Table 1: Information on the Chemicals included in Protective Action Criteria (PAC) Rev 24

PAC Rev 24 – August 2008

Table 1 presents an alphabetical listing of the chemicals in the PAC data set and provides Chemical Abstract Service Registry Numbers (CASRNs)[1] and physical constants for the listed chemicals. Information presented in this Table is derived from various sources including:

- SAX. [Lewis, R. J., Sr. (2005). *Sax's Dangerous Properties of Industrial Materials* (11th Edition). New York: John Wiley & Sons.]
- Hazardous Substances Data Bank (HSDB). The HSDB is "comprehensive, peer-reviewed toxicology data for about 5,000 chemicals" and it is accessible at http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?HSDB (August 15, 2008).
- The Handbook of Chemistry and Physics. [Lide, D. R. (Ed.). (2007). *CRC Handbook of Chemistry and Physics*. Internet Version. (87th Edition). Boca Raton, FL: Taylor and Francis. Accessible at http:/www.hbcpnetbase.com.]
- Material Safety Data Sheets (MSDSs) for individual chemicals.

Sometimes data on chemical properties varies among information sources and the table's authors have to choose which value to present. Because the table's authors are not deriving physical constants but are simply reporting key values obtained from published sources, they cannot make any claims about the accuracy of these values. Users of the table are advised to consult the referenced sources of information for additional information.

Additional information on the chemicals presented in Table 1 is provided in PAC Tables 2, 3, and 4.

Table 1, other PAC Tables, introductory material, definitions, and alternative methods of displaying PAC information are available electronically at: http://www.hss.energy.gov/HealthSafety/WSHP/chem_safety/teel.html.

Additional information on PAC values and Temporary Emergency Exposure Levels (TEELs) and links to other sources of information is provided on the Subcommittee for Consequence Assessment and Protective Action (SCAPA) web pages at: http://orise.orau.gov/emi/scapa/teels.htm.

[1] Information on the Chemical Abstract Service and CASRNs are provided at http://info.cas.org/.

The columns presented in Table 1 provide the following information (note that the information for each chemical now covers three pages):

	Heading	Definition
First Page in Table	No.	The ordered numbering of the chemicals as they appear in this alphabetical listing.
	Chemical Compound	The common name of the chemical compound.
	CAS Registry Number (CASRN)	The Chemical Abstract Services Registry Number for this chemical.
	SAX Number	The identification number provided in the SAX database for this chemical.
	Molecular Weight (MW)	The molecular weight of this chemical.
	Units of original limits	This provides the units of measure (e.g., ppm, mg/m^3) that were initially used to report PAC values.
	Toxicity conc dependent	"Concentration dependent." Indicates whether the chemical has any immediate protective action inhibiting effects (concentration dependent). "Y" indicates it does, "N" indicates it does not. This is a Temporary Emergency Exposure Limit (TEEL) development parameter that <u>is sometimes used to adjust the derived TEELs</u>.
	ppm to mg/m^3	Conversion factor to convert "parts per million" to "mg/m^3."
	Molecular Formula (MF)	The composition of elements for this chemical.
Second Page in Table	No.	The ordered numbering of the chemicals as they appear in this alphabetical listing.
	Chemical Compound	The common name of the chemical compound.
	CAS Registry Number (CASRN)	The Chemical Abstract Services Registry Number for this chemical.
	State at 25 ºC	Physical state of the chemical (S=solid, L=liquid, G=gas) at 25 ºC.
	MP or FP in ºC	The melting point/freezing point of the chemical in ºC.
	BP (ºC) @ 760 mm Hg unless indicated	The boiling point of the chemical in ºC at 760 mm Hg unless otherwise stated.
	Vapor Pressure – mm Hg	The pressure (often expressed in millimeters of mercury, mm Hg) characteristic at any given temperature of a vapor in equilibrium with its liquid or solid form.
	Vapor Pressure – T in ºC	The temperature at which the vapor pressure was measured (25 ºC assumed if not stated).
	SG @ 25 ºC	Specific Gravity (i.e., density of a substance divided by the density of water) of the chemical.
	SAX Hazard Rating	The health hazard rating of the chemical as specified in SAX.
	LEL (ppm)	The lower explosive limit.

	Heading	Definition
Third Page in Table	No.	The ordered numbering of the chemicals as they appear in this alphabetical listing.
	Chemical Compound	The common name of the chemical.
	CAS Registry Number (CASRN)	The Chemical Abstract Services Registry Number for this chemical.
	PAC-TEEL Derivation/ Review/Revision Dates – Originally derived	Values for a list of 88 chemicals were published in 1992. All other PAC-TEELs derived prior to 08/21/96 are given this date.
	PAC-TEEL Derivation/ Review/Revision Dates – Last reviewed	The date on which data or other information was checked.
	PAC-TEEL Derivation/ Review/Revision Dates – Last revised	Last revised; the date on which review of the input data required a change in the PAC-TEEL values (e.g., publication of new AEGLs).
	Source(s) of data used for PACs	A brief indication of where the data used for PAC-TEEL derivation was obtained (e.g., EPA for AEGLs).
	NFPA HHR	The National Fire Protection Association Health Hazard Rating.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1	Acacia; (Gum Arabic)	9000-01-5	AQQ500	240000	mg/m3	Y	9809.13	(Unknown)
2	Acenaphthene	83-32-9	AAF275	154.22	mg/m3	Y	6.30	C10.H6.(C.H2)2
3	Acenaphthylene	208-96-8	AAF500	152.20	mg/m3	N	6.22	C12.H8
4	**Acetaldehyde**	**75-07-0**	AAG250	44.06	ppm	Y	1.80	C2.H4O
5	Acetamide	60-35-5	AAI000	59.08	mg/m3	N	2.41	C2.H5.N.O
6	Acetanilide	103-84-4	AAQ500	135.18	mg/m3	N	5.52	C8.H9.N.O
7	**Acetic acid**	**64-19-7**	AAT250	60.06	ppm	Y	2.45	CH3..COOH
8	Acetic acid ethenyl ester, polymer with 1,1-bis(ethenyloxy) butane and ethenol	27360-07-2	N.I.S.		mg/m3	N		(C8.H14.O2..C4.H6.O2..C2H4.O(x
9	Acetic acid, 2-propenyl ester	591-87-7	AFU750	100.13	ppm	Y	4.09	C5.H8.O2
10	Acetic acid, lithium salt	546-89-4	LGO100	67.00	mg/m3	N	2.74	C2.H3.O2..Li
11	Acetic acid, manganese(2+) salt, tetrahydrate	6156-78-1	MAQ250	245.12	mg/m3	N	10.02	C4.H6.O4-Mn-4(H2.O)
12	Acetic acid, manganese(II) salt (2:1)	638-38-0	MAQ000	173.04	mg/m3	N	7.07	C4.H6.O4..Mn
13	**Acetic Anhydride**	**108-24-7**	AAX500	102.10	ppm	Y	4.17	C4.H6.O3
14	**Acetone**	**67-64-1**	ABC750	58.09	ppm	Y	2.37	CH3.CO.CH3

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1	Acacia; (Gum Arabic)	9000-01-5	S					1.4-1.5	2	
2	Acenaphthene	83-32-9	S	95	277.5	10	131.2	1.024	1	6000
3	Acenaphthylene	208-96-8	S	92-93	265-275			0.8998	2	
4	**Acetaldehyde**	**75-07-0**	L	-123.5	20.8	740	20	0.804	3	40000
5	Acetamide	60-35-5	S	81	221.2	1	65	1.159	3	36000
6	Acetanilide	103-84-4	S	113.5	305	1	114	1.2105 @ 4C	3	
7	**Acetic acid**	**64-19-7**	L	16.6	118	11.4	20	1.049	3	40000
8	Acetic acid ethenyl ester, polymer with 1,1-bis(ethenyloxy) butane and ethenol	27360-07-2	S					1.083		
9	Acetic acid, 2-propenyl ester	591-87-7								21000
10	Acetic acid, lithium salt	546-89-4	S	280-285				1.25	2	
11	Acetic acid, manganese(2+) salt, tetrahydrate	6156-78-1	S					1.59	2	
12	Acetic acid, manganese(II) salt (2:1)	638-38-0	S	210				1.74	2	
13	**Acetic Anhydride**	**108-24-7**	L	-73.1	139.55	10	36	1.082 @ 20C/4C	3	27000
14	**Acetone**	**67-64-1**	L	-94.3	56.2	180	20	1.068-1.075	2	21500

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1	Acacia; (Gum Arabic)	9000-01-5			08/21/07	RTECS	NA
2	Acenaphthene	83-32-9	01/04/99		10/15/06		NA
3	Acenaphthylene	208-96-8	09/30/97		10/15/06		2
4	**Acetaldehyde**	**75-07-0**	08/21/96	02/01/08	12/20/07	EPA	2
5	Acetamide	60-35-5	09/30/97		11/21/07	RTECS	NA
6	Acetanilide	103-84-4			10/15/06		1
7	**Acetic acid**	**64-19-7**	11/15/96		11/14/07	AIHA	3
8	Acetic acid ethenyl ester, polymer with 1,1-bis(ethenyloxy) butane and ethenol	27360-07-2			10/15/06		NA
9	Acetic acid, 2-propenyl ester	591-87-7			10/15/06		3
10	Acetic acid, lithium salt	546-89-4			10/15/06		NA
11	Acetic acid, manganese(2+) salt, tetrahydrate	6156-78-1			10/15/06		NA
12	Acetic acid, manganese(II) salt (2:1)	638-38-0			10/15/06		NA
13	**Acetic Anhydride**	**108-24-7**	08/07/98	04/03/08	04/03/08	AIHA.	3
14	**Acetone**	**67-64-1**	10/31/92	02/22/08	01/16/08	EPA	1

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
15	Acetone thiosemicarbazide	1752-30-3	TFQ250	131.22	mg/m3	N	5.36	C4.H9.N3.S
16	Acetone-d6	666-52-4	N.I.S., etc.	64.12	ppm	Y	2.62	C3.D6.O
17	**Acetonitrile**	**75-05-8**	ABE500	41.06	ppm	Y	1.68	C.H3.CN
18	Acetonitrile-d3	2206-26-0	N.I.S.	44.07	ppm	N	1.80	C2.D3.N
19	Acetophenone	98-86-2	ABH000	120.16	mg/m3	N	4.91	C8.H8.O
20	Acetoxytriphenylstannane	900-95-8	ABX250	409.07	mg/m3	N	16.72	C20.H18.O2.Sn
21	Acetyl bromide	506-96-7	ACD750	122.96	ppm	Y	5.03	Br.C2.H3.O
22	Acetyl carbinol; (Acetol (1); 1-Hydroxy-2-propanone)	116-09-6	ABC000	74.09	mg/m3	N	3.03	C3.H6.O2
23	Acetyl chloride	75-36-5	ACF750	78.50	ppm	Y	3.21	C2.H3.Cl.O
24	Acetyl triethyl citrate	77-89-4	ADD750	318.36	mg/m3	N	13.01	C14.H22.O8
25	Acetylaminofluorene, 2-	53-96-3	FDR000	223.29	mg/m3	N	9.13	C15.H13.N.O
26	Acetylaminofluorenone, 2-	3096-50-2	ABY250	237.27	mg/m3	N	9.70	C15.H11.N.O2
27	Acetylene	74-86-2	ACI750	26.04	ppm	Y	1.06	C2.H2
28	**Acrolein**	**107-02-8**	ADR000	56.07	ppm	Y	2.29	C.H2=C.H.C.H.O

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
15	Acetone thiosemicarbazide	1752-30-3	S						3	
16	Acetone-d6	666-52-4	L	-93	55.5			0.872		21500
17	**Acetonitrile**	**75-05-8**	L	-41	82	73	20	0.7868	3	30000
18	Acetonitrile-d3	2206-26-0	L		80.7			0.844		
19	Acetophenone	98-86-2	L	19.7	202.3	1	15	1.026	3	11000
20	Acetoxytriphenylstannane	900-95-8	S	122		1.9 uPa	20	1.55 @ 20C	3	
21	Acetyl bromide	506-96-7	S	-96.5	76.7	122	25	1.52 @ 9.5C	3	
22	Acetyl carbinol; (Acetol (1); 1-Hydroxy-2-propanone)	116-09-6	L	-7	145-146			1.082	2	
23	Acetyl chloride	75-36-5	L	-112	51-52			1.1051	3	
24	Acetyl triethyl citrate	77-89-4	S		214 @ 40mm			1.135	2	
25	Acetylaminofluorene, 2-	53-96-3	S						3	
26	Acetylaminofluorenone, 2-	3096-50-2	S fibers						2	
27	Acetylene	74-86-2	G	-81.8	-84	30400	16.8	0.6208 @ -82C	3	25000
28	**Acrolein**	**107-02-8**	L	-87	52.7	210	20	0.841	3	28000

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
15	Acetone thiosemicarbazide	1752-30-3			10/15/06		1
16	Acetone-d6	666-52-4	04/15/07	02/22/08	02/22/08	ChemFinder	NA
17	**Acetonitrile**	**75-05-8**	08/21/96	02/01/08	11/14/07	EPA	2
18	Acetonitrile-d3	2206-26-0	04/15/07		04/20/07		NA
19	Acetophenone	98-86-2	08/21/96		10/15/06		2
20	Acetoxytriphenylstannane	900-95-8			10/15/06		NA
21	Acetyl bromide	506-96-7			10/15/06		NA
22	Acetyl carbinol; (Acetol (1); 1-Hydroxy-2-propanone)	116-09-6			04/20/07		NA
23	Acetyl chloride	75-36-5	08/21/96		10/15/06		3
24	Acetyl triethyl citrate	77-89-4			04/20/07		NA
25	Acetylaminofluorene, 2-	53-96-3	09/30/97		10/15/06		NA
26	Acetylaminofluorenone, 2-	3096-50-2			10/15/06		NA
27	Acetylene	74-86-2			10/15/06		0
28	**Acrolein**	**107-02-8**	10/31/92	02/01/08	11/14/07	GOEV, EPA	4

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
29	Acrylamide	79-06-1	ADS250	71.09	mg/m3	Y	2.91	C3.H5.N.O
30	Acrylamide, N,N'-methylenebisacrylamide copolymer	25034-58-6	N.I.S.	154.19	mg/m3	N	6.30	(-C7.H10.N2.O2. C3.H5.N.O)x
31	**Acrylic acid**	**79-10-7**	ADS750	72.07	ppm	Y	2.95	H2.C=CH.C.O.O.H
32	Acrylic acid polymers; (Acrylic polymer or resin)	9003-01-4	ADW200	168.06	mg/m3	N	6.87	(C3.H4.O2)4
33	**Acrylonitrile**	**107-13-1**	ADX500	53.07	ppm	Y	2.17	C.H2=C.H.C.N
34	Acrylyl chloride; (Acryloyl chloride)	814-68-6	ADZ000	90.51	ppm	N	3.70	C3.H3.Cl.O
35	**Adamsite; (Phenarsine chloride)**	**578-94-9**	PDB000	277.59	mg/m3	Y	11.35	C12.H9.As.Cl.N
36	Adipic acid	124-04-9	AEN250	146.16	mg/m3	Y	5.97	C6.H10.O4
37	Adipic acid-TDI	68609-57-4	N.I.S.		mg/m3	N		(C9.H6.N2,O2..C8.H4.O3..C6.H14.O3..C6.H10.O4..C4.H10.O3)x
38	Adiponitrile	111-69-3	AER250	108.16	ppm	N	4.42	C6.H8.N2
39	Aerosol, A-102; (Poly(oxy-1,2-ethanediyl), alpha-(3-carboxy-1-oxo-3-sulfopropyl)-omega-(dodecyloxy)-, -disodium salt)	39354-45-5	N.I.S.		mg/m3	N		(C2.H4.O)n..C16.H30.O7.2..2Na
40	Agar	9002-18-0	AEX250		mg/m3	N		[Unknown]
41	Agarose, type VII (low gelling temperature)	9012-36-6	N.I.S.		mg/m3	N		[Unknown]
42	Alamine 336	68814-95-9	AHP765		mg/m3	N		[Unknown]

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
29	Acrylamide	79-06-1	S	84.5	125 @ 25 mm	1.6	84.5	1.122	3	
30	Acrylamide, N,N'-methylenebisacrylamide copolymer	25034-58-6	S	185 dec				1.235 @ 30C		
31	**Acrylic acid**	**79-10-7**	L	12.1	140.9	3.1	20	1.062	3	24000
32	Acrylic acid polymers; (Acrylic polymer or resin)	9003-01-4	S						3	
33	**Acrylonitrile**	**107-13-1**	L	-83	77.3	83	20	0.806	3	30000
34	Acrylyl chloride; (Acryloyl chloride)	814-68-6	L		75	300	25		3	
35	**Adamsite; (Phenarsine chloride)**	**578-94-9**	S	195	410			1.65	3	
36	Adipic acid	124-04-9	S	152	337.5	1	159.5	1.360 @ 25C	3	16000
37	Adipic acid-TDI	68609-57-4	S							
38	Adiponitrile	111-69-3	L	2.3	295	0.00068	25	0.965 @ 20C	3	10000
39	Aerosol, A-102; (Poly(oxy-1,2-ethanediyl), alpha-(3-carboxy-1-oxo-3-sulfopropyl)-omega-(dodecyloxy)-, -disodium salt)	39354-45-5	L					1		
40	Agar	9002-18-0	S						1	
41	Agarose, type VII (low gelling temperature)	9012-36-6	S	260						
42	Alamine 336	68814-95-9	L						2	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
29	Acrylamide	79-06-1	08/21/96		10/15/06		2
30	Acrylamide, N,N'-methylenebisacrylamide copolymer	25034-58-6		03/10/08		TSCA	NA
31	**Acrylic acid**	**79-10-7**	10/31/92	02/01/08	11/14/07	EPA	3
32	Acrylic acid polymers; (Acrylic polymer or resin)	9003-01-4	08/07/98		10/15/06		NA
33	**Acrylonitrile**	**107-13-1**	10/31/92		11/14/07	GOEV, AIHA	4
34	Acrylyl chloride; (Acryloyl chloride)	814-68-6			10/15/06		NA
35	**Adamsite; (Phenarsine chloride)**	**578-94-9**	12/28/07	07/18/08	12/31/07	EPA, SAX, RTECS	
36	Adipic acid	124-04-9			10/15/06		1
37	Adipic acid-TDI	68609-57-4	06/26/07		06/26/07	TSCA	NA
38	Adiponitrile	111-69-3			10/15/06		3
39	Aerosol, A-102; (Poly(oxy-1,2-ethanediyl), alpha-(3-carboxy-1-oxo-3-sulfopropyl)-omega-(dodecyloxy)-, -disodium salt)	39354-45-5			04/20/07		NA
40	Agar	9002-18-0			10/15/06		NA
41	Agarose, type VII (low gelling temperature)	9012-36-6			10/15/06		NA
42	Alamine 336	68814-95-9			10/15/06		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
43	Albumin (bovine)	9048-46-8	N.I.S.	65000.00	mg/m3	N	2656.64	[Unknown]
44	Alcohol oxidase	9073-63-6	N.I.S.		mg/m3	N		[Unknown]
45	Alcohols, C6-C12 (N.O.S.)	68603-15-6	AFJ250		mg/m3	N		Cn.H2n.+1OH
46	Aldrin; (1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,8a-hexahydro-1,4-endo,exo-5,8-dimethanonaphthalene)	309-00-2	AFK250	364.90	mg/m3	N	14.91	C12.H8.Cl6
47	Aldrithiol-2: (2,2'-Dithiodipyridene)	2127-03-9	N.I.S. etc.	220.31	mg/m3	N	9.00	C10.H.8.N2.S2
48	Aliquat 336; (Adogen 464; Quaternary ammonium compounds, tri(C8-10)-alkylmethyl-, chlorides)	63393-96-4	QAT565		mg/m3	N		[Unknown]
49	Alizarin; (1,2-Dihydroxyanthraquinone; Turkey red oil)	72-48-0	DMG800	240.22	mg/m3	N	9.82	C14.H8.O4
50	Alizarine Red S, Monohydrate; (Sodium alizarin-3-sulfonate)	130-22-3	SEH475	342.26	mg/m3	N	13.99	C14.H7.O7.S..Na
51	Alkanes, C4-12-	68333-81-3	N.I.S.	114.00	ppm	N	4.66	[Unspecified]
52	Alkenyl dimethylethyl ammonium bromide; (Aliphatic hydrocarbon)	z-0108	AFN750		mg/m3	N		[Unknown]
53	Alkyl benzenes (C8-C9)	z-0109	N.I.S.		mg/m3	N		[Unspecified]
54	Alkyl dimethylbenzyl ammonium chloride; (Benzalkonium chloride)	8001-54-5	AFP250		mg/m3	Y		(Unknown)
55	Alkylamines	63231-48-1	N.I.S.		mg/m3	N		[Unspecified]
56	Alkylbenzene (C10-C16)	68648-87-3	N.I.S.		mg/m3	N		[Unspecified]

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
43	Albumin (bovine)	9048-46-8	L							
44	Alcohol oxidase	9073-63-6								
45	Alcohols, C6-C12 (N.O.S.)	68603-15-6	L						3	
46	Aldrin; (1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,8a-hexahydro-1,4-endo,exo-5,8-dimethanonaphthalene)	309-00-2	S	104					3	
47	Aldrithiol-2: (2,2'-Dithiodipyridene)	2127-03-9	S	56-60						
48	Aliquat 336; (Adogen 464; Quaternary ammonium compounds, tri(C8-10)-alkylmethyl-, chlorides)	63393-96-4							2	
49	Alizarin; (1,2-Dihydroxyanthraquinone; Turkey red oil)	72-48-0	S	289	430				3	
50	Alizarine Red S, Monohydrate; (Sodium alizarin-3-sulfonate)	130-22-3	S						3	
51	Alkanes, C4-12-	68333-81-3								8800
52	Alkenyl dimethylethyl ammonium bromide; (Aliphatic hydrocarbon)	z-0108							3	
53	Alkyl benzenes (C8-C9)	z-0109							2	
54	Alkyl dimethylbenzyl ammonium chloride; (Benzalkonium chloride)	8001-54-5	S	34.37				0.9884 @ 20C	3	
55	Alkylamines	63231-48-1							3	
56	Alkylbenzene (C10-C16)	68648-87-3	S						1	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
43	Albumin (bovine)	9048-46-8			10/15/06		NA
44	Alcohol oxidase	9073-63-6			10/15/06		NA
45	Alcohols, C6-C12 (N.O.S.)	68603-15-6	07/09/97		10/15/06		NA
46	Aldrin; (1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,8a-hexahydro-1,4-endo,exo-5,8-dimethanonaphthalene)	309-00-2	08/21/96		11/13/07	GOEV, RTECS	NA
47	Aldrithiol-2: (2,2'-Dithiodipyridene)	2127-03-9			10/15/06		NA
48	Aliquat 336; (Adogen 464; Quaternary ammonium compounds, tri(C8-10)-alkylmethyl-, chlorides)	63393-96-4	01/04/99		10/15/06		NA
49	Alizarin; (1,2-Dihydroxyanthraquinone; Turkey red oil)	72-48-0			04/20/07		NA
50	Alizarine Red S, Monohydrate; (Sodium alizarin-3-sulfonate)	130-22-3			04/20/07		NA
51	Alkanes, C4-12-	68333-81-3			10/15/06		NA
52	Alkenyl dimethylethyl ammonium bromide; (Aliphatic hydrocarbon)	z-0108	09/30/97		10/15/06		
53	Alkyl benzenes (C8-C9)	z-0109			10/15/06		
54	Alkyl dimethylbenzyl ammonium chloride; (Benzalkonium chloride)	8001-54-5			10/15/06		NA
55	Alkylamines	63231-48-1	07/09/97		08/26/07	PNOS	NA
56	Alkylbenzene (C10-C16)	68648-87-3	08/07/98		10/15/06		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
57	Allene; (1,2-Propadiene)	463-49-0	AFR000	40.06	ppm	N	1.64	H2.C:C:C.H2
58	**Allyl alcohol**	**107-18-6**	AFV500	58.09	ppm	Y	2.37	C.H2=C.H2.0.H
59	Allyl Bromide; (3-Bromopropene)	106-95-6	AFY000	120.99	ppm	N	4.95	C3.H5.Br
60	**Allyl chloride**	**107-05-1**	AGB250	76.53	ppm	Y	3.13	C.H2=C.H.C.H2.Cl
61	**Allyl chlorocarbonate**	**2937-50-0**	AGB500	120.54	ppm	Y	4.93	C4.H5.Cl.O2
62	Allyl isothiocyanate; (Mustard oil)	57-06-7	AGJ250	99.16	ppm	Y	4.05	C4.H5.N.S.
63	**Allylamine**	**107-11-9**	AFW000	57.11	ppm	Y	2.33	C3.H7.N
64	Allylmagnesium bromide	1730-25-2	N.I.S., etc.	145.28	mg/m3	N	5.94	C3.H5.Br.Mg
65	**Allyltrichlorosilane**	**107-37-9**	AGU250	175.52	ppm	N	7.17	C3.H5.Cl3.Si
66	Alpha,alpha,4-trimethyl-3-cyclohexene-1-methanol, (S)-; (alpha-Terpineol)	10482-56-1	TBD750	154.28	mg/m3	N	6.31	C10.H18.O
67	Alpha-hydroxybenzeneacetic acid, (+-)-; (DL-mandelic acid)	611-72-3	N.I.S.	152.15	mg/m3	N	6.22	C8.H8.O3
68	Aluminon	569-58-4	AGW750	473.48	mg/m3	N	19.35	C22.H23.N3.O9
69	Aluminum	7429-90-5	AGX000	26.98	mg/m3	N	1.10	Al
70	Aluminum acetate, basic	7360-44-3	N.I.S.	120.04	mg/m3	N	4.91	C2.H5.Al.O4

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
57	Allene; (1,2-Propadiene)	463-49-0	G	-146	-32			1.787	3	21000
58	**Allyl alcohol**	**107-18-6**	L	-129	96.9	17	20	0.854	3	25000
59	Allyl Bromide; (3-Bromopropene)	106-95-6	L	-119	71.3			1.3980 @ 20C	3	43000
60	**Allyl chloride**	**107-05-1**	L	-134	45	295	20	0.938	3	29000
61	**Allyl chlorocarbonate**	**2937-50-0**	L	-80	109.5	20	25	1.136	3	
62	Allyl isothiocyanate; (Mustard oil)	57-06-7	L	-80	150.7	10	38.3	1.105 @ 15C	3	
63	**Allylamine**	**107-11-9**	L		65.8-58			0.761	3	22000
64	Allylmagnesium bromide	1730-25-2	S							
65	**Allyltrichlorosilane**	**107-37-9**	S/L	35	117.5	53.0	47.5	1.2011 @ 20C	3	
66	Alpha,alpha,4-trimethyl-3-cyclohexene-1-methanol, (S)-; (alpha-Terpineol)	10482-56-1	S	40.5	220			0.9337 @ 20C		
67	Alpha-hydroxybenzeneacetic acid, (+-)-; (DL-mandelic acid)	611-72-3	S	119-121				1.3	3	
68	Aluminon	569-58-4	S	220.5	dec				1	
69	Aluminum	7429-90-5	S	660	2494	1	1284	2.702	3	
70	Aluminum acetate, basic	7360-44-3	S							

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
57	Allene; (1,2-Propadiene)	463-49-0			10/15/06		NA
58	**Allyl alcohol**	**107-18-6**	08/21/96	02/01/08	08/08/07	GOEV, EPA	4
59	Allyl Bromide; (3-Bromopropene)	106-95-6			10/15/06		3
60	**Allyl chloride**	**107-05-1**	10/31/92		06/27/08	GOEV, EPA.	3
61	**Allyl chlorocarbonate**	**2937-50-0**	04/15/07	07/18/08	06/30/08	EPA.	4
62	Allyl isothiocyanate; (Mustard oil)	57-06-7	04/15/07		04/20/07		3
63	**Allylamine**	**107-11-9**	03/01/00	02/01/08	12/20/07	EPA	4
64	Allylmagnesium bromide	1730-25-2	04/15/07		04/20/07		NA
65	**Allyltrichlorosilane**	**107-37-9**	07/02/08	07/07/08	07/02/08	EPA, HSDB.	3
66	Alpha,alpha,4-trimethyl-3-cyclohexene-1-methanol, (S)-; (alpha-Terpineol)	10482-56-1			10/15/06		NA
67	Alpha-hydroxybenzeneacetic acid, (+-)-; (DL-mandelic acid)	611-72-3			10/15/06		NA
68	Aluminon	569-58-4	08/07/98		10/15/06		NA
69	Aluminum	7429-90-5	09/30/97		10/15/06		NA
70	Aluminum acetate, basic	7360-44-3			10/15/06		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
71	Aluminum carbide	1299-86-1	AGY250	143.96	mg/m3	N	5.88	Al4.C3
72	Aluminum chloride	7446-70-0	AGY750	133.33	mg/m3	Y	5.45	Al.Cl3
73	Aluminum chloride hexahydrate	7784-13-6	AGZ000	241.45	mg/m3	Y	9.87	Al.Cl3..6 H2.O
74	Aluminum fluoride	7784-18-1	AHB000	83.98	mg/m3	Y	3.43	Al.F3
75	Aluminum grey LB; (Acid black 60)	12218-95-0	N.I.S.	877.85	mg/m3	N	35.88	C38.H32.Cr.N8.O19.S2..H
76	Aluminum hexafluorosilicate	17099-70-6	AHB400	480.23	mg/m3	N	19.63	F18.Si3.2Al
77	Aluminum hydroxide	21645-51-2	AHC000	78.01	mg/m3	N	3.19	Al.H3.O3
78	Aluminum oxide hydrate	1333-84-2	N.I.S. etc.	137.99	mg/m3	N	5.64	Al.O3..x(H2.O)
79	Aluminum oxide; (Alumina)	1344-28-1	AHE250	101.96	mg/m3	N	4.17	Al2.O3
80	Aluminum phosphate; (Phosphoric acid, aluminum salt (1:1), solution)	7784-30-7	PHB500	121.95	mg/m3	Y	4.98	Al.P.O4
81	**Aluminum phosphide**	**20859-73-8**	AHE750	57.95	ppm	Y	2.37	Al.P
82	Aluminum potassium sulfate	10043-67-1	AHF100	258.20	mg/m3	N	10.55	Al.K.(S.O4)2
83	Aluminum potassium sulfate, dodecahydrate	7784-24-9	AHF200	474.39	mg/m3	N	19.39	Al.K (S.O4)2.12 H2.O
84	Aluminum sulfate	10043-01-3	AHG750	342.14	mg/m3	N	13.98	Al2.(S.O4)3

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
71	Aluminum carbide	1299-86-1	S	2100	2200 dec			2.36		
72	Aluminum chloride	7446-70-0	S	192 @ 2.5 atm	181	1	100	2.44	3	
73	Aluminum chloride hexahydrate	7784-13-6	S	100 dec	182.7	1	100	2.44	2	
74	Aluminum fluoride	7784-18-1	S	1291	1260 subl	1	1238	2.88	3	
75	Aluminum grey LB; (Acid black 60)	12218-95-0	S							
76	Aluminum hexafluorosilicate	17099-70-6	S	>500 dec					1	
77	Aluminum hydroxide	21645-51-2	S	300 dec				2.42	3	
78	Aluminum oxide hydrate	1333-84-2	S	loses H2O					3	
79	Aluminum oxide; (Alumina)	1344-28-1	S	2030	2980	~0	20	3.5-4.0	2	
80	Aluminum phosphate; (Phosphoric acid, aluminum salt (1:1), solution)	7784-30-7	L						2	
81	**Aluminum phosphide**	**20859-73-8**	S	>1000				2.85 @ 15C	3	
82	Aluminum potassium sulfate	10043-67-1	S	92				1.75	1	
83	Aluminum potassium sulfate, dodecahydrate	7784-24-9	S	105				1.72	D	
84	Aluminum sulfate	10043-01-3	S	770 dec				2.71	2	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
71	Aluminum carbide	1299-86-1			10/15/06		NA
72	Aluminum chloride	7446-70-0	08/07/98		10/15/06		3
73	Aluminum chloride hexahydrate	7784-13-6			10/15/06		NA
74	Aluminum fluoride	7784-18-1	09/30/97		10/15/06		NA
75	Aluminum grey LB; (Acid black 60)	12218-95-0			10/15/06		NA
76	Aluminum hexafluorosilicate	17099-70-6	05/15/07		05/15/07	NIOSH	NA
77	Aluminum hydroxide	21645-51-2	09/30/97		10/15/06		NA
78	Aluminum oxide hydrate	1333-84-2			10/15/06		NA
79	Aluminum oxide; (Alumina)	1344-28-1	10/31/92		10/15/06		NA
80	Aluminum phosphate; (Phosphoric acid, aluminum salt (1:1), solution)	7784-30-7	08/07/98		10/15/06		NA
81	**Aluminum phosphide**	**20859-73-8**		07/19/08	01/03/08	GOEV. EPA	4
82	Aluminum potassium sulfate	10043-67-1	08/07/98		10/15/06		NA
83	Aluminum potassium sulfate, dodecahydrate	7784-24-9			10/15/06		NA
84	Aluminum sulfate	10043-01-3	07/09/97		10/15/06		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
85	Aluminum tris(dihydrogen phosphate); (Phosphoric acid, aluminum salt (3:1)	13530-50-2	N.I.S.	320.97	mg/m3	N	13.12	Al..3(H3.O4.P)
86	Aluminum yellow 4A; (Acid yellow 99)	10343-58-5	N.I.S.	496.40	mg/m3	N	20.29	C16.H12.Cr.N4.O9.S .Na
87	Aluminum(III) isopropylate	555-31-7	AHC600	204.28	mg/m3	N	8.35	C9.H21.O3..Al
88	Aluminum(III) nitrate (1:3)	13473-90-0	AHD750	213.01	mg/m3	Y	8.71	Al.(N.O3)3
89	Aluminum(III) nitrate nonahydrate (1:3:9)	7784-27-2	AHD900	375.19	mg/m3	Y	15.33	Al.(N.O3)3..9 H2.O
90	Aluminum(III) silicate (2:1); (Kyanite; Oil-dri)	1302-76-7	AHF500	162.05	mg/m3	N	6.62	2Al.Si.O5
91	Amberlite IR-120(PLUS) ion-exchange resin	78922-04-0	N.I.S. etc.		mg/m3	N		(Unknown)
92	Amberlite IR-120plus ion-exchange resin, sodium form; (Cation exchange resin)	9002-23-7	N.I.S. etc.		mg/m3	Y		(Unknown)
93	Amberlite IRA-400(Cl); (Amberlite IRA-400, ion-exchange resin)	9002-24-8	N.I.S.		mg/m3	N		(Unknown)
94	Amberlite IRA-400(CL); (Ion exchange resin)	122560-63-8	N.I.S. etc.		mg/m3	N		(Unknown)
95	Amberlite MB-1 ion-exchange resin; (Amberlite MB-150)	100915-96-6	N.I.S. etc.		mg/m3	N		(Unknown)
96	Amberlite XAD-16, -7, -4 resin	104219-63-8	N.I.S. etc.		mg/m3	N		(Unknown)
97	Amberlite XAD-2 resin, purified	9060-05-3	N.I.S. etc.		mg/m3	N		(Unknown)
98	Amberlite XAD-7HP	37380-43-1	N.I.S.		mg/m3	N		(Unknown)

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
85	Aluminum tris(dihydrogen phosphate); (Phosphoric acid, aluminum salt (3:1)	13530-50-2	S							
86	Aluminum yellow 4A; (Acid yellow 99)	10343-58-5	S							
87	Aluminum(III) isopropylate	555-31-7	S		125 @ 10 mm			1.025 @ 20C	1	
88	Aluminum(III) nitrate (1:3)	13473-90-0	S	73	150 dec				3	
89	Aluminum(III) nitrate nonahydrate (1:3:9)	7784-27-2	S	73.5	150 dec				2	
90	Aluminum(III) silicate (2:1); (Kyanite; Oil-dri)	1302-76-7	S						2	
91	Amberlite IR-120(PLUS) ion-exchange resin	78922-04-0	S							
92	Amberlite IR-120plus ion-exchange resin, sodium form; (Cation exchange resin)	9002-23-7	S			17	20			
93	Amberlite IRA-400(Cl); (Amberlite IRA-400, ion-exchange resin)	9002-24-8	S			17	20			
94	Amberlite IRA-400(CL); (Ion exchange resin)	122560-63-8	S							
95	Amberlite MB-1 ion-exchange resin; (Amberlite MB-150)	100915-96-6	S							
96	Amberlite XAD-16, -7, -4 resin	104219-63-8	S							
97	Amberlite XAD-2 resin, purified	9060-05-3	S							
98	Amberlite XAD-7HP	37380-43-1	S					0.656		

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
85	Aluminum tris(dihydrogen phosphate); (Phosphoric acid, aluminum salt (3:1)	13530-50-2			10/15/06		NA
86	Aluminum yellow 4A; (Acid yellow 99)	10343-58-5			10/15/06		NA
87	Aluminum(III) isopropylate	555-31-7			10/15/06		NA
88	Aluminum(III) nitrate (1:3)	13473-90-0	09/30/97		10/15/06		NA
89	Aluminum(III) nitrate nonahydrate (1:3:9)	7784-27-2	01/04/99		10/15/06		NA
90	Aluminum(III) silicate (2:1); (Kyanite; Oil-dri)	1302-76-7	09/30/97		10/15/06		NA
91	Amberlite IR-120(PLUS) ion-exchange resin	78922-04-0			10/15/06		NA
92	Amberlite IR-120plus ion-exchange resin, sodium form; (Cation exchange resin)	9002-23-7			10/15/06		NA
93	Amberlite IRA-400(CI); (Amberlite IRA-400, ion-exchange resin)	9002-24-8			10/15/06		NA
94	Amberlite IRA-400(CL); (Ion exchange resin)	122560-63-8			10/15/06		NA
95	Amberlite MB-1 ion-exchange resin; (Amberlite MB-150)	100915-96-6			10/15/06		NA
96	Amberlite XAD-16, -7, -4 resin	104219-63-8			10/15/06		NA
97	Amberlite XAD-2 resin, purified	9060-05-3			10/15/06		NA
98	Amberlite XAD-7HP	37380-43-1			10/15/06		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
99	Amberlyst 15 ion-exchange resin	9037-24-5	N.I.S.etc.		mg/m3	N		(Unknown)
100	Amino-1,3-naphthalenedisulfonic acid, 7-	86-65-7	NBE850	303.32	mg/m3	N	12.40	C10.H9.N.O6.S2
101	Amino-1-propanol, 3-	156-87-6	PMM250	75.13	mg/m3	Y	3.07	C3.H9.N.O
102	Amino-2-(hydroxymethyl)-1,3-propanediol, 2-, acetate salt; (Trizma acetate)	6850-28-8	N.I.S.	181.19	mg/m3	N	7.41	C4.H11.N.O3-C2.H4.O2
103	Amino-2-methyl-2-propanol, 1-	2854-16-2	ALB250	89.16	mg/m3	N	3.64	C4.H11.N.O
104	Amino-4,6-dinitrotoluene, 2-	35572-78-2	AJR750	197.17	mg/m3	N	8.06	C7.H7.N3.O4
105	Aminoacetaldehyde diethyl acetal; (2,2-diethoxyethylamine)	645-36-3	N.I.S.	133.19	mg/m3	N	5.44	N.H2.C.H2.C.H.(O.C2.H5)2
106	Aminoacetaldehyde dimethyl acetal; (2,2-dimethoxyethylamine)	22483-09-6	N.I.S.	1056.14	mg/m3	N	43.17	C4.H11.N.O2
107	Aminoanthraquinone, 2-	117-79-3	AIB000	223.24	mg/m3	N	9.12	C14.H9.N.O2
108	Aminobenzoic acid, p-	150-13-0	AIH600	137.15	mg/m3	N	5.61	C7.H7.N.O2
109	Aminobutyl)diethoxymethylsilane, (4-	3037-72-7	AJA750	205.42	mg/m3	Y	8.40	C9.H23.N.O2.Si
110	Aminodiphenyl, p-	92-67-1	AJS100	169.24	mg/m3	N	6.92	C12.H11.N
111	Aminoethoxy)ethanol, 2(2-	929-06-6	AJU250	105.16	mg/m3	Y	4.30	C4.H11.N.O2
112	Aminoethyl)diphenylborinic acid, o-(2-	524-95-8	N.I.S.	225.12	mg/m3	N	9.20	C14.H16.B.N.O

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
99	Amberlyst 15 ion-exchange resin	9037-24-5	S							
100	Amino-1,3-naphthalenedisulfonic acid, 7-	86-65-7	S						2	
101	Amino-1-propanol, 3-	156-87-6	L	12.4	168	2.1	60	0.9786 @ 30C	2	
102	Amino-2-(hydroxymethyl)-1,3-propanediol, 2-, acetate salt; (Trizma acetate)	6850-28-8	S							
103	Amino-2-methyl-2-propanol, 1-	2854-16-2	L		151			0.929	2	
104	Amino-4,6-dinitrotoluene, 2-	35572-78-2	S						2	
105	Aminoacetaldehyde diethyl acetal; (2,2-diethoxyethylamine)	645-36-3	L	-78	160-163			0.916		
106	Aminoacetaldehyde dimethyl acetal; (2,2-dimethoxyethylamine)	22483-09-6	L		135-138			0.975		
107	Aminoanthraquinone, 2-	117-79-3	L	302-306	subl				3	
108	Aminobenzoic acid, p-	150-13-0	S	188.5		0.00028	25	1.374	2	
109	Aminobutyl)diethoxymethylsilane, (4-	3037-72-7	L		220	0.06	25		3	
110	Aminodiphenyl, p-	92-67-1	S	53	302			1.16	3	
111	Aminoethoxy)ethanol, 2(2-	929-06-6	L	-12.5	221			1.0572 @ 20C	2	
112	Aminoethyl)diphenylborinic acid, o-(2-	524-95-8								

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
99	Amberlyst 15 ion-exchange resin	9037-24-5			10/15/06		NA
100	Amino-1,3-naphthalenedisulfonic acid, 7-	86-65-7	08/07/98		10/15/06		NA
101	Amino-1-propanol, 3-	156-87-6			10/15/06		3
102	Amino-2-(hydroxymethyl)-1,3-propanediol, 2-, acetate salt; (Trizma acetate)	6850-28-8			10/15/06		NA
103	Amino-2-methyl-2-propanol, 1-	2854-16-2	09/30/97		10/15/06		NA
104	Amino-4,6-dinitrotoluene, 2-	35572-78-2	08/07/98		10/15/06		NA
105	Aminoacetaldehyde diethyl acetal; (2,2-diethoxyethylamine)	645-36-3			04/20/07		NA
106	Aminoacetaldehyde dimethyl acetal; (2,2-dimethoxyethylamine)	22483-09-6			04/20/07		NA
107	Aminoanthraquinone, 2-	117-79-3			10/15/06		NA
108	Aminobenzoic acid, p-	150-13-0			04/20/07		NA
109	Aminobutyl)diethoxymethylsilane, (4-	3037-72-7			10/15/06		3
110	Aminodiphenyl, p-	92-67-1	09/30/97		10/15/06		NA
111	Aminoethoxy)ethanol, 2(2-	929-06-6	06/22/07		06/22/07	RTECS	NA
112	Aminoethyl)diphenylborinic acid, o-(2-	524-95-8			04/20/07		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
113	Aminoethylethanolamine	111-41-1	AJW000	104.18	mg/m3	Y	4.26	C4.H12.N2.O
114	Aminoethylpiperazine, N-	140-31-8	AKB000	129.24	mg/m3	Y	5.28	C6.H15.N3
115	Aminoheptane, 3-; (3-Heptylamine)	28292-42-4	HBM500	115.25	ppm	Y	4.71	C7.H17.N
116	Aminoiminomethyl)urea sulfate(2:1), (	591-01-5	N.I.S. etc.	302.26	mg/m3	N	12.35	C4.H14.N8.O6.S
117	Aminophenol, 2-; (Aminophenol, o-)	95-55-6	ALT000	109.14	mg/m3	Y	4.46	C7.H7.N.O
118	Aminophenol, m-	591-27-5	ALS990	109.14	mg/m3	Y	4.46	C6.H7.N.O
119	Aminopropiophenone, 4-	70-69-9	AMC000	149.21	mg/m3	N	6.10	C9.H11.N.O
120	Aminopropylmethyldiethoxysilane, 3-	3179-76-8	AME000	191.39	mg/m3	N	7.82	C8.H21.N.O2.Si
121	Aminopropyltriehoxysilane; (3-(Triethoxysilyl)-1-propanamine)	919-30-2	TJN000	221.42	mg/m3	Y	9.05	C9.H23.N.O3.Si
122	Aminopterin; (Aminopteridine)	54-62-6	AMG750	440.47	mg/m3	N	18.00	C19.H20.N8.O5
123	Aminopyrazine	5049-61-6	N.I.S. etc.	95.00	ppm	N	3.88	[Unknown]
124	Aminopyridine, 4-; (4-Pyridinamine)	504-24-5	AMI500	94.13	mg/m3	N	3.85	C5.H6.N2
125	Amiton oxalate	3734-97-2	AMX825	359.42	mg/m3	N	14.69	C10.H24..NO3..P.S..C2.H2.O4
126	Amiton; (O,O-Diethyl-S-(2-diethylaminoethyl) thiophosphate)	78-53-5	DJA400	269.38	mg/m3	N	11.01	C10.H24..NO3..P.S

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
113	Aminoethylethanolamine	111-41-1	L		243.7	<0.01	20	1.0304 @ 20C	2	10000
114	Aminoethylpiperazine, N-	140-31-8	L	-19	220.4			0.9852	3	
115	Aminoheptane, 3-; (3-Heptylamine)	28292-42-4								
116	Aminoiminomethyl)urea sulfate(2:1), (	591-01-5	S	190				1.61		
117	Aminophenol, 2-; (Aminophenol, o-)	95-55-6	S	173					3	
118	Aminophenol, m-	591-27-5	S	123	164			1.195	3	
119	Aminopropiophenone, 4-	70-69-9	S	140					3	
120	Aminopropylmethyldiethoxysilane, 3-	3179-76-8	L		197-199	2.25	55	0.916	3	
121	Aminopropyltriehoxysilane; (3-(Triethoxysilyl)-1-propanamine)	919-30-2	L		217			0.94 @ 20C	3	
122	Aminopterin; (Aminopteridine)	54-62-6	L/S						3	
123	Aminopyrazine	5049-61-6								
124	Aminopyridine, 4-; (4-Pyridinamine)	504-24-5	S	158	273				3	
125	Amiton oxalate	3734-97-2	S	98-99	110 @ 0.2 mm	0.01	80		3	
126	Amiton; (O,O-Diethyl-S-(2-diethylaminoethyl) thiophosphate)	78-53-5	L		110 @ 0.2 mm	0.01	80		3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
113	Aminoethylethanolamine	111-41-1	06/26/07		06/26/07	RTECS	3
114	Aminoethylpiperazine, N-	140-31-8	07/09/97		10/15/06		2
115	Aminoheptane, 3-; (3-Heptylamine)	28292-42-4			10/15/06		NA
116	Aminoiminomethyl)urea sulfate(2:1), (	591-01-5			10/15/06		NA
117	Aminophenol, 2-; (Aminophenol, o-)	95-55-6	08/07/98		10/15/06		NA
118	Aminophenol, m-	591-27-5			10/15/06		NA
119	Aminopropiophenone, 4-	70-69-9			10/15/06		NA
120	Aminopropylmethyldiethoxysilane, 3-	3179-76-8			04/20/07		NA
121	Aminopropyltriehoxysilane; (3-(Triethoxysilyl)-1-propanamine)	919-30-2	05/19/07		11/09/07	RTECS.	NA
122	Aminopterin; (Aminopteridine)	54-62-6			10/15/06		NA
123	Aminopyrazine	5049-61-6			10/15/06		NA
124	Aminopyridine, 4-; (4-Pyridinamine)	504-24-5			10/15/06		NA
125	Amiton oxalate	3734-97-2			10/15/06		NA
126	Amiton; (O,O-Diethyl-S-(2-diethylaminoethyl) thiophosphate)	78-53-5			10/15/06		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
127	Amitrole	61-82-5	AMY050	84.10	mg/m3	N	3.44	C2.H4.N4
128	**Ammonia**	**7664-41-7**	AMY500	17.04	ppm	Y	0.70	N.H3
129	Ammonia-d3	13550-49-7	N.I.S. etc.	20.05	ppm	N	0.82	D3.N
130	Ammonium acetate	631-61-8	ANA000	77.10	mg/m3	N	3.15	C2.H4.O2..N.H3
131	Ammonium aluminum fluoride; (Triammonium hexafluoroaluminate)	7784-19-2	THQ500	195.13	mg/m3	Y	7.98	Al.F6..3(NH4)
132	Ammonium benzoate	1863-63-4	ANB100	139.17	mg/m3	N	5.69	C7.H5.O2..NH4
133	Ammonium bicarbonate	1066-33-7	ANB250	79.10	mg/m3	N	3.23	H.CO3..NH4
134	Ammonium bisulfate; (Ammonium hydrogen sulfate)	7803-63-6	ANJ500	115.11	mg/m3	Y	4.70	NH4.HSO4
135	Ammonium bisulfite; (Ammonium hydrogen sulfite)	10192-30-0	ANB600	99.12	mg/m3	Y	4.05	H3N.H2O3.S
136	Ammonium bromide	12124-97-9	ANC250	97.96	mg/m3	N	4.00	Br.H4.N
137	Ammonium carbamate; (Carbamic acid, ammonium salt)	1111-78-0	AND750	78.09	mg/m3	N	3.19	C.H3..N.O2..N.H3
138	Ammonium carbonate	506-87-6	ANB250	96.11	mg/m3	N	3.93	H.C.O3..N.H4
139	Ammonium chloride	12125-02-9	ANE500	53.50	mg/m3	Y	2.19	N.H4..Cl
140	Ammonium chromate	7788-98-9	ANF500 NCQ550	152.10	mg/m3	Y	6.22	(N.H4)2..Cr.O4

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
127	Amitrole	61-82-5	S	156-159					3	
128	**Ammonia**	**7664-41-7**	G	-77.7	-33.3	7510	35	0.9	3	150000
129	Ammonia-d3	13550-49-7	G							
130	Ammonium acetate	631-61-8	S	114				1.07	3	
131	Ammonium aluminum fluoride; (Triammonium hexafluoroaluminate)	7784-19-2	S						3	
132	Ammonium benzoate	1863-63-4	S	198 decom	160 sublms			1.26	3	
133	Ammonium bicarbonate	1066-33-7	S	107.5				1.586	3	
134	Ammonium bisulfate; (Ammonium hydrogen sulfate)	7803-63-6	S	146.9				1.78	2	
135	Ammonium bisulfite; (Ammonium hydrogen sulfite)	10192-30-0	S		150 subl			2.03	2	
136	Ammonium bromide	12124-97-9	S	452 subl.	235 in vacuum	1	198.3	2.429	2	
137	Ammonium carbamate; (Carbamic acid, ammonium salt)	1111-78-0	S	60 sublms	60				3	
138	Ammonium carbonate	506-87-6	S	107.5	dec			1.586	3	
139	Ammonium chloride	12125-02-9	S	337.8	520	1	160.4 subl	1.52	3	
140	Ammonium chromate	7788-98-9	S	180 decom				1.91 @ 12C	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
127	Amitrole	61-82-5	08/21/96		10/15/06		NA
128	**Ammonia**	**7664-41-7**	10/31/92	02/01/08	12/20/07	GOEV, EPA	3
129	Ammonia-d3	13550-49-7			04/20/07		NA
130	Ammonium acetate	631-61-8	08/07/98		10/15/06		NA
131	Ammonium aluminum fluoride; (Triammonium hexafluoroaluminate)	7784-19-2	08/07/98		10/15/06		NA
132	Ammonium benzoate	1863-63-4			10/15/06		NA
133	Ammonium bicarbonate	1066-33-7	08/07/98		10/15/06		NA
134	Ammonium bisulfate; (Ammonium hydrogen sulfate)	7803-63-6			10/15/06		NA
135	Ammonium bisulfite; (Ammonium hydrogen sulfite)	10192-30-0	09/30/97		10/15/06		NA
136	Ammonium bromide	12124-97-9			10/15/06		NA
137	Ammonium carbamate; (Carbamic acid, ammonium salt)	1111-78-0			10/15/06		NA
138	Ammonium carbonate	506-87-6	08/07/98		10/15/06		NA
139	Ammonium chloride	12125-02-9	08/07/98		10/15/06		NA
140	Ammonium chromate	7788-98-9			10/15/06		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
141	Ammonium citrate	7632-50-0	ANF800	311.42	mg/m3	Y	12.73	C6.H8.O7. (N.H3)x
142	Ammonium citrate tribasic	3458-72-8	N.I.S. etc.	243.22	mg/m3	N	9.94	C6.H8.O7
143	Ammonium citrate, dibasic	3012-65-5	N.I.S.	226.19	mg/m3	Y	9.24	C6.H8.O7. (N.H3)2
144	Ammonium dichromate	7789-09-5	ANB500	252.10	mg/m3	Y	10.30	Cr2.H8.N2.O7
145	Ammonium dihydrogen phosphate; (Monoammonium phosphate)	7722-76-1	N.I.S.	115.03	mg/m3	Y	4.70	H3.N.H3.O4.P
146	Ammonium ferrous sulfate hexahydrate	7783-85-9	IGL200	356.09	mg/m3	N	14.55	H4-N2.Fe2.O4-S..6H2O
147	Ammonium fluoborate	13826-83-0	ANH000	104.86	mg/m3	Y	4.29	F4.B..N.H4
148	Ammonium fluoride	12125-01-8	ANH250	37.05	mg/m3	Y	1.51	N.H4..F
149	Ammonium formate	540-69-2	ANH500	63.07	mg/m3	N	2.58	NH3.C.H2.O2
150	Ammonium hexachlorohydrate (III)	z-0001	N.I.S.		mg/m3	N		[Unknown]
151	Ammonium hexafluorosilicate; (Ammonium silicofluoride)	16919-19-0	COE000	178.19	mg/m3	N	7.28	(N.H4)2..F6.Si
152	Ammonium hydrogen fluoride; (Ammonium bifluoride)	1341-49-7	ANJ000	57.06	mg/m3	Y	2.33	N.H4.HF2
153	Ammonium hydrogen oxalate hemihydrate	37541-72-3	N.I.S. etc.	232.15	mg/m3	Y	9.49	C4.H10.N2.O8..H2.O
154	Ammonium hydroxide	1336-21-6	ANK250	35.06	ppm	Y	1.43	N.H4..O.H

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
141	Ammonium citrate	7632-50-0	S					1.48	2	
142	Ammonium citrate tribasic	3458-72-8	S	185						
143	Ammonium citrate, dibasic	3012-65-5	S		decom			1.48 @ 25C		
144	Ammonium dichromate	7789-09-5	S	dec				2.936	3	
145	Ammonium dihydrogen phosphate; (Monoammonium phosphate)	7722-76-1	S	190				1.803	1	
146	Ammonium ferrous sulfate hexahydrate	7783-85-9	S						2	
147	Ammonium fluoborate	13826-83-0	S	230	238 subl			1.871 @ 15C	3	
148	Ammonium fluoride	12125-01-8	S	subl				1.00925	3	
149	Ammonium formate	540-69-2	S	116	180 dec			1.28	2	
150	Ammonium hexachlorohydrate (III)	z-0001	S							
151	Ammonium hexafluorosilicate; (Ammonium silicofluoride)	16919-19-0	S	subl				2.01	3	
152	Ammonium hydrogen fluoride; (Ammonium bifluoride)	1341-49-7	S	126	239			1.51	3	
153	Ammonium hydrogen oxalate hemihydrate	37541-72-3	S	220						
154	Ammonium hydroxide	1336-21-6	L	-77	36	2160	25	0.9	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
141	Ammonium citrate	7632-50-0	08/07/98		10/15/06		NA
142	Ammonium citrate tribasic	3458-72-8			10/15/06		NA
143	Ammonium citrate, dibasic	3012-65-5			10/15/06		NA
144	Ammonium dichromate	7789-09-5	08/07/98		10/15/06		2
145	Ammonium dihydrogen phosphate; (Monoammonium phosphate)	7722-76-1			10/15/06		NA
146	Ammonium ferrous sulfate hexahydrate	7783-85-9	01/04/99		10/15/06		NA
147	Ammonium fluoborate	13826-83-0			10/15/06		NA
148	Ammonium fluoride	12125-01-8	08/07/98		10/15/06		3
149	Ammonium formate	540-69-2	08/07/98		10/15/06		NA
150	Ammonium hexachlorohydrate (III)	z-0001	08/07/98		10/15/06		
151	Ammonium hexafluorosilicate; (Ammonium silicofluoride)	16919-19-0	08/07/98		10/15/06		NA
152	Ammonium hydrogen fluoride; (Ammonium bifluoride)	1341-49-7	08/07/98		10/15/06		NA
153	Ammonium hydrogen oxalate hemihydrate	37541-72-3			10/15/06		NA
154	Ammonium hydroxide	1336-21-6	08/21/96		04/20/07		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
155	Ammonium iodide	12027-06-4	ANL000	145.00	mg/m3	Y	5.93	N.H4.I
156	Ammonium lactate	515-98-0	N.I.S.	107.11	mg/m3	N	4.38	N.H3..C3.H6.O3
157	Ammonium lignin sulfonate	8061-53-8	N.I.S.		mg/m3	N		[Unknown]
158	Ammonium molybdate(VI) tetrahydrate	12054-85-2	N.I.S.	1163.89	mg/m3	N	47.57	Mo7.O24.H24,N6
159	Ammonium molybdate; (Diammonium molybdate)	13106-76-8	ANM750	196.04	mg/m3	N	8.01	Mo.O4..2 H4.N
160	Ammonium molybdophosphate	12026-66-3	N.I.S.	1876.35	mg/m3	N	76.69	(N.H4)3..12(Mo.O3)..P.O4
161	Ammonium nickel sulfate	15699-18-0	NCY000	286.93	mg/m3	N	11.73	O8.S2.Ni.2H.4N
162	Ammonium nitrate	6484-52-2	ANN000	80.06	mg/m3	Y	3.27	H.N.O3..H3.N
163	Ammonium oxalate monohydrate	5972-73-6	N.I.S.	125.08	mg/m3	Y	5.11	C2.H7.N.O5, or N.H3..H2..C2.O4..H2.O
164	Ammonium oxalate; (Diammonium oxalate monohydrate)	6009-70-7	N.I.S.	142.11	mg/m3	Y	5.81	C2.H10.N2.O5, or (N.H4)2..C2.O4..H2.O
165	Ammonium oxalate; (Ethanedioic acid, diammonium salt)	1113-38-8	ANO750	124.12	mg/m3	Y	5.07	C2.H2.O4.. 2 H3.N
166	Ammonium pentaborate	12007-89-5	N.I.S.	272.14	mg/m3	N	11.12	N.H4.B5.O8
167	Ammonium perchlorate	7790-98-9	PCD500	117.50	mg/m3	Y	4.80	Cl.O4..H4.N
168	Ammonium permanganate	13446-10-1	PCJ750	136.99	mg/m3	Y	5.60	Mn.O4..H4.N

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
155	Ammonium iodide	12027-06-4	S	551 subl	220 vac	1	210.9	2.51425	2	
156	Ammonium lactate	515-98-0								
157	Ammonium lignin sulfonate	8061-53-8								
158	Ammonium molybdate(VI) tetrahydrate	12054-85-2	S	90	180 dec			2.498		
159	Ammonium molybdate; (Diammonium molybdate)	13106-76-8	S	dec				2.27	3	
160	Ammonium molybdophosphate	12026-66-3	S							
161	Ammonium nickel sulfate	15699-18-0	S					1.923	3	
162	Ammonium nitrate	6484-52-2	S	169.6	>210 subl			1.725	3	
163	Ammonium oxalate monohydrate	5972-73-6	S							
164	Ammonium oxalate; (Diammonium oxalate monohydrate)	6009-70-7	S	70 decom				1.50 @ 18.5C		
165	Ammonium oxalate; (Ethanedioic acid, diammonium salt)	1113-38-8	S	dec				1.5	3	
166	Ammonium pentaborate	12007-89-5	S					1.58 @ 15C		
167	Ammonium perchlorate	7790-98-9	S vs	dec				1.95	3	
168	Ammonium permanganate	13446-10-1	S	expl				2.208	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
155	Ammonium iodide	12027-06-4	08/07/98		10/15/06		NA
156	Ammonium lactate	515-98-0	01/04/99	05/28/08	05/28/08	RTECS	NA
157	Ammonium lignin sulfonate	8061-53-8	09/30/97		10/15/06		NA
158	Ammonium molybdate(VI) tetrahydrate	12054-85-2			10/15/06		NA
159	Ammonium molybdate; (Diammonium molybdate)	13106-76-8	08/07/98		05/17/07	GOEV 2007, NIOSH.	NA
160	Ammonium molybdophosphate	12026-66-3	08/07/98		10/15/06		NA
161	Ammonium nickel sulfate	15699-18-0			10/15/06		NA
162	Ammonium nitrate	6484-52-2	08/07/98		10/15/06		NA
163	Ammonium oxalate monohydrate	5972-73-6			10/15/06		NA
164	Ammonium oxalate; (Diammonium oxalate monohydrate)	6009-70-7			10/15/06		NA
165	Ammonium oxalate; (Ethanedioic acid, diammonium salt)	1113-38-8	08/07/98		10/15/06		NA
166	Ammonium pentaborate	12007-89-5	08/07/98		10/15/06		NA
167	Ammonium perchlorate	7790-98-9			10/15/06		NA
168	Ammonium permanganate	13446-10-1			10/15/06		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
169	Ammonium persulfate	7727-54-0	ANR000	228.22	mg/m3	Y	9.33	O8.S2..2 H4.N
170	Ammonium phosphate dibasic	7783-28-0	ANR500	132.08	mg/m3	N	5.40	H6.N2..H3.O4.P
171	Ammonium picrate	131-74-8	ANS500	246.16	mg/m3	N	10.06	C6.H3.N3.O7..H3.N
172	Ammonium polyacrylate	9003-03-6	N.I.S.		mg/m3	N		(C3.H4.O2)x..x H3.N
173	Ammonium sulfamate	7773-06-0	ANU650	114.14	mg/m3	N	4.67	H2.N.O3.S..H4.N
174	Ammonium sulfate	7783-20-2	ANU750	132.16	mg/m3	N	5.40	S.O4..(N.H4)2
175	Ammonium sulfide	12135-76-1	N.I.S.	68.14	ppm	Y	2.78	(N.H4)2..S
176	Ammonium sulfite	10196-04-0	N.I.S.	116.14	mg/m3	Y	4.75	(N.H4)2..2S.O3
177	Ammonium sulfite monohydrate	7783-11-1	N.I.S. etc.	134.16	mg/m3	N	5.48	(N.H4)2..S.O3..H2.O
178	Ammonium tartrate	14307-43-8	N.I.S.	184.00	mg/m3	Y	7.52	(N.H4)2.. C4.H4.O6
179	Ammonium tartrate; (Diammonium tartrate)	3164-29-2	DCH000	184.18	mg/m3	N	7.53	C4.H6.O6.. 2 N.H3
180	Ammonium thiocyanate	1762-95-4	ANW750	76.13	mg/m3	N	3.11	C.N.S..H4.N
181	Ammonium thiosulfate; (Ammonium hyposulfite)	7783-18-8	ANK600	148.22	mg/m3	N	6.06	(N.H4)2..S2.O3
182	Ammonium tungstate(VI)	11120-25-5	N.I.S.	3042.44	mg/m3		124.35	(N.H4)10..W12.O41

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
169	Ammonium persulfate	7727-54-0	S	120 dec				1.982	3	
170	Ammonium phosphate dibasic	7783-28-0	S	185 dec				1.619	2	
171	Ammonium picrate	131-74-8	S	dec	423 expl			1.719	3	
172	Ammonium polyacrylate	9003-03-6	S							
173	Ammonium sulfamate	7773-06-0	S	131	160 dec				2	
174	Ammonium sulfate	7783-20-2	S	>280				1.77	2	
175	Ammonium sulfide	12135-76-1	L	decom	104					40000
176	Ammonium sulfite	10196-04-0	S					> 1.1 @ 20C		
177	Ammonium sulfite monohydrate	7783-11-1	S	60-70	230-245 decomp			1.41		
178	Ammonium tartrate	14307-43-8	S		decom			1.6 @ 25C		
179	Ammonium tartrate; (Diammonium tartrate)	3164-29-2	S					1.601	3	
180	Ammonium thiocyanate	1762-95-4	S del	149.6	170 dec			1.305	3	
181	Ammonium thiosulfate; (Ammonium hyposulfite)	7783-18-8	S	150 dec				1.679	2	
182	Ammonium tungstate(VI)	11120-25-5	S					2.3		

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
169	Ammonium persulfate	7727-54-0	08/07/98		10/15/06		NA
170	Ammonium phosphate dibasic	7783-28-0	08/07/98		10/15/06		NA
171	Ammonium picrate	131-74-8	08/21/96		10/15/06		NA
172	Ammonium polyacrylate	9003-03-6			10/15/06		
173	Ammonium sulfamate	7773-06-0	08/21/96		10/15/06		NA
174	Ammonium sulfate	7783-20-2	01/04/99		10/15/06		NA
175	Ammonium sulfide	12135-76-1			10/15/06		NA
176	Ammonium sulfite	10196-04-0			10/15/06		NA
177	Ammonium sulfite monohydrate	7783-11-1			10/15/06		NA
178	Ammonium tartrate	14307-43-8			10/15/06		NA
179	Ammonium tartrate; (Diammonium tartrate)	3164-29-2			10/15/06		NA
180	Ammonium thiocyanate	1762-95-4	08/07/98		10/15/06		NA
181	Ammonium thiosulfate; (Ammonium hyposulfite)	7783-18-8	09/30/97		10/15/06		NA
182	Ammonium tungstate(VI)	11120-25-5			10/15/06		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
183	Ammonium vanadate; (Ammonium vanadium oxide; Ammonium metavanadate)	7803-55-6	ANY250	116.99	mg/m3	N	4.78	NH4.VO3
184	Ammonium, hexadecyltrimethyl-, bromide; (Hexadecyltrimethylammonium bromide)	57-09-0	HCQ500	364.53	mg/m3	Y	14.90	C19.H42.N.Br
185	Ammonium, tetraethyl, bromide; (Tetraethyl ammonium bromide)	71-91-0	TCC000	210.20	mg/m3	N	8.59	C8.H20.N..Br
186	Ammonium, tetramethyl, bromide; (Tetramethylammonium bromide)	64-20-0		154.08	mg/m3	N	6.30	C4.H12.Br.N
187	Amosite	12172-73-5	ARM262	1908.60	mg/m3	N	78.01	11 Fe.O..3 Mg.O..16 Si.O2..2 H2.O
188	Amphetamine; (Benzedrine)	300-62-9	BBK000	135.23	mg/m3	N	5.53	C9.H13.N
189	Amyl acetate	628-63-7	AOD725	130.21	ppm	Y	5.32	C7.H14.O2
190	Amyl alcohol; (1-Pentanol)	71-41-0	AOE000	88.17	ppm	Y	3.60	C5.H12.O
191	Amyl methyl ether, tert-; (TAME)	994-05-8	PBX400	102.20	ppm	Y	4.18	C6.H14.O
192	Amylamine, n-; (1-Pentylamine)	110-58-7	PBV505	87.19	mg/m3	N	3.56	C5.H13.N
193	**Amyltrichlorosilane; (Pentyltrichlorosilane)**	**107-72-2**	PBY750	205.60	ppm	Y	8.40	C5.H11.Cl3.Si
194	Anhydrone; (Magnesium perchlorate)	10034-81-8	PCE000	223.21	mg/m3	Y	9.12	Cl2.O8.Mg
195	**Aniline**	**62-53-3**	AOQ000	93.14	ppm	Y	3.81	C6.H5.N.H2
196	Anisidine, o-	90-04-0	AOV900	123.17	mg/m3	N	5.03	C7H9NO

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
183	Ammonium vanadate; (Ammonium vanadium oxide; Ammonium metavanadate)	7803-55-6	S	200 dec				2.326	3	
184	Ammonium, hexadecyltrimethyl-, bromide; (Hexadecyltrimethylammonium bromide)	57-09-0	S	237-243					3	
185	Ammonium, tetraethyl, bromide; (Tetraethyl ammonium bromide)	71-91-0	S hygr	286 dec				1.3970 @ 20C	3	
186	Ammonium, tetramethyl, bromide; (Tetramethylammonium bromide)	64-20-0	S hygr.	dec. >230	subl. >360 dec.			1.5	3	
187	Amosite	12172-73-5	S fibre						3	
188	Amphetamine; (Benzedrine)	300-62-9	L		203			0.931	3	
189	Amyl acetate	628-63-7	L	-78.5	148.4			0.879	3	11000
190	Amyl alcohol; (1-Pentanol)	71-41-0	L	-79	137.8	10	44.9	0.8168	3	12000
191	Amyl methyl ether, tert-; (TAME)	994-05-8	L		86.1	75.2	25	0.766	2	
192	Amylamine, n-; (1-Pentylamine)	110-58-7	L						3	22000
193	**Amyltrichlorosilane; (Pentyltrichlorosilane)**	**107-72-2**	L		172			1.1330 @ 20C	2	
194	Anhydrone; (Magnesium perchlorate)	10034-81-8	S	251 dec				2.6	2	
195	**Aniline**	**62-53-3**	L	-6.1	183.9	0.6	20	1.02	3	13000
196	Anisidine, o-	90-04-0	L	5	225			1.097	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
183	Ammonium vanadate; (Ammonium vanadium oxide; Ammonium metavanadate)	7803-55-6	08/21/96		10/15/06		NA
184	Ammonium, hexadecyltrimethyl-, bromide; (Hexadecyltrimethylammonium bromide)	57-09-0	01/04/99		10/15/06		NA
185	Ammonium, tetraethyl, bromide; (Tetraethyl ammonium bromide)	71-91-0			08/24/07	RTECS	NA
186	Ammonium, tetramethyl, bromide; (Tetramethylammonium bromide)	64-20-0			10/15/06		NA
187	Amosite	12172-73-5	03/01/00		10/15/06		NA
188	Amphetamine; (Benzedrine)	300-62-9			10/15/06		3
189	Amyl acetate	628-63-7	08/07/98	02/25/08	10/15/06	GOEV, SAX, RTECS,	1
190	Amyl alcohol; (1-Pentanol)	71-41-0	08/07/98		04/20/07		1
191	Amyl methyl ether, tert-; (TAME)	994-05-8			10/15/06		NA
192	Amylamine, n-; (1-Pentylamine)	110-58-7			10/15/06		3
193	**Amyltrichlorosilane; (Pentyltrichlorosilane)**	**107-72-2**	07/02/08	07/07/08	07/02/08	EPA, HSDB.	3
194	Anhydrone; (Magnesium perchlorate)	10034-81-8	08/07/98		10/15/06		NA
195	**Aniline**	**62-53-3**	08/21/96	02/01/08	12/20/07	GOEV, EPA	2
196	Anisidine, o-	90-04-0	09/30/97		10/15/06		2

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
197	Anisidine, p-	104-94-9	AOW000	123.16	mg/m3	N	5.03	C7.H9.N.O
198	Anisole; (Anisole anhydrous; Methoxybenzene)	100-66-3	AOX750	108.15	mg/m3	Y	4.42	C7.H8.O
199	Anthracene	120-12-7	APG500	178.24	mg/m3	Y	7.28	C6.H4:(C.H)2: C6.H4
200	Anthracenedisulfonic acid, 4,8-diamino-9,10-dihydro-1,5-dihydroxy-9,10-dioxo, disodium salt, 2,6-; (Acid Blue 45; Alizarine Blue)	2861-02-1	N.I.S.	474.34	mg/m3	N	19.39	C14.H8.N2.O10.S2..2Na
201	Anthranilic acid	118-92-3	API500	137.15	mg/m3	N	5.61	C7.H7.N.O2
202	Anthraquinone	84-65-1	APK250	208.22	mg/m3	N	8.51	C14.H8.O2
203	Antimony	7440-36-0	AQB750	121.75	mg/m3	N	4.98	Sb
204	Antimony oxide	1309-64-4	AQF000	291.50	mg/m3	N	11.91	Sb2.O3
205	Antimony pentachloride	7647-18-9	AQD000	299.01	mg/m3	N	12.22	Cl5.Sb
206	Antimony pentafluoride	7783-70-2	AQF250	216.75	mg/m3	Y	8.86	Sb.F5
207	Antimony pentasulfide	1315-04-4	AQF500	403.80	mg/m3	N	16.50	Sb2.S5
208	Antimony potassium tartrate trihydrate	28300-74-5	AQG250	635.88	mg/m3	N	25.99	C8.H4O..12 Sb2.3 H2.O.2K
209	Antimony trichloride	10025-91-9	AQC500	228.10	mg/m3	Y	9.32	Sb.Cl3
210	Antimony trifluoride	7783-56-4	AQE000	178.75	mg/m3	Y	7.31	Sb.F3

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
197	Anisidine, p-	104-94-9	S	57	246			1.089	1	
198	Anisole; (Anisole anhydrous; Methoxybenzene)	100-66-3	L	-37.3	153.8	10	42.2	1.515	3	3400
199	Anthracene	120-12-7	S	217	339.9	1	145	1.24	2	6000
200	Anthracenedisulfonic acid, 4,8-diamino-9,10-dihydro-1,5-dihydroxy-9,10-dioxo, disodium salt, 2,6-; (Acid Blue 45; Alizarine Blue)	2861-02-1	S							
201	Anthranilic acid	118-92-3	S	144-146	subl.			1.412 @ 20C	2	
202	Anthraquinone	84-65-1	S	286	376.9	1	190	1.438	2	
203	Antimony	7440-36-0	S	630	1635	1	886	6.684	3	
204	Antimony oxide	1309-64-4	V	650	1550 subl			5.2	3	
205	Antimony pentachloride	7647-18-9	S	4	140	1	22.7	2.336	3	
206	Antimony pentafluoride	7783-70-2	L	7	149.5			2.99 @ 23C	3	
207	Antimony pentasulfide	1315-04-4	S	75 decom				4.12	3	
208	Antimony potassium tartrate trihydrate	28300-74-5	S	100 lose water				2.607	3	
209	Antimony trichloride	10025-91-9	S del	73.4	220	1	49.2	3.06	3	
210	Antimony trifluoride	7783-56-4	S	292	376	200	292	4.379 @ 20.9C	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
197	Anisidine, p-	104-94-9	09/30/97		10/15/06		NA
198	Anisole; (Anisole anhydrous; Methoxybenzene)	100-66-3			10/15/06		1
199	Anthracene	120-12-7	09/30/97		10/15/06		1
200	Anthracenedisulfonic acid, 4,8-diamino-9,10-dihydro-1,5-dihydroxy-9,10-dioxo, disodium salt, 2,6-; (Acid Blue 45; Alizarine Blue)	2861-02-1			10/15/06		NA
201	Anthranilic acid	118-92-3			10/15/06		NA
202	Anthraquinone	84-65-1	08/07/98		10/15/06		2
203	Antimony	7440-36-0	08/21/96	02/25/08	10/15/06	GOEV, NIOSH, RTECS.	NA
204	Antimony oxide	1309-64-4	09/30/97		10/15/06		NA
205	Antimony pentachloride	7647-18-9	08/07/98		10/15/06		3
206	Antimony pentafluoride	7783-70-2			10/15/06		4
207	Antimony pentasulfide	1315-04-4			10/15/06		NA
208	Antimony potassium tartrate trihydrate	28300-74-5	08/07/98		10/15/06		NA
209	Antimony trichloride	10025-91-9	09/30/97		10/15/06		NA
210	Antimony trifluoride	7783-56-4			10/15/06		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
211	Antimycin A	1397-94-0	AQM250	512.34	mg/m3	N	20.94	C28.H4.N2.O9
212	Antioxidant G-16 (most toxic antiox)	61373-87-3	N.I.S.		mg/m3	N		[Unknown]
213	Aqua regia (75% hydrochloric + 25% nitric acid)	8007-56-5	HHM000	99.47	ppm	Y	4.07	3H.Cl..H.N.O3
214	Arginine, L-	74-79-3	AQV980	174.20	mg/m3	N	7.12	C6.H14.N4.O2
215	Argon	7440-37-1a	AQW250	39.94	ppm	N	1.63	Ar
216	Argon, cryogenic	7440-37-1b	AQW250	39.94	ppm	N	1.63	Ar
217	Aromatic hydrocarbon solvents; (High flash naphtha distillates; Solvent naphtha (petroleum), light aromatic)	64742-95-6	SKS350	100.00	ppm	N	4.09	[Unspecified]
218	Aromatic isocyanate mixture "SWD 305A"	z-0111	N.I.S. etc.		mg/m3	N		
219	Arsenic	7440-38-2	ARA750	74.92	mg/m3	Y	3.06	As +
220	Arsenic acid	1327-52-2	N.I.S.	141.95	mg/m3	N	5.80	As.H3.O4
221	Arsenic acid; (o-arsenic acid)	7778-39-4	ARB250	141.95	mg/m3	Y	5.80	As.H3.O4
222	Arsenic pentoxide	1303-28-2	ARH500	229.84	mg/m3	Y	9.39	As2.O5
223	**Arsenic trioxide**	**1327-53-3**	ARI750	197.84	mg/m3	Y	8.09	As2.O3
224	Arsenious acid	13464-58-9	ARF750	125.99	mg/m3	Y	5.15	As.H3.O3

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
211	Antimycin A	1397-94-0	S			0.00001	25		3	
212	Antioxidant G-16 (most toxic antiox)	61373-87-3	L						2	
213	Aqua regia (75% hydrochloric + 25% nitric acid)	8007-56-5	L						3	
214	Arginine, L-	74-79-3	S	207						
215	Argon	7440-37-1a	G	-189.2	-185.7			1784	1	
216	Argon, cryogenic	7440-37-1b	G	-189.2	-185.7			1.40 @ -186C	1	
217	Aromatic hydrocarbon solvents; (High flash naphtha distillates; Solvent naphtha (petroleum), light aromatic)	64742-95-6	L						D	8000
218	Aromatic isocyanate mixture "SWD 305A"	z-0111	L							
219	Arsenic	7440-38-2	S					4.7	3	
220	Arsenic acid	1327-52-2	S	35.5	300 dec			2.2 @ 20C		
221	Arsenic acid; (o-arsenic acid)	7778-39-4	S	35.5	160 dec			2-2.5	3	
222	Arsenic pentoxide	1303-28-2	S	800 dec				4.32	3	
223	**Arsenic trioxide**	**1327-53-3**	S	312	460	1	372	3.865	3	
224	Arsenious acid	13464-58-9	V							

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
211	Antimycin A	1397-94-0			10/15/06		NA
212	Antioxidant G-16 (most toxic antiox)	61373-87-3	07/09/97		10/15/06		NA
213	Aqua regia (75% hydrochloric + 25% nitric acid)	8007-56-5	01/04/99		10/15/06		NA
214	Arginine, L-	74-79-3	08/07/98		10/15/06		NA
215	Argon	7440-37-1a			10/15/06		
216	Argon, cryogenic	7440-37-1b			10/15/06		
217	Aromatic hydrocarbon solvents; (High flash naphtha distillates; Solvent naphtha (petroleum), light aromatic)	64742-95-6	09/30/97		10/15/06		NA
218	Aromatic isocyanate mixture "SWD 305A"	z-0111			10/15/06		
219	Arsenic	7440-38-2	10/31/92	02/25/08	02/25/08	GOEV, RTECS, NIOSH.	NA
220	Arsenic acid	1327-52-2			10/15/06		NA
221	Arsenic acid; (o-arsenic acid)	7778-39-4	09/30/97		10/15/06		NA
222	Arsenic pentoxide	1303-28-2	09/30/97		10/15/06		3
223	**Arsenic trioxide**	**1327-53-3**	07/09/97	07/18/08	01/02/08	GPEV, EPA.	3
224	Arsenious acid	13464-58-9			10/15/06		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
225	Arsenous trichloride	7784-34-1	ARF500	181.27	ppm	N	7.41	As.Cl3
226	**Arsine**	**7784-42-1**	ARK250	77.95	ppm	**Y**	3.19	As.H3
227	Asbestos	1332-21-4	ARM250		mg/m3	Y		[Unspecified]
228	Asbestos (Chrysotile)	12001-29-5	ARM268		mg/m3	Y		(Unspecified)
229	Ascaridole	512-85-6	ARM500	168.26	mg/m3	N	6.88	C10.H16.O2
230	Ascarite; (Asbestos, 1332-21-4)	81133-20-2	N.I.S. etc.		mg/m3	N		(Unspecified)
231	Ascorbic acid	50-81-7	ARN000	176.14	mg/m3	N	7.20	C6.H8.O6
232	Asphalt; (Bitumen)	8052-42-4a	ARO500		mg/m3	Y		[Unspecified]
233	Auramine; (4.4'-(Imidocarbonyl)bis(N,N-dimethylamine) monohydrochloride)	2465-27-2	IBA000	303.87	mg/m3	N	12.42	C17.H21.N3..Cl.H
234	Azaserine; (L-Serine, diazoacetate (ester))	115-02-6	ASA500	173.15	mg/m3	N	7.08	C5.H7.N3.O4
235	Azinphos ethyl; (Ethyl guthion)	2642-71-9	EKN000	345.40	mg/m3	N	14.12	C12.H16.N3.O3.P.S2
236	Azinphos methyl; (GuthionR)	86-50-0	ASH500	317.34	mg/m3	N	12.97	C10.H12.N3.O3.P.S2
237	Aziridine homopolymer; (Ethylenimine homopolyer; Poly(ethyleneimine)	9002-98-6	PJX800	10000	mg/m3	N	408.71	(C2.H5.N)x
238	Azobis(2-methylpropionitrile), 2,2'-	78-67-1	ASL750	164.24	mg/m3	N	6.71	C8.H12.N4

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
225	Arsenous trichloride	7784-34-1	L	-16	130	10	23.5	2.15	3	
226	**Arsine**	**7784-42-1**	G	-117.2	-62.8	>760		2.695	3	51000
227	Asbestos	1332-21-4	S fibers						3	
228	Asbestos (Chrysotile)	12001-29-5	S fibrs						3	
229	Ascaridole	512-85-6	L	3.3					3	
230	Ascarite; (Asbestos, 1332-21-4)	81133-20-2	S							
231	Ascorbic acid	50-81-7	S	192					2	
232	Asphalt; (Bitumen)	8052-42-4a	S (?)		<470			0.96-1.1	3	
233	Auramine; (4.4'-(Imidocarbonyl)bis(N,N-dimethylamine) monohydrochloride)	2465-27-2	S	267					3	
234	Azaserine; (L-Serine, diazoacetate (ester))	115-02-6	S	157	decom	1.53 E-10	25		3	
235	Azinphos ethyl; (Ethyl guthion)	2642-71-9	S	53	111 @ 0.001 mm	3.2E-06	20	1.284 @ 20C	3	
236	Azinphos methyl; (GuthionR)	86-50-0	S	74				1.44	3	
237	Aziridine homopolymer; (Ethylenimine homopolyer; Poly(ethyleneimine)	9002-98-6	L						2	
238	Azobis(2-methylpropionitrile), 2,2'-	78-67-1	S	107 dec					3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
225	Arsenous trichloride	7784-34-1	03/01/00		10/15/06		NA
226	**Arsine**	**7784-42-1**	10/31/92	02/01/08	12/20/07	GOEV, EPA	4
227	Asbestos	1332-21-4			10/15/06		NA
228	Asbestos (Chrysotile)	12001-29-5	07/09/97		10/15/06		NA
229	Ascaridole	512-85-6			10/15/06		NA
230	Ascarite; (Asbestos, 1332-21-4)	81133-20-2			10/15/06		NA
231	Ascorbic acid	50-81-7	08/07/98		10/15/06		NA
232	Asphalt; (Bitumen)	8052-42-4a	09/30/97		10/15/06		
233	Auramine; (4.4'-(Imidocarbonyl)bis(N,N-dimethylamine) monohydrochloride)	2465-27-2	08/21/96		10/15/06		NA
234	Azaserine; (L-Serine, diazoacetate (ester))	115-02-6			10/15/06		NA
235	Azinphos ethyl; (Ethyl guthion)	2642-71-9			10/15/06		NA
236	Azinphos methyl; (GuthionR)	86-50-0			10/15/06		NA
237	Aziridine homopolymer; (Ethylenimine homopolyer; Poly(ethyleneimine)	9002-98-6			04/20/07		NA
238	Azobis(2-methylpropionitrile), 2,2'-	78-67-1			10/15/06		3

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
239	Azodicarbamide; (Azodicarbonamide)	123-77-3	ASM270	116.10	mg/m3	N	4.75	C2.H4.N4.O2
240	Bacto peptone	51142-18-8	N.I.S. etc.		mg/m3	N		(Unknown)
241	Barbituric acid	67-52-7	BAG750	128.10	mg/m3	Y	5.24	C4.H4.O3.N2
242	Barium	7440-39-3	BAH250	137.36	mg/m3	N	5.61	Ba (element)
243	Barium acetate; (Barium acetate anhydrous)	543-80-6	BAH500	255.44	mg/m3	N	10.44	Ba..C4.H6.O4
244	Barium carbonate	513-77-9	BAJ250	197.35	mg/m3	N	8.07	CO3 .Ba
245	Barium chloride	10361-37-2	BAK000	208.24	mg/m3	N	8.51	Ba.Cl2
246	Barium chloride dihydrate	10326-27-9	BAK020	244.28	mg/m3	N	9.98	Ba.Cl2..2H2O
247	Barium chromate	10294-40-3	BAK250	255.36	mg/m3	N	10.44	Ba.Cr.O4
248	Barium cyanide	542-62-1	BAK750	189.38	mg/m3	N	7.74	Ba.C2.N2
249	Barium dioxide; (Barium peroxide)	1304-29-6	BAO250	169.34	mg/m3	Y	6.92	Ba.O2
250	Barium diphenylamine sulfonate	6211-24-1	N.I.S.	633.88	mg/m3	N	25.91	C24.H20.Ba.N2.O6.S2
251	Barium fluoride	7787-32-8	BAM000	175.34	mg/m3	N	7.17	Ba.F2
252	Barium hydrogen phosphate; (Barium phosphate dibasic)	10048-98-3	BAK500	233.31	mg/m3	N	9.54	Ba.H.P.O4

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
239	Azodicarbamide; (Azodicarbonamide)	123-77-3	S	225				1.65 @ 20C	D	
240	Bacto peptone	51142-18-8								
241	Barbituric acid	67-52-7	S	245	260 dec				1	
242	Barium	7440-39-3	S	725	1640	10	1049	3.5	3	
243	Barium acetate; (Barium acetate anhydrous)	543-80-6	S		725 dec			2.468	3	
244	Barium carbonate	513-77-9	S	dec				4.43	3	
245	Barium chloride	10361-37-2	S	925	1560			3.856	3	
246	Barium chloride dihydrate	10326-27-9	S	962	1560			3.9	3	
247	Barium chromate	10294-40-3	S					4.498	3	
248	Barium cyanide	542-62-1	S						3	
249	Barium dioxide; (Barium peroxide)	1304-29-6	S	450	800 dec			4.96	3	
250	Barium diphenylamine sulfonate	6211-24-1	S	300						
251	Barium fluoride	7787-32-8	S	1280	2137			4.89	3	
252	Barium hydrogen phosphate; (Barium phosphate dibasic)	10048-98-3	S	400 dec				4.16	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
239	Azodicarbamide; (Azodicarbonamide)	123-77-3			10/15/06		NA
240	Bacto peptone	51142-18-8			10/15/06		NA
241	Barbituric acid	67-52-7	08/07/98		10/15/06		NA
242	Barium	7440-39-3	08/21/96		10/15/06		NA
243	Barium acetate; (Barium acetate anhydrous)	543-80-6			10/15/06		NA
244	Barium carbonate	513-77-9	08/07/98		10/15/06		NA
245	Barium chloride	10361-37-2	08/21/96		10/15/06		NA
246	Barium chloride dihydrate	10326-27-9			10/15/06		NA
247	Barium chromate	10294-40-3	01/04/99		10/15/06		NA
248	Barium cyanide	542-62-1			10/15/06		NA
249	Barium dioxide; (Barium peroxide)	1304-29-6			10/15/06		NA
250	Barium diphenylamine sulfonate	6211-24-1	08/07/98		10/15/06		NA
251	Barium fluoride	7787-32-8	08/21/96		10/15/06		NA
252	Barium hydrogen phosphate; (Barium phosphate dibasic)	10048-98-3	08/07/98		10/15/06		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
253	Barium hydroxide	17194-00-2	BAM500	171.35	mg/m3	N	7.00	Ba.(O.H)2
254	Barium hydroxide octahydrate	12230-71-6	N.I.S.	315.47	mg/m3	Y	12.89	Ba.H2.O2..8 H2.O
255	Barium metaborate	13701-59-2	N.I.S.	222.96	mg/m3	N	9.11	B2.O4.Ba
256	Barium nitrate	10022-31-8	BAN250	261.36	mg/m3	Y	10.68	Ba.(N.O3)2
257	Barium nitrite	13465-94-6	N.I.S.	229.34	mg/m3	N	9.37	Ba.(N.O2)2
258	Barium oxide	1304-28-5	BAO000	153.34	mg/m3	N	6.27	Ba.O
259	Barium permanganate	7787-36-2	PCK000	375.22	mg/m3	Y	15.34	Mn.O4.Ba
260	Barium phosphate	13466-20-1	BAK500	216.30	mg/m3	N	8.84	Ba.P.O3
261	Barium stearate	6865-35-6	BAO825	706.42	mg/m3	N	28.87	Ba..C36.H72.O4
262	Barium sulfate	7727-43-7	BAP000	233.40	mg/m3	N	9.54	Ba.S.O4
263	Basic Green 4; (Aizen malachite green)	569-64-2	AFG500	364.95	mg/m3	N	14.92	C23.H25.N2.Cl
264	Basic Red 1; (Rhodamine 6G extra base)	989-38-8	RGW000	479.06	mg/m3	N	19.58	C28.H30.N2.O3..Cl.H
265	Bathophenanthroline	1662-01-7	N.I.S.	175.08	mg/m3	N	7.16	C24.H16.N2
266	Bentonite; (Clay absorbent)	1302-78-9	BAV750		mg/m3	N		[Unspecified]

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
253	Barium hydroxide	17194-00-2	S	408					3	
254	Barium hydroxide octahydrate	12230-71-6	S pwdr	78/408	780	227	77.9	2.18 @ 16C	3	
255	Barium metaborate	13701-59-2	S	>900				3.3		
256	Barium nitrate	10022-31-8	S	592	dec			3.24	3	
257	Barium nitrite	13465-94-6	S	267				3.234		
258	Barium oxide	1304-28-5	S	1913	~2000			5.72	3	
259	Barium permanganate	7787-36-2	S	200 dec				3.77	2	
260	Barium phosphate	13466-20-1	S						3	
261	Barium stearate	6865-35-6	S	160				1.145	2	
262	Barium sulfate	7727-43-7	S insol	1580	dec.	~0	20	4.5	2	
263	Basic Green 4; (Aizen malachite green)	569-64-2	S						3	
264	Basic Red 1; (Rhodamine 6G extra base)	989-38-8	S						3	
265	Bathophenanthroline	1662-01-7	S	218-220						
266	Bentonite; (Clay absorbent)	1302-78-9	S						1	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
253	Barium hydroxide	17194-00-2	08/07/98		10/15/06		NA
254	Barium hydroxide octahydrate	12230-71-6			10/15/06		NA
255	Barium metaborate	13701-59-2	03/01/00		10/15/06		NA
256	Barium nitrate	10022-31-8	08/21/96		10/15/06		NA
257	Barium nitrite	13465-94-6			10/15/06		NA
258	Barium oxide	1304-28-5	08/21/96		10/15/06		NA
259	Barium permanganate	7787-36-2			10/15/06		NA
260	Barium phosphate	13466-20-1	08/07/98		10/15/06		NA
261	Barium stearate	6865-35-6			10/15/06		NA
262	Barium sulfate	7727-43-7	08/21/96		10/15/06		NA
263	Basic Green 4; (Aizen malachite green)	569-64-2			10/15/06		NA
264	Basic Red 1; (Rhodamine 6G extra base)	989-38-8			10/15/06		NA
265	Bathophenanthroline	1662-01-7			10/15/06		NA
266	Bentonite; (Clay absorbent)	1302-78-9	09/30/97		10/15/06		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
267	Benz(e)acephenanthrylene; (Benzo(b)fluoroanthene)	205-99-2	BAW250	252.32	mg/m3	N	10.31	C20.H12
268	Benzal chloride	98-87-3	BAY300	161.03	mg/m3	N	6.58	C7.H6.Cl2
269	Benzaldehyde	100-52-7	BAY500	106.13	ppm	Y	4.34	C7.H6.O
270	Benzamide	55-21-0	BBB000	121.15	mg/m3	N	4.95	C7.H7.N.O
271	Benzenamine, sulfate (2:1)	542-16-5	N.I.S.	284.33	mg/m3	N	11.62	C12.H16.N2.O4.S
272	**Benzene**	**71-43-2**	BBL250	78.12	ppm	Y	3.19	C6.H6
273	Benzene hexachloride; (Hexachlorocyclohexane, mixed isomers)	608-73-1	BBP750	290.82	mg/m3	N	11.89	C6.H6.Cl6
274	Benzene, 1-(chloromethyl)-4-nitro-; (p-Nitrobenzyl chloride)	100-14-1	NFN400	171.59	mg/m3	N	7.01	C7.H6.Cl..N.O2
275	Benzenearsonic acid; (Phenylarsonic acid)	98-05-5	BBL750	202.05	mg/m3	N	8.26	C6.H7.As.O3
276	Benzene-d6; (Deuterated benzene)	1076-43-3	N.I.S.	84.16	ppm	Y	3.44	C6.D6
277	Benzenesulfonic acid chloride; (Benzenesulfonyl chloride)	98-09-9	BBS750	176.62	mg/m3	N	7.22	C6.H5.Cl.O2.S
278	Benzenesulfonic acid, 4-chloro	98-66-8	CEK100	192.62	mg/m3	N	7.87	C6.H5.Cl.O3.S
279	Benzenesulfonic acid, 5-chloro-2	z-0114	N.I.S. etc.	192.62	mg/m3	N	7.87	C6.H5.Cl.O3.S
280	Benzenetetracarboxylic dianhydride, 1,2,4,5-	89-32-7	PPQ635	218.12	mg/m3	Y	8.91	C1.0.H2.O6

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
267	Benz(e)acephenanthrylene; (Benzo(b)fluoroanthene)	205-99-2	S	168		5E-07	20		3	
268	Benzal chloride	98-87-3	L	-16	214			1.29	3	
269	Benzaldehyde	100-52-7	L	-26	179	1	26.2	1.041	3	
270	Benzamide	55-21-0	S	130	288	0.000165		1.341	2	
271	Benzenamine, sulfate (2:1)	542-16-5	S					1.38		13000
272	**Benzene**	**71-43-2**	L	5.6	79.4	75	20	0.8794	3	12000
273	Benzene hexachloride; (Hexachlorocyclohexane, mixed isomers)	608-73-1	S	113		0.0317		1.87	3	
274	Benzene, 1-(chloromethyl)-4-nitro-; (p-Nitrobenzyl chloride)	100-14-1	S	71	230	0.05	25		3	
275	Benzenearsonic acid; (Phenylarsonic acid)	98-05-5	S	160 dec				1.76	3	
276	Benzene-d6; (Deuterated benzene)	1076-43-3	L	7	79			0.95		14000
277	Benzenesulfonic acid chloride; (Benzenesulfonyl chloride)	98-09-9	L	14.5	251-252	0.068	25	1.384 @ 15C	3	
278	Benzenesulfonic acid, 4-chloro	98-66-8	S	102					2	
279	Benzenesulfonic acid, 5-chloro-2	z-0114	S							
280	Benzenetetracarboxylic dianhydride, 1,2,4,5-	89-32-7	S	285.3	397-400	4.8E-06	25	1.68	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
267	Benz(e)acephenanthrylene; (Benzo(b)fluoroanthene)	205-99-2			10/15/06		NA
268	Benzal chloride	98-87-3	08/21/96		10/15/06		NA
269	Benzaldehyde	100-52-7	01/04/99		10/15/06		1
270	Benzamide	55-21-0			10/15/06		NA
271	Benzenamine, sulfate (2:1)	542-16-5			10/15/06		NA
272	**Benzene**	**71-43-2**	10/31/92	02/01/08	08/08/07	GOEV, EPA	1
273	Benzene hexachloride; (Hexachlorocyclohexane, mixed isomers)	608-73-1	09/30/97	05/27/08	05/27/08	RTECS	NA
274	Benzene, 1-(chloromethyl)-4-nitro-; (p-Nitrobenzyl chloride)	100-14-1			10/15/06		NA
275	Benzenearsonic acid; (Phenylarsonic acid)	98-05-5	08/07/98		10/15/06		NA
276	Benzene-d6; (Deuterated benzene)	1076-43-3	04/15/07		04/20/07		NA
277	Benzenesulfonic acid chloride; (Benzenesulfonyl chloride)	98-09-9			10/15/06		NA
278	Benzenesulfonic acid, 4-chloro	98-66-8	06/25/07		06/25/07	RTECS.	NA
279	Benzenesulfonic acid, 5-chloro-2	z-0114	06/25/07		06/25/07	PNOS	
280	Benzenetetracarboxylic dianhydride, 1,2,4,5-	89-32-7			10/15/06		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
281	**Benzenethiol; (Thiophenol; Phenyl mercaptan)**	**108-98-5**	PFL850	110.18	ppm	Y	4.50	C6.H5..S.H
282	Benzidene	92-87-5	BBX000	184.26	mg/m3	N	7.53	C12.H12.N2
283	Benzo(a)anthracene	56-55-3	BBC250	228.30	mg/m3	N	9.33	C18.H12
284	Benzo(a)pyrene; (Coal tar pitch volatiles)	50-32-8	BCS750	252.32	mg/m3	N	10.31	C2.0.H12
285	Benzo(ghi)perylene	191-24-2	BCR000	276.34	mg/m3	N	11.29	C22.H12
286	Benzo(k)fluoranthene	207-08-9	BCJ280	252.32	mg/m3	N	10.31	C20.H12
287	Benzo-4,7,13,16,21,24-hexaoxa-1,10-diazabicyclo(8.8.8)hexacosane, 5,6-	31250-18-7	N.I.S. etc.	424.54	mg/m3	Y	17.35	(Uknown)
288	Benzoic acid	65-85-0	BCL750	122.13	mg/m3	Y	4.99	C7.H6.O2
289	Benzoic acid, sodium salt	532-32-1	SFB000	144.11	mg/m3	N	5.89	C7.H5.O2..Na
290	Benzoin oxime	441-38-3	BCP500	227.28	mg/m3	N	9.29	C14.H13.N.O2
291	**Benzonitrile**	**100-47-0**	BCQ250	103.13	ppm	Y	4.22	C7.H5.N
292	Benzophenone	119-61-9	BCS250	182.23	mg/m3	N	7.45	C13.H10.O
293	Benzoquinone, p-; (Quinone)	106-51-4	QQS200	108.10	ppm	N	4.42	C6.H4.O2
294	Benzothiazole	95-16-9	BDE500	135.19	mg/m3	N	5.53	C7.H5.N.S

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
281	**Benzenethiol; (Thiophenol; Phenyl mercaptan)**	**108-98-5**	L	-14.8	169.5	2	25	1.973 @ 25C	3	
282	Benzidene	92-87-5	S	127	400			1.25	3	
283	Benzo(a)anthracene	56-55-3	S	160	400				3	
284	Benzo(a)pyrene; (Coal tar pitch volatiles)	50-32-8	S	179	310->				3	
285	Benzo(ghi)perylene	191-24-2	S	272-273					2	
286	Benzo(k)fluoranthene	207-08-9	S	217	480	9.7E-10	25		3	
287	Benzo-4,7,13,16,21,24-hexaoxa-1,10-diazabicyclo(8.8.8)hexacosane, 5,6-	31250-18-7						0.888		
288	Benzoic acid	65-85-0	S	122	249	1	96	1.316	2	
289	Benzoic acid, sodium salt	532-32-1	S						3	
290	Benzoin oxime	441-38-3							3	
291	**Benzonitrile**	**100-47-0**	L	-12.8	191			1.246	3	9000
292	Benzophenone	119-61-9	S	49	305.4	1	108.2	1.1	3	
293	Benzoquinone, p-; (Quinone)	106-51-4	S	115.7	subl.			1.318	3	
294	Benzothiazole	95-16-9	L	2	231			1.238	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
281	**Benzenethiol; (Thiophenol; Phenyl mercaptan)**	**108-98-5**		02/25/08	01/03/08	GOEV, EPA.	NA
282	Benzidene	92-87-5	08/21/96		10/15/06		NA
283	Benzo(a)anthracene	56-55-3	09/30/97		10/15/06		NA
284	Benzo(a)pyrene; (Coal tar pitch volatiles)	50-32-8	08/21/96		10/15/06		NA
285	Benzo(ghi)perylene	191-24-2			10/15/06		NA
286	Benzo(k)fluoranthene	207-08-9			10/15/06		NA
287	Benzo-4,7,13,16,21,24-hexaoxa-1,10-diazabicyclo(8.8.8)hexacosane, 5,6-	31250-18-7			10/15/06		NA
288	Benzoic acid	65-85-0	08/07/98		10/15/06		1
289	Benzoic acid, sodium salt	532-32-1			10/15/06		NA
290	Benzoin oxime	441-38-3			05/17/07	RTECS	NA
291	**Benzonitrile**	**100-47-0**	01/04/99	02/01/08	08/09/07	EPA	NA
292	Benzophenone	119-61-9			04/20/07		NA
293	Benzoquinone, p-; (Quinone)	106-51-4	08/21/96		10/15/06		3
294	Benzothiazole	95-16-9			04/20/07		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
295	Benzotriazole	95-14-7	BDH250	119.14	mg/m3	N	4.87	C6.H5.N3
296	Benzotrifluoride	98-08-8	BDH500	146.12	mg/m3	Y	5.97	C7.H5.F3
297	**Benzoyl chloride**	**98-88-4**	BDM500	140.57	ppm	N	5.75	C7.H5.ClO
298	Benzoyl peroxide	94-36-0	BDS000	242.24	mg/m3	Y	9.90	C14.H10.O4
299	Benzyl acetate	140-11-4	BDX000	150.19	ppm	Y	6.14	C9.H10.O2
300	Benzyl alcohol	100-51-6	BDX500	108.15	ppm	Y	4.42	C7.H8.O
301	Benzyl aminopurine, 6-; (6-Benzyladenine)	1214-39-7	BDX090	225.28	mg/m3	N	9.21	C12.H11.N5
302	Benzyl benzoate	120-51-4	BCM000	212.26	mg/m3	N	8.68	C14.H12.O2
303	**Benzyl chloride**	**100-44-7**	BEE375	126.59	ppm	Y	5.17	C6.H5..C.H2.Cl
304	**Benzyl chloroformate; (Carbobenzoxy chloride)**	**501-53-1**	BEF500	170.60	ppm	Y	6.97	C8.H7.Cl.O2
305	Benzyl cyanide; (Phenylacetonitrile)	140-29-4	PEA750	117.16	mg/m3	Y	4.79	C8.H7.N
306	Benzyl trichloride; (Trichloromethylbenzene)	98-07-7	BFL250	195.47	mg/m3	N	7.99	C7.H5.Cl3
307	Benzylamine	100-46-9	BDX750	107.20	mg/m3	Y	4.38	C7.H9.N
308	Benzyldimethylamine; (Dimethylbenzylamine, N,N-; BDMA)	103-83-3	DQP800	135.23	mg/m3	Y	5.53	C9.H13.N

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
295	Benzotriazole	95-14-7	S	100	204 @ 15mm				3	
296	Benzotrifluoride	98-08-8	L	-29.1	103.46	38.83	25	1.197 @ 15.5C	3	31000
297	**Benzoyl chloride**	**98-88-4**	L	-0.5	197	1	32.1	1.22 @ 15C	3	12000
298	Benzoyl peroxide	94-36-0	S	106-108.6	dec expls				3	
299	Benzyl acetate	140-11-4	L	-51	213	0.177	25	1.05	3	
300	Benzyl alcohol	100-51-6	L	-15.3	205.3	1	58	1.05	3	13000
301	Benzyl aminopurine, 6-; (6-Benzyladenine)	1214-39-7	S	232.8					2	
302	Benzyl benzoate	120-51-4	L	21	324	0.00022	25	1.116	2	
303	**Benzyl chloride**	**100-44-7**	L	-38.9	178.9	1.23	25	1.11	3	11000
304	**Benzyl chloroformate; (Carbobenzoxy chloride)**	**501-53-1**	L		152	7	85-87	1.2166 @ 20C	3	
305	Benzyl cyanide; (Phenylacetonitrile)	140-29-4	L	-23.8	233.5	1	60	1.0214 @ 15C	3	
306	Benzyl trichloride; (Trichloromethylbenzene)	98-07-7	L	-5	221			1.38	3	
307	Benzylamine	100-46-9	L		185	0.653	25	0.983 @ 19C	2	
308	Benzyldimethylamine; (Dimethylbenzylamine, N,N-; BDMA)	103-83-3	L	-75	181			0.915 @ 10C	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
295	Benzotriazole	95-14-7			10/15/06		NA
296	Benzotrifluoride	98-08-8			10/15/06		3
297	**Benzoyl chloride**	**98-88-4**			07/30/07	AIHA	3
298	Benzoyl peroxide	94-36-0	08/07/98		10/15/06		NA
299	Benzyl acetate	140-11-4			04/20/07		1
300	Benzyl alcohol	100-51-6	09/30/97		04/20/07		1
301	Benzyl aminopurine, 6-; (6-Benzyladenine)	1214-39-7			04/20/07		1
302	Benzyl benzoate	120-51-4			10/15/06		1
303	**Benzyl chloride**	**100-44-7**	08/21/96		10/15/06		3
304	**Benzyl chloroformate; (Carbobenzoxy chloride)**	**501-53-1**		07/18/08	07/18/08	EPA	NA
305	Benzyl cyanide; (Phenylacetonitrile)	140-29-4			10/15/06		3
306	Benzyl trichloride; (Trichloromethylbenzene)	98-07-7	08/21/96		10/15/06		4
307	Benzylamine	100-46-9			10/15/06		NA
308	Benzyldimethylamine; (Dimethylbenzylamine, N,N-; BDMA)	103-83-3			10/15/06		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
309	Benzyldimethyloctadecylammonium chloride; (Dimethyloctadecylbenzylammonium	122-19-0	DTC600	424.23	mg/m3	Y	17.34	C27.H5.0.N·Cl
310	Benzylmagnesium chloride	6921-34-2	N.I.S.	150.89	mg/m3	N	6.17	C7.H7.Cl.Mg
311	Benzyltrimethylammonium hydroxide; (Triton b)	100-85-6	BFM500	167.28	mg/m3	N	6.84	C10.H16.N..H.O
312	**Beryllium**	**7440-41-7**	BFO750	9.01	mg/m3	Y	0.37	Be
313	Beryllium chloride	7787-47-5	BFQ000	79.91	mg/m3	Y	3.27	Be.Cl2
314	Beryllium fluoride	7787-49-7	BFR500	47.01	mg/m3	Y	1.92	Be.F2
315	Beryllium hydroxide	13327-32-7	BFS250	43.03	mg/m3	N	1.76	H2.O2.Be
316	Beryllium nitrate	13597-99-4	BFT000	133.03	mg/m3	N	5.44	Be.N2.O6
317	Beryllium oxide	1304-56-9	BFT250	25.01	mg/m3	N	1.02	Be.O
318	Betaine, anhydrous; (Glycine betaine)	107-43-7	GHA050	117.17	mg/m3	N	4.79	C5.H11.N.O2
319	Bicyclo(2.2.1)heptane-2-carbonitrile, 5-chloro-6-((((methylamino)carbonyl)oxy)imino)-, (IS-(1-alpha,2-beta,4-alpha,5-alpha,6E))-	15271-41-7	CFF250	241.70	mg/m3	N	9.88	C10.H12.Cl.N3.O2
320	Bioxirane, 2,2'-; (1,2:3,4-Diepoxybutane)	1464-53-5	BGA750	86.10	ppm	Y	3.52	C4.H6.O2
321	Biphenylol, 4-	92-69-3	BGJ500	170.22	mg/m3	N	6.96	C12.H10.O
322	Biphenylol, sodium salt, 2-;	132-27-4	BGJ750	192.20	mg/m3	Y	7.86	C12.H9.O.Na

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
309	Benzyldimethyloctadecylammonium chloride; (Dimethyloctadecylbenzylammonium	122-19-0	S						3	
310	Benzylmagnesium chloride	6921-34-2	S in soln					0.794	3	
311	Benzyltrimethylammonium hydroxide; (Triton b)	100-85-6	S		15				3	
312	**Beryllium**	**7440-41-7**	S	1287	2500	~0	20	1.85	3	
313	Beryllium chloride	7787-47-5	S	415	520	1	291	1.899 @ 25C	3	
314	Beryllium fluoride	7787-49-7	S	552	1160			1.986 @ 25C	3	
315	Beryllium hydroxide	13327-32-7	S	138 dec					3	
316	Beryllium nitrate	13597-99-4	S del	60	100-200 dec				3	
317	Beryllium oxide	1304-56-9	S	2507	3900			3.025	3	
318	Betaine, anhydrous; (Glycine betaine)	107-43-7	S	>300 dec					2	
319	Bicyclo(2.2.1)heptane-2-carbonitrile, 5-chloro-6-((((methylamino)carbonyl)oxy)imino)-, (IS-(1-alpha,2-beta,4-alpha,5-alpha,6E))-	15271-41-7	S						3	
320	Bioxirane, 2,2'-; (1,2:3,4-Diepoxybutane)	1464-53-5	L	19	142	16	25	1.113 @ 18C	3	
321	Biphenylol, 4-	92-69-3	S	164-165	305-308			1.27	3	
322	Biphenylol, sodium salt, 2-;	132-27-4	S						3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
309	Benzyldimethyloctadecylammonium chloride; (Dimethyloctadecylbenzylammonium	122-19-0	01/04/99		10/15/06		NA
310	Benzylmagnesium chloride	6921-34-2	04/15/07		04/20/07		NA
311	Benzyltrimethylammonium hydroxide; (Triton b)	100-85-6	04/15/07		04/20/07		NA
312	**Beryllium**	**7440-41-7**	10/31/92	04/02/08	10/15/06	GOEV, AIHA.	3
313	Beryllium chloride	7787-47-5			10/15/06		NA
314	Beryllium fluoride	7787-49-7			10/15/06		NA
315	Beryllium hydroxide	13327-32-7	07/09/97		10/15/06		NA
316	Beryllium nitrate	13597-99-4	07/09/97		10/15/06		2
317	Beryllium oxide	1304-56-9			10/15/06		NA
318	Betaine, anhydrous; (Glycine betaine)	107-43-7			04/20/07		NA
319	Bicyclo(2.2.1)heptane-2-carbonitrile, 5-chloro-6-((((methylamino)carbonyl)oxy)imino)-, (IS-(1-alpha,2-beta,4-alpha,5-alpha,6E))-	15271-41-7			10/15/06		NA
320	Bioxirane, 2,2'-; (1,2:3,4-Diepoxybutane)	1464-53-5			10/15/06		NA
321	Biphenylol, 4-	92-69-3			10/15/06		NA
322	Biphenylol, sodium salt, 2-;	132-27-4	03/01/00		10/15/06		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
323	Bis(1,1-dimethylethyl)-4-ethylphenol, 2,6-	4130-42-1	N.I.S.	234.38	mg/m3	N	9.58	C16.H26.O
324	Bis(1,1-dimethylethyl)-4-methylphenol, 2,6-; (BHT (food grade); 2,6-Di-tert-butyl-p-cresol)	128-37-0	BFW750	220.39	mg/m3	Y	9.01	C15.H24.O
325	Bis(1-methylethyl)benzene, 1,4-; (p- or 1,4-Diisopropylbenzene)	100-18-5	DNN830	162.30	mg/m3	N	6.63	C12.H18
326	Bis(1-methylethyl)benzene; (Diisopropylbenzene)	25321-09-9	DNN709	162.30	mg/m3	Y	6.63	C12.H18
327	Bis(2,3-epoxypropoxy) butane, 1,4-	2425-79-8	BOS100	202.28	mg/m3	Y	8.27	C1.0.H18.O4
328	Bis(2-butoxyethyl) ether; (Dibutyl carbitol; Diethylene glycol dibutyl ether)	112-73-2	DDW200	218.38	ppm	Y	8.93	C12.H26.O3
329	Bis(2-chlorethylthioethyl) ether; (2,2'-Di(3-chloroethylthio)diethyl ether)	63918-89-8	DFK200	263.26	mg/m3	N	10.76	C8.H16.Cl2O.S2
330	Bis(2-Chloroethoxy)ethane, 1,2-; (Triglycol dichloride)	112-26-5	TKL500	187.08	mg/m3	Y	7.65	C6.H12.Cl2.O2
331	**Bis(2-chloroethyl)sulfide; (HD; Sulfur mustard)**	**505-60-2**	BIH250	159.08	ppm	Y	6.50	C4.H8.Cl2.S
332	Bis(2-chloroethylthio)ethane, 1,2-; (Sesquimustard)	3563-36-8	SCB500	219.20	mg/m3	Y	8.96	C6.H12.Cl2.S2
333	Bis(2-chloroethylthio)methane	63869-13-6	N.I.S., etc.	205.16	mg/m3	Y	8.39	C5.H10.Cl2.S2
334	Bis(2-chloroethylthio)-n-butane, 1,4-	142868-93-7	N.I.S., etc.	247.24	mg/m3	Y	10.11	C8.H16.Cl2.S2
335	Bis(2-chloroethylthio)-n-pentane, 1,5-	142868-94-8	N.I.S., etc.	261.27	mg/m3	Y	10.68	C9.H18.Cl2.S2
336	Bis(2-chloroethylthio)-n-propane, 1,3-	63905-10-2	N.I.S., etc.	233.21	mg/m3	Y	9.53	C7.H14.Cl2.S2

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
323	Bis(1,1-dimethylethyl)-4-ethylphenol, 2,6-	4130-42-1	S	44	272					
324	Bis(1,1-dimethylethyl)-4-methylphenol, 2,6-; (BHT (food grade); 2,6-Di-tert-butyl-p-cresol)	128-37-0	S	68	265			1.048 @ 20C	2	
325	Bis(1-methylethyl)benzene, 1,4-; (p- or 1,4-Diisopropylbenzene)	100-18-5	S	64	210			0.8568 @ 20 C	2	
326	Bis(1-methylethyl)benzene; (Diisopropylbenzene)	25321-09-9	L		205	0.25-0.39	25	0.9	1	65000
327	Bis(2,3-epoxypropoxy) butane, 1,4-	2425-79-8	L		266			1.049	2	
328	Bis(2-butoxyethyl) ether; (Dibutyl carbitol; Diethylene glycol dibutyl ether)	112-73-2	L	-60-2	256			0.8853 @ 20C	2	
329	Bis(2-chlorethylthioethyl) ether; (2,2'-Di(3-chloroethylthio)diethyl ether)	63918-89-8	L?						3	
330	Bis(2-Chloroethoxy)ethane, 1,2-; (Triglycol dichloride)	112-26-5	L	-31.5	241.3	0.06	20	1.197	3	
331	**Bis(2-chloroethyl)sulfide; (HD; Sulfur mustard)**	**505-60-2**	L	13-14	215-217	0.09	30	1.2741	3	
332	Bis(2-chloroethylthio)ethane, 1,2-; (Sesquimustard)	3563-36-8							3	
333	Bis(2-chloroethylthio)methane	63869-13-6								
334	Bis(2-chloroethylthio)-n-butane, 1,4-	142868-93-7								
335	Bis(2-chloroethylthio)-n-pentane, 1,5-	142868-94-8								
336	Bis(2-chloroethylthio)-n-propane, 1,3-	63905-10-2								

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
323	Bis(1,1-dimethylethyl)-4-ethylphenol, 2,6-	4130-42-1			10/15/06		NA
324	Bis(1,1-dimethylethyl)-4-methylphenol, 2,6-; (BHT (food grade); 2,6-Di-tert-butyl-p-cresol)	128-37-0			10/15/06		2
325	Bis(1-methylethyl)benzene, 1,4-; (p- or 1,4-Diisopropylbenzene)	100-18-5	09/30/97		10/15/06		1
326	Bis(1-methylethyl)benzene; (Diisopropylbenzene)	25321-09-9			10/15/06		1
327	Bis(2,3-epoxypropoxy) butane, 1,4-	2425-79-8			10/15/06		NA
328	Bis(2-butoxyethyl) ether; (Dibutyl carbitol; Diethylene glycol dibutyl ether)	112-73-2			10/15/06		1
329	Bis(2-chlorethylthioethyl) ether; (2,2'-Di(3-chloroethylthio)diethyl ether)	63918-89-8	01/04/99		10/15/06		NA
330	Bis(2-Chloroethoxy)ethane, 1,2-; (Triglycol dichloride)	112-26-5			04/20/07		2
331	**Bis(2-chloroethyl)sulfide; (HD; Sulfur mustard)**	**505-60-2**	01/04/99	07/18/08	08/13/07	EPA	NA
332	Bis(2-chloroethylthio)ethane, 1,2-; (Sesquimustard)	3563-36-8			10/15/06		NA
333	Bis(2-chloroethylthio)methane	63869-13-6			10/15/06		NA
334	Bis(2-chloroethylthio)-n-butane, 1,4-	142868-93-7			10/15/06		NA
335	Bis(2-chloroethylthio)-n-pentane, 1,5-	142868-94-8			10/15/06		NA
336	Bis(2-chloroethylthio)-n-propane, 1,3-	63905-10-2			10/15/06		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
337	Bis(2-chloroethylthiomethyl)ether	63918-90-1	N.I.S., etc.	235.19	mg/m3	Y	9.61	C6.H12.Cl2.O.S2
338	Bis(2-ethoxyethyl) ether; (Diethyl carbitol)	112-36-7	DIW800	162.26	mg/m3	Y	6.63	C8.H18.O3
339	Bis(2-ethylhexyl) hydrogen phosphate	298-07-7	BJR750	322.48	mg/m3	Y	13.18	C16.H35.O4.P
340	Bis(2-ethylhexyl) phenyl phosphate	16368-97-1	BJR625	398.58	mg/m3	N	16.29	C22.H39.O4.P
341	Bis(2-hydroxyethyl)dodecanamide, N,N-	120-40-1	BKE500	287.50	ppm	Y	11.75	C16.H33.N.O3
342	Bis(2-methylstyryl)benzene, 4-; (1,4-Bis(2-(2-methylphenyl)ethenyl)benzene)	13280-61-0	N.I.S.	310.43	mg/m3	N	12.69	C24.H22
343	Bis(3-tert-butyl-4-hydroxy-6-methylphenyl) sulfide	96-69-5	TFC600	358.54	mg/m3	N	14.65	C22.H30.O2.S
344	Bis(chloromethyl)ketone; (1,3-Dichloroacetone)	534-07-6	BIK250	126.97	mg/m3	Y	5.19	C3.H4.Cl2O
345	Bis(chloromethyl)oxetane, 3,3-	78-71-7	BIK325	155.03	mg/m3	N	6.34	C5.H8.Cl2O
346	Bis(Dimethylamino)acridine, 3,6-; (Acridine orange)	494-38-2	BJF000	265.39	mg/m3	N	10.85	C17.H19.N3
347	Bis(trifluoromethyl)benzene, 1,3-	402-31-3	BLO270	214.11	mg/m3	N	8.75	C8.H4.O6
348	Bis(tris(hydroxymethyl)methylamino)propane, 1,3-; (Bis-tris propane)	64431-96-5	N.I.S. etc.	282.34	mg/m3	N	11.54	C11.H26.N2.O6
349	Bis[(benzo-15-crown-5)-15-ylmethyl] pimelate	69271-98-3	N.I.S. etc.		mg/m3	N		(Unknown)
350	Bisbutenylenetetrahydrofurfural; (2,3,4,5-bis(2-butylene)tetrahydro-2-furaldehyde)	126-15-8	BHJ500	204.29	mg/m3	N	8.35	C13.H16.O2

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
337	Bis(2-chloroethylthiomethyl)ether	63918-90-1								
338	Bis(2-ethoxyethyl) ether; (Diethyl carbitol)	112-36-7	L	-44	189			0.9082	3	
339	Bis(2-ethylhexyl) hydrogen phosphate	298-07-7	L		155.015			0.97525	3	
340	Bis(2-ethylhexyl) phenyl phosphate	16368-97-1	S						3	
341	Bis(2-hydroxyethyl)dodecanamide, N,N-	120-40-1	S	36.7					2	
342	Bis(2-methylstyryl)benzene, 4-; (1,4-Bis(2-(2-methylphenyl)ethenyl)benzene)	13280-61-0	S	180						
343	Bis(3-tert-butyl-4-hydroxy-6-methylphenyl) sulfide	96-69-5	S	150				1.10	3	
344	Bis(chloromethyl)ketone; (1,3-Dichloroacetone)	534-07-6	S	45	173			1.3826 @ 46C	3	
345	Bis(chloromethyl)oxetane, 3,3-	78-71-7	L	18.7	200	0.5	25	1.295 @ 25C	3	
346	Bis(Dimethylamino)acridine, 3,6-; (Acridine orange)	494-38-2	S	180-181					3	
347	Bis(trifluoromethyl)benzene, 1,3-	402-31-3	L		116			1.378	3	
348	Bis(tris(hydroxymethyl)methylamino)propane, 1,3-; (Bis-tris propane)	64431-96-5	S	164						
349	Bis[(benzo-15-crown-5)-15-ylmethyl] pimelate	69271-98-3	S							
350	Bisbutenylenetetrahydrofurfural; (2,3,4,5-bis(2-butylene)tetrahydro-2-furaldehyde)	126-15-8	L	-80	307			1.10 @ 20C	2	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
337	Bis(2-chloroethylthiomethyl)ether	63918-90-1			10/15/06		NA
338	Bis(2-ethoxyethyl) ether; (Diethyl carbitol)	112-36-7	01/04/99		10/15/06		1
339	Bis(2-ethylhexyl) hydrogen phosphate	298-07-7	08/07/98		10/15/06		2
340	Bis(2-ethylhexyl) phenyl phosphate	16368-97-1			10/15/06		NA
341	Bis(2-hydroxyethyl)dodecanamide, N,N-	120-40-1			10/15/06		NA
342	Bis(2-methylstyryl)benzene, 4-; (1,4-Bis(2-(2-methylphenyl)ethenyl)benzene)	13280-61-0	07/09/97		10/15/06		NA
343	Bis(3-tert-butyl-4-hydroxy-6-methylphenyl) sulfide	96-69-5			10/15/06		NA
344	Bis(chloromethyl)ketone; (1,3-Dichloroacetone)	534-07-6			10/15/06		NA
345	Bis(chloromethyl)oxetane, 3,3-	78-71-7			10/15/06		NA
346	Bis(Dimethylamino)acridine, 3,6-; (Acridine orange)	494-38-2			10/15/06		NA
347	Bis(trifluoromethyl)benzene, 1,3-	402-31-3			10/15/06		NA
348	Bis(tris(hydroxymethyl)methylamino)propane, 1,3-; (Bis-tris propane)	64431-96-5			10/15/06		NA
349	Bis[(benzo-15-crown-5)-15-ylmethyl] pimelate	69271-98-3			10/15/06		NA
350	Bisbutenylenetetrahydrofurfural; (2,3,4,5-bis(2-butylene)tetrahydro-2-furaldehyde)	126-15-8			10/15/06		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
351	Bismuth	7440-69-9	BKU750	208.98	mg/m3	N	8.54	Bi
352	Bismuth acetate	22306-37-2	N.I.S.	386.11	mg/m3	N	15.78	Bi.C6.H9.O6
353	Bismuth germanate	12233-73-7	BKV750	297.59	mg/m3	N	12.16	Bi.Ge.O
354	Bismuth hydroxide	10361-43-0	N.I.S.	260.00	mg/m3	N	10.63	Bi.(O.H)3
355	Bismuth hydroxide nitrate oxide; (White paint)	1304-85-4	BKW100	1462.03	mg/m3	Y	59.76	Bi5.H9.N4.O22
356	Bismuth iodide	7787-64-6	N.I.S.	589.69	mg/m3	Y	24.10	Bi.I3
357	Bismuth nitrate	10361-44-1	BKW250	395.01	mg/m3	N	16.14	Bi.N3.O9
358	Bismuth oxide	1304-76-3	BKW600	465.96	mg/m3	N	19.04	Bi2.O3
359	Bismuth oxychloride	7787-59-9	N.I.S.	260.43	mg/m3	Y	10.64	Bi.O.Cl
360	Bismuth(III) nitrate, pentahydrate	10035-06-0	N.I.S.	485.07	mg/m3	N	19.83	Bi.H10.N3.O14
361	Bisphenol A	80-05-7	BLD500	228.31	mg/m3	N	9.33	(C.H3)2..C.(C6.H4.O.H)2
362	Bisphenol A diglycidyl ether	1675-54-3	BLD750	340.45	mg/m3	Y	13.91	C21H24O4
363	Bitoscanate; (1,4-Phenylenediisothiocyanic acid)	4044-65-9	PFA500	192.26	mg/m3	N	7.86	C8.H4.N2.S2
364	BoBCalix; (Calix[4]arene-bis(t-octylbenzo-crown-b)	z-0110	N,I,S, etc.	1149.516	mg/m3	N	46.98	C72.H92.O12

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
351	Bismuth	7440-69-9	S	271.3	1420-1560	1	1021	9.8	3	
352	Bismuth acetate	22306-37-2	S	250						
353	Bismuth germanate	12233-73-7							3	
354	Bismuth hydroxide	10361-43-0	S							
355	Bismuth hydroxide nitrate oxide; (White paint)	1304-85-4	L (?)						1	
356	Bismuth iodide	7787-64-6	S	408	ca. 500			5.778		
357	Bismuth nitrate	10361-44-1	S	30	80 dec			2.83	3	
358	Bismuth oxide	1304-76-3	S						1	
359	Bismuth oxychloride	7787-59-9	S		dec			7.7 @ 20C		
360	Bismuth(III) nitrate, pentahydrate	10035-06-0	S	30 dec.				2.83		
361	Bisphenol A	80-05-7	S						3	
362	Bisphenol A diglycidyl ether	1675-54-3	L					1.16 @ 20C	3	
363	Bitoscanate; (1,4-Phenylenediisothiocyanic acid)	4044-65-9	S	132					3	
364	BoBCalix; (Calix[4]arene-bis(t-octylbenzo-crown-b)	z-0110	S	80						

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
351	Bismuth	7440-69-9	01/04/99		10/15/06		NA
352	Bismuth acetate	22306-37-2			10/15/06		NA
353	Bismuth germanate	12233-73-7	08/07/98		10/15/06		NA
354	Bismuth hydroxide	10361-43-0			10/15/06		NA
355	Bismuth hydroxide nitrate oxide; (White paint)	1304-85-4	09/30/97		10/15/06		NA
356	Bismuth iodide	7787-64-6			10/15/06		NA
357	Bismuth nitrate	10361-44-1	08/07/98		10/15/06		NA
358	Bismuth oxide	1304-76-3	01/04/99		10/15/06		NA
359	Bismuth oxychloride	7787-59-9			10/15/06		NA
360	Bismuth(III) nitrate, pentahydrate	10035-06-0			10/15/06		NA
361	Bisphenol A	80-05-7	08/21/96		10/15/06		NA
362	Bisphenol A diglycidyl ether	1675-54-3	01/04/99		10/15/06		NA
363	Bitoscanate; (1,4-Phenylenediisothiocyanic acid)	4044-65-9			10/15/06		NA
364	BoBCalix; (Calix[4]arene-bis(t-octylbenzo-crown-b)	z-0110			04/20/07		

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
365	Borane methyl sulfide complex; (Methyl sulfide complex with borane (1:1))	13292-87-0	MPL250	75.98	ppm	Y	3.11	C2.H6.S..B.H3
366	Borane-tetrahydrofuran	14044-65-6	BMB300	85.93	mg/m3	Y	3.51	B.H3 - C4.H8.O
367	Borate	14213-97-9	N.I.S.etc.	58.81	mg/m3	N	2.40	B.O3
368	Boric acid	10043-35-3	BMC000	61.84	mg/m3	Y	2.53	BH3O3
369	Boric acid, tributyl ester; (Tri-n-butyl borate)	688-74-4	THX750	230.20	ppm	Y	9.41	C12.H27.B.O3
370	Boron	7440-42-8	BMD500	10.81	mg/m3	N	0.44	B
371	Boron carbide	12069-32-8	N.I.S.	55.30	mg/m3	N	2.26	B4C
372	Boron nitride	10043-11-5	N.I.S.	24.82	mg/m3	N	1.01	B.N
373	Boron oxide	1303-86-2	BMG000	69.62	mg/m3	N	2.85	B2.O3
374	**Boron tribromide**	**10294-33-4**	BMG400	250.54	ppm	Y	10.24	B.Br3
375	Boron trichloride	10294-34-5	BMG500	117.16	ppm	Y	4.79	B.Cl3
376	**Boron trifluoride**	**7637-07-2**	BMG700	67.81	mg/m3	Y	2.77	B.F3
377	Boron trifluoride etherate	109-63-7	BMH250	141.93	mg/m3	Y	5.80	C4.H10.B.F3.O
378	**Boron trifluoride-dimethyl ether**	**353-42-4**	BMH000	113.89	mg/m3	N	4.65	C2.H6.O..B.F3

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
365	Borane methyl sulfide complex; (Methyl sulfide complex with borane (1:1))	13292-87-0	L	-27	~34			0.789	3	
366	Borane-tetrahydrofuran	14044-65-6	L		> 69			0.898		
367	Borate	14213-97-9	S							
368	Boric acid	10043-35-3	S	185 dec				1.435	3	
369	Boric acid, tributyl ester; (Tri-n-butyl borate)	688-74-4	L	<-70	230			0.847 @ 20C	3	
370	Boron	7440-42-8	S	2190	3660			2.45	3	
371	Boron carbide	12069-32-8	S	2350	3500	~0	20			
372	Boron nitride	10043-11-5	S	2966				2.18		
373	Boron oxide	1303-86-2	S	450	2250			2.46	2	
374	**Boron tribromide**	**10294-33-4**	L	-46	91.3	40	14	2.650 @ 0C	3	
375	Boron trichloride	10294-34-5	L	-107	12.5	760	12.7	1.349	3	
376	**Boron trifluoride**	**7637-07-2**	G	-128.4	-100	760	25	2.99	3	
377	Boron trifluoride etherate	109-63-7	L	-58	126			1.3572 @ 20C	3	
378	**Boron trifluoride-dimethyl ether**	**353-42-4**	L	-14	126-127	20	25	1.239	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
365	Borane methyl sulfide complex; (Methyl sulfide complex with borane (1:1))	13292-87-0			04/20/07		NA
366	Borane-tetrahydrofuran	14044-65-6			10/15/06		NA
367	Borate	14213-97-9			04/20/07		NA
368	Boric acid	10043-35-3	08/21/96		10/15/06		NA
369	Boric acid, tributyl ester; (Tri-n-butyl borate)	688-74-4			10/15/06		2
370	Boron	7440-42-8	09/30/97		10/15/06		NA
371	Boron carbide	12069-32-8	08/21/96		10/15/06		NA
372	Boron nitride	10043-11-5			10/15/06		NA
373	Boron oxide	1303-86-2	08/07/98		10/15/06		NA
374	**Boron tribromide**	**10294-33-4**		07/19/08	07/02/08	EPA.	3
375	Boron trichloride	10294-34-5	01/04/99		10/15/06		NA
376	**Boron trifluoride**	**7637-07-2**	08/07/98	07/18/08	01/14/08	EPA	4
377	Boron trifluoride etherate	109-63-7			10/15/06		3
378	**Boron trifluoride-dimethyl ether**	**353-42-4**	03/01/00	07/18/08	08/13/07	EPA	NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
379	Botulinum toxin-A	93384-43-1	BMM292		mg/m3	N		
380	Botulinum toxin-B	z-0117	N.I.S.		mg/m3	N		
381	Botulinum toxin-F	z-0118	N.I.S.		mg/m3	N		
382	Botulinum, clostridium	z-0119	CMY030		mg/m3	N		
383	Brij-35; (alpha-Dodecyl-omega-hydroxypolyoxy-ethylene)	9002-92-0	DXY000		mg/m3	Y		(C2.H4.O)n..C12.H26.O
384	Brilliant blue	2650-18-2	FMU059	783.01	mg/m3	N	32.00	C37.H36.N2.O9.S3-2(N.H3)
385	Bromadiolone	28772-56-7	BMN000	527.11	mg/m3	N	21.54	C30.H23.Br.O4
386	**Bromine**	**7726-95-6**	BMP000	159.80	ppm	Y	6.53	Br2
387	**Bromine chloride**	**13863-41-7**	N.I.S.	115.36	ppm	N	4.71	Br.Cl
388	**Bromine pentafluoride**	**7789-30-2**	BMQ000	174.91	ppm	Y	7.15	Br.F5
389	**Bromine trifluoride**	**7787-71-5**	BMQ325	136.91	ppm	Y	5.60	Br.F3
390	Bromo acetic acid, methyl ester	96-32-2	MHR250	152.99	mg/m3	N	6.25	C3.H5.Br.O2
391	Bromo-1-chloro-5,5-dimethylhydantoin, 3-; (Bromo-1-chloro-5,5-dimethyl-2,4-imidazolidinedione, 3-)	126-06-7	BNA325	241.49	mg/m3	Y	9.87	C5.H6.Br.Cl.N2.O2
392	Bromo-2-chloro-1,1,2-trifluoroethane, 1-; (1,1,2-Trifluoro-1-bromo-2-chloroethane)	354-06-3	TJY000	197.39	ppm	N	8.07	C2.H.Br.Cl.F3

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
379	Botulinum toxin-A	93384-43-1								
380	Botulinum toxin-B	z-0117								
381	Botulinum toxin-F	z-0118								
382	Botulinum, clostridium	z-0119								
383	Brij-35; (alpha-Dodecyl-omega-hydroxypolyoxy-ethylene)	9002-92-0	L	40-42				1.02 @ 20C	3	
384	Brilliant blue	2650-18-2	S						3	
385	Bromadiolone	28772-56-7	S	200-210					3	
386	**Bromine**	**7726-95-6**	L	-7.2	59.4	172	20	2.928	3	
387	**Bromine chloride**	**13863-41-7**	S							
388	**Bromine pentafluoride**	**7789-30-2**	L fuming	-60.5	40.5	328	20	2.466	3	
389	**Bromine trifluoride**	**7787-71-5**	L	8.8	127	18	39	2.84	3	
390	Bromo acetic acid, methyl ester	96-32-2	L		145			1.616	3	
391	Bromo-1-chloro-5,5-dimethylhydantoin, 3-; (Bromo-1-chloro-5,5-dimethyl-2,4-imidazolidinedione, 3-)	126-06-7	S						2	
392	Bromo-2-chloro-1,1,2-trifluoroethane, 1-; (1,1,2-Trifluoro-1-bromo-2-chloroethane)	354-06-3	G	-168	-57.8	>760	20		1	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
379	Botulinum toxin-A	93384-43-1	05/20/08	05/20/08	05/20/08	RTEC	
380	Botulinum toxin-B	z-0117	05/20/08	05/20/08	05/20/08	RTEC	
381	Botulinum toxin-F	z-0118	05/20/08	05/20/08	05/20/08	RTEC	
382	Botulinum, clostridium	z-0119	05/20/08	05/20/08	05/20/08	RTEC	
383	Brij-35; (alpha-Dodecyl-omega-hydroxypolyoxy-ethylene)	9002-92-0			08/24/07	RTECS.	
384	Brilliant blue	2650-18-2			10/15/06		NA
385	Bromadiolone	28772-56-7			10/15/06		NA
386	**Bromine**	**7726-95-6**	10/31/92	07/18/08	08/13/07	EPA.	3
387	**Bromine chloride**	**13863-41-7**		07/19/08	07/02/08	EPA.	NA
388	**Bromine pentafluoride**	**7789-30-2**		07/18/08	08/13/07	GOEV, EPA..	4
389	**Bromine trifluoride**	**7787-71-5**		07/18/08	10/15/06	EPA.	4
390	Bromo acetic acid, methyl ester	96-32-2			10/15/06		NA
391	Bromo-1-chloro-5,5-dimethylhydantoin, 3-; (Bromo-1-chloro-5,5-dimethyl-2,4-imidazolidinedione, 3-)	126-06-7	11/15/96		10/15/06		NA
392	Bromo-2-chloro-1,1,2-trifluoroethane, 1-; (1,1,2-Trifluoro-1-bromo-2-chloroethane)	354-06-3	08/07/98		10/15/06		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
393	Bromo-3-chloro-5,5-dimethylhydantoin, 1-; (1-Bromo-3-chloro-5,5-dimethyl-2,4-imidazolidinedione)	16079-88-2	BNA300	241.49	mg/m3	N	9.87	C5.H6.Br.Cl.O2.N2
394	Bromo-3-methylbutane, 1-	107-82-4	BNP250	151.05	ppm	N	6.17	C5.H11.Br
395	Bromoacetaldehyde diethyl acetul	2032-35-1	N.I.S.	197.07	mg/m3	N	8.05	C6.H13.Br.O2
396	Bromoacetic acid	79-08-3	BMR750	138.96	mg/m3	Y	5.68	C2.H3.O2.Br
397	Bromoacetone	598-31-2	BNZ000	136.99	ppm	N	5.60	C3.H5.Br.O
398	Bromoanisole, 99, 3-	2398-37-0	N.I.S.	187.03	mg/m3	N	7.64	C7.H7.Br. O
399	Bromobenzene; (Phenyl bromide)	108-86-1	PEO500	157.02	ppm	Y	6.42	C6.H5.Br
400	Bromochlorobenzene, m-	108-37-2	N.I.S.	191.46	mg/m3	N	7.83	C6.H4.Br.Cl
401	Bromochlorobenzene, p-	106-39-8	N.I.S.	191.46	mg/m3	N	7.83	C6.H4.Br.Cl
402	Bromochloromethane	74-97-5	CES650	129.39	ppm	N	5.29	C.H2.Br.Cl
403	Bromocresol green	76-60-8	N.I.S.	698.05	mg/m3	N	28.53	C21.H14.Br4.O5.S
404	Bromocresol purple	115-40-2	N.I.S.	540.22	mg/m3	N	22.08	C21.H16.Br2.O5.S
405	Bromocyclohexanol, Cis-2-	16536-57-5	N.I.S. etc.	179.06	ppm	N	7.32	C6.H11.Br.O
406	Bromodecane, 1-	112-29-8	BNB800	221.22	ppm	N	9.04	C10.H21.Br

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
393	Bromo-3-chloro-5,5-dimethylhydantoin, 1-; (1-Bromo-3-chloro-5,5-dimethyl-2,4-imidazolidinedione)	16079-88-2	S	160					2	
394	Bromo-3-methylbutane, 1-	107-82-4	L	-112	120-121			1.207	3	
395	Bromoacetaldehyde diethyl acetul	2032-35-1	S		170-172			1.31	2	
396	Bromoacetic acid	79-08-3	S hygr	50	208				3	
397	Bromoacetone	598-31-2	G	-36.5	138	9	20	1.634	3	
398	Bromoanisole, 99, 3-	2398-37-0	S		211			1.49		
399	Bromobenzene; (Phenyl bromide)	108-86-1	L	-30.5	156.6	10	40	1.499	3	5000
400	Bromochlorobenzene, m-	108-37-2	L?							
401	Bromochlorobenzene, p-	106-39-8	L?							
402	Bromochloromethane	74-97-5	L	-88	67.8			1.93	3	120000
403	Bromocresol green	76-60-8	S							
404	Bromocresol purple	115-40-2								
405	Bromocyclohexanol, Cis-2-	16536-57-5						1.4604 @ 20C		
406	Bromodecane, 1-	112-29-8	L	-29.2	240.6			1.0702 @ 20C	2	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
393	Bromo-3-chloro-5,5-dimethylhydantoin, 1-; (1-Bromo-3-chloro-5,5-dimethyl-2,4-imidazolidinedione)	16079-88-2	07/09/97		10/15/06		NA
394	Bromo-3-methylbutane, 1-	107-82-4			04/20/07		NA
395	Bromoacetaldehyde diethyl acetul	2032-35-1			04/20/07		NA
396	Bromoacetic acid	79-08-3			04/20/07		NA
397	Bromoacetone	598-31-2	08/21/96		10/15/06		NA
398	Bromoanisole, 99, 3-	2398-37-0			04/20/07		NA
399	Bromobenzene; (Phenyl bromide)	108-86-1	09/30/97		10/15/06		1
400	Bromochlorobenzene, m-	108-37-2	09/30/97		10/15/06		NA
401	Bromochlorobenzene, p-	106-39-8	08/07/98		10/15/06		NA
402	Bromochloromethane	74-97-5	01/04/99		10/15/06		NA
403	Bromocresol green	76-60-8	01/04/99		10/15/06		NA
404	Bromocresol purple	115-40-2	01/04/99		10/15/06		NA
405	Bromocyclohexanol, Cis-2-	16536-57-5			10/15/06		NA
406	Bromodecane, 1-	112-29-8			04/20/07		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
407	Bromodichloromethane	75-27-4	BND500	163.83	mg/m3	N	6.70	C.H.Br.Cl2
408	Bromododecane, 1-	143-15-7	N.I.S.	249.23	mg/m3	Y	10.19	C12.H25.Br
409	Bromoethane; (Ethyl bromide)	74-96-4	EGV400	108.98	ppm	Y	4.45	C2.H5.Br
410	Bromoethanol , 2- (ethylene bromohydrin)	540-51-2	BNI500	124.98	mg/m3	N	5.11	C2.H5.Br.O
411	Bromoethylmagnesium	925-90-6	N.I.S.	133.27	mg/m3	N	5.45	C.H3.C.H2.Mg.Br
412	Bromofluorobenzene, 4-; (p-fluorobromobenzene)	460-00-4	N.I.S.	175.01	mg/m3	N	7.15	C6.H4.Br.F
413	Bromoform; (Tribromomethane)	75-25-2	BNL000	252.75	ppm	Y	10.33	C.H.Br3
414	Bromohexane; (n-Hexyl bromide)	111-25-1	HFM500	165.10	ppm	N	6.75	C6.H13.Br
415	Bromomesitylene, 2-; (2-Bromo-1,3,5-trimethylbenzene)	576-83-0	N.I.S.	199.09	mg/m3	N	8.14	C9.H11.Br
416	Bromomethyl-1,3-dioxolane, 2-	4360-63-8	N,I,S,	167.00	mg/m3	Y	6.83	C4.H7.Br.O2
417	Bromonaphthalene	90-11-9	BNS200	207.08	mg/m3	N	8.46	C10.H7.Br
418	Bromonitromethane	563-70-2	N.I.S.	139.95	mg/m3	N	5.72	Br.C.H2.N.O2
419	Bromooctane , 1-; (Octyl bromide)	111-83-1	BNU000	193.16	ppm	N	7.89	C8.H17.Br
420	Bromophenol blue	115-39-9	N.I.S.	669.99	mg/m3	N	27.38	C19.H10.Br4.O5.S

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
407	Bromodichloromethane	75-27-4	L	-57.1	88.5			1.971	3	
408	Bromododecane, 1-	143-15-7	L	-11 to -9	145 @ 15			1.038	2	
409	Bromoethane; (Ethyl bromide)	74-96-4	L	-119	38.4	400	21	1.451 @ 20C	3	67000
410	Bromoethanol , 2- (ethylene bromohydrin)	540-51-2	L		150			1.7629 @ 20C	3	
411	Bromoethylmagnesium	925-90-6	S					1.02	3	
412	Bromofluorobenzene, 4-; (p-fluorobromobenzene)	460-00-4	L	-17.4	151.5			1.593 @ 15C		
413	Bromoform; (Tribromomethane)	75-25-2	L	8.3	149.4	5	20	2.887	3	
414	Bromohexane; (n-Hexyl bromide)	111-25-1	L	-84.7	155.3			1.1744 @ 20C	2	
415	Bromomesitylene, 2-; (2-Bromo-1,3,5-trimethylbenzene)	576-83-0	L	-1	225			1.301		
416	Bromomethyl-1,3-dioxolane, 2-	4360-63-8	L		80-82 @ 27 mm			1.613	2	
417	Bromonaphthalene	90-11-9	S						2	
418	Bromonitromethane	563-70-2	L		146-148			2.007	2	
419	Bromooctane , 1-; (Octyl bromide)	111-83-1	L	-55	201.5			1.11	1	
420	Bromophenol blue	115-39-9	S	279 dec						

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
407	Bromodichloromethane	75-27-4	01/04/99		10/15/06		NA
408	Bromododecane, 1-	143-15-7			04/20/07		1
409	Bromoethane; (Ethyl bromide)	74-96-4		02/22/08	02/22/08	GOEV, NIOSH, RTECS.	3
410	Bromoethanol , 2- (ethylene bromohydrin)	540-51-2			04/20/07		NA
411	Bromoethylmagnesium	925-90-6			04/20/07		NA
412	Bromofluorobenzene, 4-; (p-fluorobromobenzene)	460-00-4			04/20/07		NA
413	Bromoform; (Tribromomethane)	75-25-2	08/21/96		10/15/06		NA
414	Bromohexane; (n-Hexyl bromide)	111-25-1			04/20/07		NA
415	Bromomesitylene, 2-; (2-Bromo-1,3,5-trimethylbenzene)	576-83-0			04/20/07		NA
416	Bromomethyl-1,3-dioxolane, 2-	4360-63-8			04/20/07		NA
417	Bromonaphthalene	90-11-9	08/07/98		10/15/06		NA
418	Bromonitromethane	563-70-2			04/20/07		NA
419	Bromooctane , 1-; (Octyl bromide)	111-83-1			04/20/07		NA
420	Bromophenol blue	115-39-9			04/20/07		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
421	Bromophenyl phenyl ether, 4-	101-55-3	N.I.S	249.11	mg/m3	N	10.18	C12.H9.Br.O
422	Bromopropane, 1-	106-94-5	BNX750	123.01	ppm	N	5.03	Br.C3.H7
423	Bromopropane, 2-	75-26-3	BNY000	122.98	ppm	N	5.03	C3.H7.Br
424	Bromopyrene, 3-	1714-29-0	N.I.S. etc.	281.15	mg/m3	N	11.49	C16.H9.Br
425	Bromosuccinimide, N-	128-08-5	BOF500	178.00	mg/m3	Y	7.28	C4.H4.Br.N.O2
426	Bromothymol blue	76-59-5	N.I.S.	624.43	mg/m3	N	25.52	C27.H28.Br2.O5.S
427	Bromotoluene, A-; (Benzyl bromide)	100-39-0	BEC000	171.05	mg/m3	Y	6.99	C7.H7.Br
428	Bromotrichloromethane	75-62-7	BOH750	198.27	ppm	N	8.10	Br..C.Cl3
429	Bromotrifluoroethylene	598-73-2	BOJ000	160.94	ppm	N	6.58	F3.C2.Br
430	Bromotrifluoromethane; (Trifluorobromomethane)	75-63-8	TJY100	148.92	ppm	Y	6.09	C.Br.F3
431	Bromotrimethylsilane; (Trimethylsilyl bromide)	2857-97-8	N.I.S.	153.09	mg/m3	Y	6.26	(C.H3)3.Si.Br
432	Brown menhaden fish oil	68440-42-6	N.I.S.		mg/m3	N		
433	Brucine; (2,3-Dimethoxystrychnine)	357-57-3	BOL750	394.51	mg/m3	Y	16.12	C23.H26.N2.O4
434	Buffer solution, aequeous	7732-18-5	WAT259	18.02	mg/m3	N	0.74	H2.O

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
421	Bromophenyl phenyl ether, 4-	101-55-3	L	18.72	310.1	0.0015	20	1.6088 @ 20C		
422	Bromopropane, 1-	106-94-5	L	-110	71	110.8	18	1.35	3	46000
423	Bromopropane, 2-	75-26-3	L	-89	59.35	216	25	1.31 @ 20C	3	
424	Bromopyrene, 3-	1714-29-0	S							
425	Bromosuccinimide, N-	128-08-5	S	174				2.098	3	
426	Bromothymol blue	76-59-5	S	201						
427	Bromotoluene, A-; (Benzyl bromide)	100-39-0	L	3	201	0.45	25	1.738	2	
428	Bromotrichloromethane	75-62-7	L	-5.8	104.2	39	25	2.012	3	
429	Bromotrifluoroethylene	598-73-2	G		-2.5				3	
430	Bromotrifluoromethane; (Trifluorobromomethane)	75-63-8	G	-168	-58	>760		1.58	1	
431	Bromotrimethylsilane; (Trimethylsilyl bromide)	2857-97-8	L		79			1.16	3	
432	Brown menhaden fish oil	68440-42-6								
433	Brucine; (2,3-Dimethoxystrychnine)	357-57-3	S	178	470				3	
434	Buffer solution, aequeous	7732-18-5	L	0	100			1	1	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
421	Bromophenyl phenyl ether, 4-	101-55-3			10/15/06		NA
422	Bromopropane, 1-	106-94-5	01/04/99		10/15/06		2
423	Bromopropane, 2-	75-26-3			10/15/06		NA
424	Bromopyrene, 3-	1714-29-0			10/15/06		NA
425	Bromosuccinimide, N-	128-08-5			10/15/06		NA
426	Bromothymol blue	76-59-5			10/15/06		NA
427	Bromotoluene, A-; (Benzyl bromide)	100-39-0			10/15/06		NA
428	Bromotrichloromethane	75-62-7			10/15/06		NA
429	Bromotrifluoroethylene	598-73-2			10/15/06		NA
430	Bromotrifluoromethane; (Trifluorobromomethane)	75-63-8	10/31/92		10/15/06		NA
431	Bromotrimethylsilane; (Trimethylsilyl bromide)	2857-97-8	04/15/07		04/20/07		NA
432	Brown menhaden fish oil	68440-42-6	04/15/07		04/20/07		NA
433	Brucine; (2,3-Dimethoxystrychnine)	357-57-3	08/21/96		10/15/06		NA
434	Buffer solution, aequeous	7732-18-5			10/15/06		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
435	**Butadiene,1,3-**	**106-99-0**	BOP500	54.10	ppm	Y	2.21	C.H2=C.H.C.H=C.H2
436	Butanaminium,N,N,N-tributyl bromide, 1-; (Tetrabutylammonium bromide)	1643-19-2	TBK500	322.44	mg/m3	N	13.18	C16.H36.N..Br
437	**Butane**	**106-97-8**	BOR500	58.14	ppm	N	2.38	C4.H10
438	Butanedioic acid, diethyl ester; (Succinic acid, diethyl ester)	123-25-1	SNB000	174.22	ppm	Y	7.12	C.8.H14.O4
439	Butanedioic acid, dimethyl ester; (Succinic acid, dimethyl ester)	106-65-0	SNB100	146.16	ppm	N	5.97	C6.H10.O4
440	Butanediol dinitrate, 1,4-	3457-91-8	N.I.S. etc.	180.00	ppm	N	7.36	[Unknown]
441	Butanediol, 1,3-	107-88-0	107-88-0	90.18	mg/m3	Y	3.69	C4.H10.O2
442	Butanediol, 1,4-; (1,4-Tetramethylene glycol)	110-63-4	BOS750	90.14	mg/m3	N	3.68	C4.H10.O
443	Butanedione, 2,3-	431-03-8	BOT500	86.10	mg/m3	Y	3.52	C,H3,C,O,,C,O,C,H3
444	Butanenitrile; (Butyronitrile)	109-74-0	BSX250	69.12	ppm	N	2.83	C4.H7.N
445	Butanephosphonic acid	3321-64-0	N.I.S. etc.	138.10	mg/m3	N	5.64	C4.H11.O3.P
446	Butanethiol; (n-Butyl mercaptan)	109-79-5	BRR900	90.20	ppm	Y	3.69	C4.H10.S
447	Butanoic acid, butyl ester; (n-Butyl n-butanoate)	109-21-7	BQM500	144.24	ppm	Y	5.90	C8.H16.O2
448	Butanol, aluminum salt, 2-	2269-22-9	N.I.S.	246.32	mg/m3	N	10.07	C12.H27.Al.O3

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
435	**Butadiene,1,3-**	**106-99-0**	G	-108.9	-4.4	>760		0.621	3	20000
436	Butanaminium,N,N,N-tributyl bromide, 1-; (Tetrabutylammonium bromide)	1643-19-2	S	102-104					D	
437	**Butane**	**106-97-8**	G	-135	-0.5	1520	18.8	0.599	3	16000
438	Butanedioic acid, diethyl ester; (Succinic acid, diethyl ester)	123-25-1	L	-21	217.7				2	11000
439	Butanedioic acid, dimethyl ester; (Succinic acid, dimethyl ester)	106-65-0	L	19.5	195.3			1.1202 @ 18C	1	10000
440	Butanediol dinitrate, 1,4-	3457-91-8								
441	Butanediol, 1,3-	107-88-0	L	<-50	207.5	0.06	20	1.006 @ 20C	1	
442	Butanediol, 1,4-; (1,4-Tetramethylene glycol)	110-63-4	L	16	230	0.0105	25	3.1	3	
443	Butanedione, 2,3-	431-03-8	L	-2.4	88	56.8	25	0.990 @ 15C	3	
444	Butanenitrile; (Butyronitrile)	109-74-0	L	-112.6	117	19.5	25	0.796 @ 15C	3	16500
445	Butanephosphonic acid	3321-64-0								
446	Butanethiol; (n-Butyl mercaptan)	109-79-5	L	-116	98			0.8365	3	14000
447	Butanoic acid, butyl ester; (n-Butyl n-butanoate)	109-21-7	L		166			0.872 @ 20C	3	
448	Butanol, aluminum salt, 2-	2269-22-9	L		197 @ 20C					

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
435	**Butadiene,1,3-**	**106-99-0**	10/31/92	02/22/08	08/13/07	GOEV, EPA.	2
436	Butanaminium,N,N,N-tributyl bromide, 1-; (Tetrabutylammonium bromide)	1643-19-2			10/15/06		NA
437	**Butane**	**106-97-8**	01/04/99	02/01/08	08/13/07	GOEV, EPA.	1
438	Butanedioic acid, diethyl ester; (Succinic acid, diethyl ester)	123-25-1			10/15/06		1
439	Butanedioic acid, dimethyl ester; (Succinic acid, dimethyl ester)	106-65-0			10/15/06		NA
440	Butanediol dinitrate, 1,4-	3457-91-8			10/15/06		NA
441	Butanediol, 1,3-	107-88-0			10/15/06		1
442	Butanediol, 1,4-; (1,4-Tetramethylene glycol)	110-63-4			10/15/06		1
443	Butanedione, 2,3-	431-03-8			04/20/07		2
444	Butanenitrile; (Butyronitrile)	109-74-0			10/15/06		3
445	Butanephosphonic acid	3321-64-0			10/15/06		NA
446	Butanethiol; (n-Butyl mercaptan)	109-79-5	09/30/97		10/15/06		1
447	Butanoic acid, butyl ester; (n-Butyl n-butanoate)	109-21-7			10/15/06		1
448	Butanol, aluminum salt, 2-	2269-22-9			10/15/06		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
449	Butanol-d10, n-	34193-38-9	N.I.S. etc.	84.18	ppm	Y	3.44	C.D3.(C.D2)2.C.D2.O.D
450	Butanone oxime; (Ethyl methyl ketoxime)	96-29-7	EMU500	87.14	ppm	Y	3.56	C.H3..C.(N.O.H)..C.H2..C.H3
451	**Butanone, 2-; (Methyl ethyl ketone; MEK)**	**78-93-3**	MKA400	72.12	ppm	Y	2.95	C.H3.C.O.C.H2.C.H3
452	Butene, 1-; (Butylene)	106-98-9	BOW250	56.11	ppm	N	2.29	C4.H8
453	Butene, 2-	107-01-7	BOW255	56.11	ppm	N	2.29	C4.H8
454	Butene, cis-2-; (cis-1,2-Dimethylethylene)	590-18-1	N.I.S.	56.11	ppm	N	2.29	C4.H8
455	Butene, trans-2-; (Trans-1,2-dimethylethylene)	624-64-6	N.I.S.	56.11	ppm	N	2.29	C4.H8
456	Butoxyethanol acetate, 2-; (Ethylene glycol monobutyl ether acetate)	112-07-2	BPM000	160.24	ppm	N	6.55	C8.H16.O3
457	Butoxyethanol phosphate, 2-	78-51-3	BPK250	398.54	mg/m3	Y	16.29	C18.H39.O7.P
458	Butoxyethanol, 2-; (Glycol ether EB)	111-76-2	BPJ850	118.20	ppm	Y	4.83	C6.H14.O2
459	Butoxyethoxy)ethanol, 2-(2-; (Diethylene glycol monobutyl ether)	112-34-5	DJF200	162.26	mg/m3	Y	6.63	C8.H18.O3
460	Butoxyethoxy)ethyl thiocyanate, 2-(2-	112-56-1	BPL250	203.33	mg/m3	N	8.31	C9.H17.N.O2.S
461	Butoxypolypropylene glycol	9003-13-8	BRP250	2600.00	mg/m3	Y	106.27	(C3.H6.O)n.C4.H10.O
462	**Butyl acetate, n-**	**123-86-4**	BPU750	116.18	ppm	Y	4.75	C6.H12.O2

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
449	Butanol-d10, n-	34193-38-9	L	-90	117.7	4	20	0.92	2	14000
450	Butanone oxime; (Ethyl methyl ketoxime)	96-29-7	L	-29.5	152			0.932	3	
451	**Butanone, 2-; (Methyl ethyl ketone; MEK)**	**78-93-3**	L	-86.4	79.6	71	20	0.80615	3	14000
452	Butene, 1-; (Butylene)	106-98-9	G	-185.3	-6.3	3480	21	0.668 @ 0C	3	16000
453	Butene, 2-	107-01-7	G			>760	25		2	6000
454	Butene, cis-2-; (cis-1,2-Dimethylethylene)	590-18-1	G	-138.9	3.7	1600	25	0.616		16000
455	Butene, trans-2-; (Trans-1,2-dimethylethylene)	624-64-6	G	-105.5	0.8	1750	25	0.599 @ 25C		18000
456	Butoxyethanol acetate, 2-; (Ethylene glycol monobutyl ether acetate)	112-07-2	L	-63.5	192.3	0.3		0.9424	3	8800
457	Butoxyethanol phosphate, 2-	78-51-3	L	-70	200-230	0.03	150	1.02 @ 20C	3	
458	Butoxyethanol, 2-; (Glycol ether EB)	111-76-2	L	-74.8	171-172	0.8		0.9012	3	11000
459	Butoxyethoxy)ethanol, 2-(2-; (Diethylene glycol monobutyl ether)	112-34-5	L	-68.1	230.6	0.02	20	0.9553	2	12000
460	Butoxyethoxy)ethyl thiocyanate, 2-(2-	112-56-1	L		120-125 @ 0.25mm				3	
461	Butoxypolypropylene glycol	9003-13-8	L	-48				0.990 @ 25C	1	
462	**Butyl acetate, n-**	**123-86-4**	L	-77	126	15	25	0.88	3	14000

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
449	Butanol-d10, n-	34193-38-9			04/20/07		NA
450	Butanone oxime; (Ethyl methyl ketoxime)	96-29-7	08/07/98		04/20/07		2
451	**Butanone, 2-; (Methyl ethyl ketone; MEK)**	**78-93-3**	08/21/96	02/22/08	08/13/07	GOEV, EPA.	1
452	Butene, 1-; (Butylene)	106-98-9		05/19/08	05/19/08	GOEV, HSDB.	1
453	Butene, 2-	107-01-7	01/04/99	05/19/08	05/19/08	GOEV, RTECS	1
454	Butene, cis-2-; (cis-1,2-Dimethylethylene)	590-18-1		05/19/08	05/19/08	GOEV.	1
455	Butene, trans-2-; (Trans-1,2-dimethylethylene)	624-64-6		05/19/08	05/19/08	GOEV, HSDB.	1
456	Butoxyethanol acetate, 2-; (Ethylene glycol monobutyl ether acetate)	112-07-2	07/09/97	02/25/08	02/25/08	GOEV, RTECS.	1
457	Butoxyethanol phosphate, 2-	78-51-3			10/15/06		NA
458	Butoxyethanol, 2-; (Glycol ether EB)	111-76-2	07/09/97		10/15/06		3
459	Butoxyethoxy)ethanol, 2-(2-; (Diethylene glycol monobutyl ether)	112-34-5	01/04/99		10/15/06		1
460	Butoxyethoxy)ethyl thiocyanate, 2-(2-	112-56-1			10/15/06		NA
461	Butoxypolypropylene glycol	9003-13-8			10/15/06		NA
462	**Butyl acetate, n-**	**123-86-4**			08/13/07	AIHA.	2

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
463	Butyl acetate, sec-	105-46-4	BPV000	116.18	ppm	Y	4.75	C6.H12.O2
464	Butyl acetate, tert-	540-88-5	BPV100	116.18	ppm	N	4.75	C6H12O2
465	Butyl acetoacetate, tert-	1694-31-1	N.I.S.	158.20	mg/m3	N	6.47	C8.H14.O3
466	**Butyl acrylate, n-**	**141-32-2**	BPW100	128.19	ppm	N	5.24	C.H2.C.H..C.O.O.H.C4.H9
467	Butyl alcohol, n-	71-36-3	BPW500	74.14	ppm	Y	3.03	C4.H10.O
468	Butyl alcohol, sec-; (2-Butanol)	78-92-2	BPW750	74.14	ppm	Y	3.03	C4.H10.O
469	Butyl bis(2-ethylhexyl)phosphate	z-0002	N.I.S. etc.	378.53	ppm	N	15.47	[Unknown]
470	Butyl bromide, n-; (1-Bromobutane)	109-65-9	BMX500	137.04	ppm	N	5.60	C4.H9.Br
471	**Butyl chloroformate, n-**	**592-34-7**	N.I.S.	136.58	ppm	Y	5.58	C5.H9.Cl.O2
472	**Butyl chloroformate, sec-**	**17462-58-7**	N.I.S.	136.58	ppm	Y	5.58	C5.H9.Cl.O2
473	Butyl ether, n-; (Dibutyl ether)	142-96-1	BRH750	130.26	ppm	Y	5.32	C8.H18.O
474	Butyl glycidyl ether, n-	2426-08-6	BRK750	130.21	ppm	Y	5.32	C4.H9O.H2.C.H.O.C.H2
475	**Butyl isocyanate, n-**	**111-36-4**	BRQ500	99.15	ppm	Y	4.05	C4.H9.N.C.O
476	Butyl isocyanate, Tert-	1609-86-5	N.I.S.	99.13	mg/m3	N	4.05	C5.H9.N.O

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
463	Butyl acetate, sec-	105-46-4	L	-98.9	112	17	20	0.862-0.866 @	3	17000
464	Butyl acetate, tert-	540-88-5	L		97.8	47	25	0.8593 @ 25C		13000
465	Butyl acetoacetate, tert-	1694-31-1	L					0.954		
466	**Butyl acrylate, n-**	**141-32-2**	L	-69	~148	3.2	20	0.89	3	15000
467	Butyl alcohol, n-	71-36-3	L	-88.9	117.5	5.5	20	0.80978	3	14000
468	Butyl alcohol, sec-; (2-Butanol)	78-92-2	L	-89	99.5	10	20	0.808 @ 20C	3	14000
469	Butyl bis(2-ethylhexyl)phosphate	z-0002								
470	Butyl bromide, n-; (1-Bromobutane)	109-65-9	L	-112.3	101.3	41.97	25	1.2586	3	25000
471	**Butyl chloroformate, n-**	**592-34-7**	L		142			1.074		
472	**Butyl chloroformate, sec-**	**17462-58-7**	L					1.074		
473	Butyl ether, n-; (Dibutyl ether)	142-96-1	L	-98	142	6.01	25	0.7689	3	9000
474	Butyl glycidyl ether, n-	2426-08-6	L		164	3.2	25		2	11580
475	**Butyl isocyanate, n-**	**111-36-4**	L		115	17	24	0.88	3	
476	Butyl isocyanate, Tert-	1609-86-5	S	85.5				0.8670 @ 7C	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
463	Butyl acetate, sec-	105-46-4		02/22/08	02/22/08	GOEV, NIOSH.	1
464	Butyl acetate, tert-	540-88-5			10/15/06		NA
465	Butyl acetoacetate, tert-	1694-31-1			10/15/06		1
466	**Butyl acrylate, n-**	**141-32-2**	08/21/96	07/18/08	07/18/08	GOEV, EPA.	3
467	Butyl alcohol, n-	71-36-3	08/21/96		10/15/06		2
468	Butyl alcohol, sec-; (2-Butanol)	78-92-2	01/04/99		10/15/06		2
469	Butyl bis(2-ethylhexyl)phosphate	z-0002			10/15/06		
470	Butyl bromide, n-; (1-Bromobutane)	109-65-9			04/20/07		1
471	**Butyl chloroformate, n-**	**592-34-7**		07/18/08	06/30/08	MSDS, EPA.	NA
472	**Butyl chloroformate, sec-**	**17462-58-7**		07/19/08	07/02/08	EPA.	NA
473	Butyl ether, n-; (Dibutyl ether)	142-96-1			10/15/06		1
474	Butyl glycidyl ether, n-	2426-08-6	08/21/96		10/15/06		NA
475	**Butyl isocyanate, n-**	**111-36-4**	08/21/96	04/03/08	08/13/07	AIHA.	3
476	Butyl isocyanate, Tert-	1609-86-5			04/20/07		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
477	Butyl levulinate	2052-15-5	BRR700	172.25	mg/m3	N	7.04	C9.H16.O3
478	Butyl lithium	109-72-8	BRR739	64.06	mg/m3	Y	2.62	C4.H9.Li
479	Butyl methyl-d3 ether, tert-	29366-08-3	N.I.S., etc.	91.16	ppm	N	3.73	C5.D3.H9.O
480	Butyl perbenzoate, tert-	614-45-9	BSC500	194.25	mg/m3	Y	7.94	C11.H14.O3
481	Butyl propanoate; (Propanoic acid, butyl ester)	590-01-2	BSJ500	130.20	mg/m3	Y	5.32	C7.H14.O2
482	Butyl-2-methylcyclopropane, T-1-	38851-70-6	N.I.S. etc.		mg/m3	N		(Unknown)
483	Butyl-3-iodo-2-propynylcarbamate	55406-53-6	N.I.S.	281.11	mg/m3	N	11.49	C8H12INO2
484	Butylamine, (S)-sec-	513-49-5	BPY100	73.16	ppm	Y	2.99	C4.H11.N
485	Butylamine, n-	109-73-9	BPX750	73.16	ppm	Y	2.99	C4.H11.N
486	Butylamine, sec-	13952-84-6	BPY000	73.16	ppm	Y	2.99	C4H11N
487	Butylamine, tert-	75-64-9	BPY250	73.16	ppm	Y	2.99	C4.H11.N
488	Butylbenzene, n-; (1-Phenylbutane)	104-51-8	BQI750	134.24	ppm	Y	5.49	C6.H5.C4.H9
489	Butylbenzene, sec-; (2-Phenylbutane)	135-98-8	BQJ000	134.24	ppm	Y	5.49	C6.H5.C.(C.H3).C2.H5
490	Butylbenzene, tert-	98-06-6	BQJ250	134.24	ppm	Y	5.49	C6.H.5.C.(C.H3)3

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
477	Butyl levulinate	2052-15-5	S		237.5			0.9735 @ 20C	1	
478	Butyl lithium	109-72-8	L	-76				0.765	3	
479	Butyl methyl-d3 ether, tert-	29366-08-3	L							
480	Butyl perbenzoate, tert-	614-45-9	L	8	112	0.33	50	1	3	
481	Butyl propanoate; (Propanoic acid, butyl ester)	590-01-2	L	-89.6	145.4			0.893 @ 0C	3	
482	Butyl-2-methylcyclopropane, T-1-	38851-70-6	L							
483	Butyl-3-iodo-2-propynylcarbamate	55406-53-6	S							
484	Butylamine, (S)-sec-	513-49-5	L	-104	63	178	25	0.724 @ 20C	3	17000
485	Butylamine, n-	109-73-9	L	-50	78	92.9	25	0.7327 @ 20C	3	15000
486	Butylamine, sec-	13952-84-6	L	-104	63	178	25	0.724 @ 20 C	3	17000
487	Butylamine, tert-	75-64-9	L	-67.5	46.4	372	25	0.7	3	15000
488	Butylbenzene, n-; (1-Phenylbutane)	104-51-8	L	-87.9	183.1	1	22.7	1.489	1	8000
489	Butylbenzene, sec-; (2-Phenylbutane)	135-98-8	L	-75.68	170.65	1	18.6	0.8621	3	8000
490	Butylbenzene, tert-	98-06-6	L	-57.8	169.1	1	13	0.866	3	7000

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
477	Butyl levulinate	2052-15-5			04/20/07		NA
478	Butyl lithium	109-72-8			10/15/06		NA
479	Butyl methyl-d3 ether, tert-	29366-08-3			04/20/07		NA
480	Butyl perbenzoate, tert-	614-45-9			10/15/06		2
481	Butyl propanoate; (Propanoic acid, butyl ester)	590-01-2			10/15/06		2
482	Butyl-2-methylcyclopropane, T-1-	38851-70-6			10/15/06		NA
483	Butyl-3-iodo-2-propynylcarbamate	55406-53-6	03/01/00		10/15/06		NA
484	Butylamine, (S)-sec-	513-49-5			10/15/06		NA
485	Butylamine, n-	109-73-9			10/15/06		3
486	Butylamine, sec-	13952-84-6			10/15/06		3
487	Butylamine, tert-	75-64-9			10/15/06		3
488	Butylbenzene, n-; (1-Phenylbutane)	104-51-8	09/30/97		10/15/06		1
489	Butylbenzene, sec-; (2-Phenylbutane)	135-98-8	09/30/97		10/15/06		1
490	Butylbenzene, tert-	98-06-6	09/30/97		10/15/06		1

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
491	Butylcyclohexane; (1-Cyclohexylbutane)	1678-93-9	N.I.S.	140.27	ppm	N	5.73	C6.H11.(C.H2)3..C.H3
492	Butylcyclohexanone, p-tert-	98-53-3	BQW250	154.28	mg/m3	Y	6.31	C10.H18.O
493	Butylene carbonate; (1,2-Butanediol, cyclic carbonate)	4437-85-8	BOT200	116.13	mg/m3	N	4.75	C5.H8.O3
494	Butylpyrocatechol, 4-tert-; (4-tert-Butylcatechol)	98-29-3	BSK000	166.24	mg/m3	Y	6.79	C10.H14.O2
495	**Butyltrichlorosilane**	**7521-80-4**	BSR000	191.57	ppm	Y	7.83	C4.H9.Cl3.Si
496	Butyne-1,4-diol, 2-; (1,4-Butynediol)	110-65-6	BST500	86.10	mg/m3	N	3.52	C4.H6.O2
497	Butyraldehyde	123-72-8	BSU250	72.12	ppm	Y	2.95	C4.H8.O
498	Butyric acid	107-92-6	BSW000	88.12	ppm	Y	3.60	C4.H8.O2
499	Butyric acid, sodium salt	156-54-7	SFN600	111.11	mg/m3	N	4.54	C4.H8.O2..Na
500	**BZ; (3-Quinuclidinyl benzilate)**	**6581-06-2**	QVA000	337.45	mg/m3	N	13.79	C21.H23.N.O3
501	C.I. pigment red 53:1; (5-Chloro-2-((2-hydroxy-1-naphthyl)azo)-p-toluene sulfonic acid, barium salt)	5160-02-1	CHP500	444.49	mg/m3	N	18.17	C17.H12.Cl.N2.O4.S..1/2 Ba
502	C-18 Unsarturated fatty acid, dimers, reaction products with polyethylenepolyamines; (Versamid 140	68410-23-1	N.I.S.		mg/m3	N		(Unspecified)
503	Cacodylic acid	75-60-5	HKC000	138.01	mg/m3	N	5.64	(C.H3)2.As..O.O.H

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
491	Butylcyclohexane; (1-Cyclohexylbutane)	1678-93-9	L		101	2.9	37.7	0.8		9000
492	Butylcyclohexanone, p-tert-	98-53-3	S	49-50	90-92 @ 9mm				1	
493	Butylene carbonate; (1,2-Butanediol, cyclic carbonate)	4437-85-8							1	
494	Butylpyrocatechol, 4-tert-; (4-tert-Butylcatechol)	98-29-3	S	52	285	0.0028	25	1.0496	3	
495	**Butyltrichlorosilane**	**7521-80-4**	L		148.5			1.1606 @ 20C	3	
496	Butyne-1,4-diol, 2-; (1,4-Butynediol)	110-65-6	S	57	238				3	
497	Butyraldehyde	123-72-8	L	-100	74.7			0.7988	3	17000
498	Butyric acid	107-92-6	L	-7.9	163.5	0.43	20	0.959	2	20000
499	Butyric acid, sodium salt	156-54-7	S hygr.	250-253				0.96	D	
500	**BZ; (3-Quinuclidinyl benzilate)**	**6581-06-2**	S	164		2.38E-10	25		3	
501	C.I. pigment red 53:1; (5-Chloro-2-((2-hydroxy-1-naphthyl)azo)-p-toluene sulfonic acid, barium salt)	5160-02-1	S	343-345				1.66	2	
502	C-18 Unsarturated fatty acid, dimers, reaction products with polyethylenepolyamines; (Versamid 140	68410-23-1	L					0.97		
503	Cacodylic acid	75-60-5	S	192					3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
491	Butylcyclohexane; (1-Cyclohexylbutane)	1678-93-9			10/15/06		NA
492	Butylcyclohexanone, p-tert-	98-53-3	08/07/98		10/15/06		NA
493	Butylene carbonate; (1,2-Butanediol, cyclic carbonate)	4437-85-8			04/20/07		NA
494	Butylpyrocatechol, 4-tert-; (4-tert-Butylcatechol)	98-29-3	08/07/98		10/15/06		3
495	**Butyltrichlorosilane**	**7521-80-4**	07/02/08	07/18/08	07/02/08	EPA, HSDB.	2
496	Butyne-1,4-diol, 2-; (1,4-Butynediol)	110-65-6	09/30/97		10/15/06		NA
497	Butyraldehyde	123-72-8	01/04/99		10/15/06		3
498	Butyric acid	107-92-6	01/04/99		10/15/06		3
499	Butyric acid, sodium salt	156-54-7			10/15/06		NA
500	**BZ; (3-Quinuclidinyl benzilate)**	**6581-06-2**	07/02/08	07/18/08	07/02/08	EPA, HSDB.	
501	C.I. pigment red 53:1; (5-Chloro-2-((2-hydroxy-1-naphthyl)azo)-p-toluene sulfonic acid, barium salt)	5160-02-1			04/20/07		NA
502	C-18 Unsarturated fatty acid, dimers, reaction products with polyethylenepolyamines; (Versamid 140	68410-23-1			10/15/06		NA
503	Cacodylic acid	75-60-5	08/21/96		10/15/06		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
504	Cadmium and compounds, as Cd.	7440-43-9	CAD000	112.40	mg/m3	N	4.59	Cd
505	Cadmium bromide	7789-42-6	CAD600	272.22	mg/m3	N	11.13	Cd.Br2
506	Cadmium carbonate	513-78-0	CAD800	172.41	mg/m3	N	7.05	Cd.C.O3
507	Cadmium chloride	10108-64-2	CAE250	183.30	mg/m3	N	7.49	Cd.Cl2
508	Cadmium chloride hemipentahydrate; (Cadmium chloride, 2.5-hydrate)	7790-78-5	CAE425	456.71	mg/m3	N	18.67	Cd2.Cl4.H10.O5
509	Cadmium fluoride	7790-79-6	CAG250	150.40	mg/m3	N	6.15	Cd.F2
510	Cadmium hydroxide	21041-95-2	CAG525	146.42	mg/m3	N	5.98	Cd.H2.O2
511	Cadmium nitrate	10325-94-7	CAH000	236.42	mg/m3	N	9.66	Cd.N2.O6
512	Cadmium nitrate tetrahydrate	10022-68-1	CAH250	308.50	mg/m3	Y	12.61	N2.O6.Cd.4 H2.O
513	Cadmium nitrite	7790-83-2	N.I.S. etc.	204.41	mg/m3	N	8.35	Cd.(N.O2)2
514	Cadmium oxide	1306-19-0	CAH500	128.40	mg/m3	N	5.25	Cd.O
515	Cadmium stearate; (Octadecanoic acid, cadmium salt)	2223-93-0	OAT000	681.48	mg/m3	N	27.85	Cd.C36.H72.O4
516	Cadmium sulfate	10124-36-4	CAJ000	208.64	mg/m3	N	8.53	O4.S..Cd
517	Cadmium sulfate, hydrate	7790-84-3	CAJ250	352.59	mg/m3	N	14.41	Cd.H16.O12.S

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
504	Cadmium and compounds, as Cd.	7440-43-9	S	320.9	767	~0	20	8.642	3	
505	Cadmium bromide	7789-42-6	S	570	863			5.192	3	
506	Cadmium carbonate	513-78-0	S						3	
507	Cadmium chloride	10108-64-2	S	568	969.6	10	656	4.047656	3	
508	Cadmium chloride hemipentahydrate; (Cadmium chloride, 2.5-hydrate)	7790-78-5	S	568				3.327	3	
509	Cadmium fluoride	7790-79-6	S	1078	1748	1	1112	6.64	3	
510	Cadmium hydroxide	21041-95-2	S	580 dec	dec			2.343	3	
511	Cadmium nitrate	10325-94-7	S	350-360				2.455	3	
512	Cadmium nitrate tetrahydrate	10022-68-1	S	59.4					3	
513	Cadmium nitrite	7790-83-2	S						3	
514	Cadmium oxide	1306-19-0	S amor	<1426		1	1000	6.95	3	
515	Cadmium stearate; (Octadecanoic acid, cadmium salt)	2223-93-0	S						3	
516	Cadmium sulfate	10124-36-4	S	1000				4.691	3	
517	Cadmium sulfate, hydrate	7790-84-3	S	1000				4.691	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
504	Cadmium and compounds, as Cd.	7440-43-9	08/21/96		10/15/06		NA
505	Cadmium bromide	7789-42-6	08/07/98		10/15/06		NA
506	Cadmium carbonate	513-78-0	08/07/98		10/15/06		NA
507	Cadmium chloride	10108-64-2	08/07/98		10/15/06		NA
508	Cadmium chloride hemipentahydrate; (Cadmium chloride, 2.5-hydrate)	7790-78-5			10/15/06		NA
509	Cadmium fluoride	7790-79-6	08/07/98		10/15/06		NA
510	Cadmium hydroxide	21041-95-2	09/30/97		10/15/06		NA
511	Cadmium nitrate	10325-94-7	07/09/97		10/15/06		NA
512	Cadmium nitrate tetrahydrate	10022-68-1	09/30/97		10/15/06		NA
513	Cadmium nitrite	7790-83-2			10/15/06		
514	Cadmium oxide	1306-19-0	09/30/97		10/15/06		NA
515	Cadmium stearate; (Octadecanoic acid, cadmium salt)	2223-93-0			10/15/06		NA
516	Cadmium sulfate	10124-36-4	08/07/98		10/15/06		NA
517	Cadmium sulfate, hydrate	7790-84-3			10/15/06		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
518	Cadmium sulfide	1306-23-6	CAJ750	144.46	mg/m3	N	5.90	Cd.S
519	Cadmium tungstate	7790-85-4	N.I.S.	360.26	mg/m3	N	14.72	Cd.W.O4
520	Cadmium(II) acetate	543-90-8	CAD250	116.25	mg/m3	N	4.75	C2.H4.O2..1/2Cd
521	Calcium	7440-70-2	CAL250	40.08	mg/m3	N	1.64	Ca
522	Calcium acetate	62-54-4	CAL750	158.18	mg/m3	N	6.47	C4.H6.O4..Ca
523	Calcium arsenate	7778-44-1	ARB750	398.08	mg/m3	Y	16.27	As2.O8.3 Ca
524	Calcium carbide	75-20-7	CAN750	64.10	mg/m3	N	2.62	Ca.C2
525	Calcium carbonate; (Dolomite, Limestone)	1317-65-3	CAO000	100.09	mg/m3	Y	4.09	Ca.C.O3
526	Calcium chloride	10043-52-4	CAO750	110.98	mg/m3	N	4.54	Ca.Cl2
527	Calcium chloride dihydrate	10035-04-8	N.I.S.	147.02	mg/m3	N	6.01	Ca.Cl2..2 H2.O
528	Calcium chloride hexahydrate	7774-34-7	N.I.S.	219.10	mg/m3	N	8.95	Ca.Cl2..6 H2.O
529	Calcium chloride hydrate	22691-02-7	N.I.S., etc.	110.98	mg/m3	N	4.54	Ca.Cl2..H2.O
530	Calcium chromate	13765-19-0	CAP500	156.08	mg/m3	N	6.38	Cr.O4..Ca
531	Calcium cyanamide	156-62-7	CAQ250	80.11	mg/m3	N	3.27	Ca.C.N2

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
518	Cadmium sulfide	1306-23-6	S	1750				4.83	3	
519	Cadmium tungstate	7790-85-4	S							
520	Cadmium(II) acetate	543-90-8	S	256	dec			2.341	3	
521	Calcium	7440-70-2						1.54	3	
522	Calcium acetate	62-54-4	S					1.5	3	
523	Calcium arsenate	7778-44-1	S	1.455				3.62	3	
524	Calcium carbide	75-20-7	S	2300				2.222	3	
525	Calcium carbonate; (Dolomite, Limestone)	1317-65-3	S	825				2.7-2.95	1	
526	Calcium chloride	10043-52-4	S	782	>1600			2.512	2	
527	Calcium chloride dihydrate	10035-04-8	S	772	1670			2.152 @ 15C		
528	Calcium chloride hexahydrate	7774-34-7	S	30				1.71	2	
529	Calcium chloride hydrate	22691-02-7	S							
530	Calcium chromate	13765-19-0	S					2.89	3	
531	Calcium cyanamide	156-62-7	S	1300	1500 subl			1.083	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
518	Cadmium sulfide	1306-23-6			10/15/06		NA
519	Cadmium tungstate	7790-85-4	08/07/98		10/15/06		NA
520	Cadmium(II) acetate	543-90-8	08/07/98		10/15/06		NA
521	Calcium	7440-70-2	07/09/97		10/15/06		3
522	Calcium acetate	62-54-4			10/15/06		NA
523	Calcium arsenate	7778-44-1		02/25/08	02/25/08	GOEV, NIOSH, RTECS.	NA
524	Calcium carbide	75-20-7			10/15/06		3
525	Calcium carbonate; (Dolomite, Limestone)	1317-65-3	07/09/97	07/09/08	07/09/08	GOEV, RTECS.	NA
526	Calcium chloride	10043-52-4	08/07/98		04/01/07	RTECS	NA
527	Calcium chloride dihydrate	10035-04-8			04/01/07	RTECS	NA
528	Calcium chloride hexahydrate	7774-34-7			04/20/07		NA
529	Calcium chloride hydrate	22691-02-7			04/20/07		NA
530	Calcium chromate	13765-19-0	08/21/96		10/15/06		NA
531	Calcium cyanamide	156-62-7	09/30/97		10/15/06		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
532	Calcium fluoride	7789-75-5	CAS000	78.08	mg/m3	N	3.19	Ca.F2
533	Calcium formate	544-17-2	CAS250	130.12	mg/m3	Y	5.32	Ca.C2.H2.O4
534	Calcium hydride	7789-78-8	CAT200	42.24	mg/m3	N	1.73	Ca.H2
535	Calcium hydroxide	1305-62-0	CAT225	74.10	mg/m3	Y	3.03	Ca.H2.O2
536	Calcium hypochlorite; (Calcium oxychloride)	7778-54-3	HOV500	142.98	mg/m3	Y	5.84	Cl2.O2.Ca
537	Calcium metasilicate	10101-39-0	N.I.S.	116.17	mg/m3	N	4.75	Ca.Si.O3
538	Calcium monohydrogen phosphate dihydrate	7789-77-7	CAT210	136.06	mg/m3	N	5.56	Ca.H.P.O4..2(H2.O)
539	Calcium nitrite	13780-06-8	N.I.S.	132.09	mg/m3	N	5.40	Ca.(N.O2)2
540	Calcium oxalate	563-72-4	N.I.S.	128.10	mg/m3	N	5.24	Ca.C2.O4
541	Calcium oxalate, hydrate	5794-28-5	N.I.S., etc.	146.11	mg/m3	N	5.97	Ca.C2.O4..H2.O
542	Calcium oxide	1305-78-8	CAU500	56.08	mg/m3	Y	2.29	Ca.O
543	Calcium phosphate tribasic	12167-74-7	CAW120	1004.64	mg/m3	N	41.06	10.(Ca.O)..3.(P2.O5)..H2.O
544	Calcium phosphate; (Tricalcium phosphate)	10103-46-5	N.I.S.	310.18	mg/m3	Y	12.68	Ca3.(P.O4)2
545	**Calcium phosphide**	**1305-99-3**	CAW250	182.18	ppm	Y	7.45	Ca3.P2

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
532	Calcium fluoride	7789-75-5	S	1418				3.18	2	
533	Calcium formate	544-17-2	S						3	
534	Calcium hydride	7789-78-8	S	816 in H2O	675dec			1.7	3	
535	Calcium hydroxide	1305-62-0	S	580 dec				2.343	2	
536	Calcium hypochlorite; (Calcium oxychloride)	7778-54-3	S	100	dec			2.35	3	
537	Calcium metasilicate	10101-39-0	S							
538	Calcium monohydrogen phosphate dihydrate	7789-77-7	S	36				2.89	D	
539	Calcium nitrite	13780-06-8	S							
540	Calcium oxalate	563-72-4	S							
541	Calcium oxalate, hydrate	5794-28-5	S	200 dec				2.12		
542	Calcium oxide	1305-78-8	S	2570	2850			3.37	3	
543	Calcium phosphate tribasic	12167-74-7	S	1670				3.14 @ 20C	1	
544	Calcium phosphate; (Tricalcium phosphate)	10103-46-5	S					2.5 @ 20C		
545	**Calcium phosphide**	**1305-99-3**	S	>1600				2.238	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
532	Calcium fluoride	7789-75-5	08/07/98		10/15/06		NA
533	Calcium formate	544-17-2	08/07/98		10/15/06		NA
534	Calcium hydride	7789-78-8			10/15/06		NA
535	Calcium hydroxide	1305-62-0	08/07/98		10/15/06		NA
536	Calcium hypochlorite; (Calcium oxychloride)	7778-54-3	07/09/97		10/15/06		3
537	Calcium metasilicate	10101-39-0			10/15/06		NA
538	Calcium monohydrogen phosphate dihydrate	7789-77-7			10/15/06		NA
539	Calcium nitrite	13780-06-8			10/15/06		NA
540	Calcium oxalate	563-72-4			10/15/06		NA
541	Calcium oxalate, hydrate	5794-28-5			10/15/06		NA
542	Calcium oxide	1305-78-8	08/21/96		10/15/06		3
543	Calcium phosphate tribasic	12167-74-7			10/15/06		NA
544	Calcium phosphate; (Tricalcium phosphate)	10103-46-5			10/15/06		NA
545	**Calcium phosphide**	**1305-99-3**	01/02/08	07/18/08	01/02/08	EPA	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
546	Calcium sulfate anhydrous; (Drierite; Gypsum; Plaster of Paris)	7778-18-9	CAX500	136.14	mg/m3	N	5.56	Ca.S.O4
547	Calcium(II) nitrate	10124-37-5	CAU000	164.10	mg/m3	N	6.71	Ca.(N.O3)2
548	Calcium(II) nitrate tetrahydrate (1:2:4)	13477-34-4	CAU250	236.18	mg/m3	Y	9.65	N2.O6.Ca..4 H2.O
549	Calcium(II) sulfate dihydrate (1:1:2)	10101-41-4	CAX750	172.18	mg/m3	N	7.04	Ca.S.O4..2 H2O
550	Camphor	76-22-2	CBA750	152.26	mg/m3	Y	6.22	C10.H16.O
551	Camphorsulfonic acid, (1R)-(-)-10-	35963-20-3	N.I.S., etc.	232.30	mg/m3	N	9.49	C10.H16.O4.S
552	Cantharidin	56-25-7	CBE750	196.22	mg/m3	N	8.02	C10.H12.O4
553	Caprolactam (dust)	105-60-2	CBF700	115.18	mg/m3	Y	4.71	C6.H11.N.O
554	Caprolactone; (epsilon-Lactone hexanoic acid)	502-44-3	LAP000	114.16	mg/m3	N	4.67	C6.H10.O2
555	Caprylyl chloride; (Octanoyl chloride)	111-64-8	N.I.S.	162.68	mg/m3	N	6.65	C8.H15.Cl.O
556	CAPSO	73463-39-5	N.I.S. etc.	237.31	mg/m3	N	9.70	C9.H19.N.O4.S
557	Captan	133-06-2	CBG000	300.59	mg/m3	N	12.29	C9.H.8.Cl3.N.O2.S
558	Carbachol Chloride	51-83-2	CBH250	182.68	mg/m3	N	7.47	C6.H15.N2.O2.Cl
559	Carbamic acid, methyl-, O-(((2,4-dimethyl-1,3-dithiolan-2-yl)methylene)amino)-	26419-73-8	DRR000	234.36	mg/m3	N	9.58	C8.H14.N2.O2.S2

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
546	Calcium sulfate anhydrous; (Drierite; Gypsum; Plaster of Paris)	7778-18-9	S	1570				2.964	1	
547	Calcium(II) nitrate	10124-37-5	S	561	dec			2.36	3	
548	Calcium(II) nitrate tetrahydrate (1:2:4)	13477-34-4	S	43	dec			2.36	2	
549	Calcium(II) sulfate dihydrate (1:1:2)	10101-41-4	S	128	163			2.32	1	
550	Camphor	76-22-2	S	180	204			0.992	3	6000
551	Camphorsulfonic acid, (1R)-(-)-10-	35963-20-3	L	198					2	
552	Cantharidin	56-25-7	S	218	84 sublms	0.02	25		3	
553	Caprolactam (dust)	105-60-2	S	69	139 @ 12 mm	6	120	1.05 70%sol	2	14000
554	Caprolactone; (epsilon-Lactone hexanoic acid)	502-44-3	L	-1	215	0.01	20	1.0761 @ 20C	2	
555	Caprylyl chloride; (Octanoyl chloride)	111-64-8	L	-63	195.6	2.5	20	0.9535 @15C		
556	CAPSO	73463-39-5	S	270-274						
557	Captan	133-06-2	S	172-173				1.745	3	
558	Carbachol Chloride	51-83-2	S	204-205					3	
559	Carbamic acid, methyl-, O-(((2,4-dimethyl-1,3-dithiolan-2-yl)methylene)amino)-	26419-73-8	S						3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
546	Calcium sulfate anhydrous; (Drierite; Gypsum; Plaster of Paris)	7778-18-9	08/07/98		08/23/07	GOEV.	NA
547	Calcium(II) nitrate	10124-37-5	09/30/97		10/15/06		NA
548	Calcium(II) nitrate tetrahydrate (1:2:4)	13477-34-4			10/15/06		NA
549	Calcium(II) sulfate dihydrate (1:1:2)	10101-41-4			10/15/06		NA
550	Camphor	76-22-2	01/04/99		10/15/06		2
551	Camphorsulfonic acid, (1R)-(-)-10-	35963-20-3			04/20/07		NA
552	Cantharidin	56-25-7			10/15/06		NA
553	Caprolactam (dust)	105-60-2	09/30/97		10/15/06		NA
554	Caprolactone; (epsilon-Lactone hexanoic acid)	502-44-3			04/20/07		NA
555	Caprylyl chloride; (Octanoyl chloride)	111-64-8			10/15/06		3
556	CAPSO	73463-39-5			10/15/06		NA
557	Captan	133-06-2	09/30/97		10/15/06		NA
558	Carbachol Chloride	51-83-2			10/15/06		NA
559	Carbamic acid, methyl-, O-(((2,4-dimethyl-1,3-dithiolan-2-yl)methylene)amino)-	26419-73-8			10/15/06		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
560	Carbanolate; (Aldicarb; Methyl-2-(methylthio)propionaldehyde-o-(methylcarbamoyl)oxime, 2-)	116-06-3	CBM500	190.29	mg/m3	N	7.78	C7.H14.N2.O2.S
561	Carbaryl	63-25-2	CBM750	201.24	mg/m3	N	8.22	C12.H11.N.O2
562	Carbazole	86-74-8	CBN000	167.22	mg/m3	N	6.83	C12.H9.N
563	Carbazole violet	6358-30-1	N.I.S.	589.4794	mg/m3	N	24.09	C34.H22.C12.N4.O2
564	Carbethoxyethylidine(triphenylphosphorane)	5717-37-3	N.I.S. etc.	348.38	mg/m3	N	14.24	C22.H21.O2.P
565	Carbofuran	1563-66-2	CBS275	221.28	mg/m3	N	9.04	C12.H15.N.O3
566	Carbon black	1333-86-4	CBT750	12.00	mg/m3	N	0.49	C
567	Carbon dioxide	124-38-9	CBU250	44.01	ppm	Y	1.80	C.O2
568	**Carbon disulfide**	**75-15-0**	CBV500	76.13	ppm	Y	3.11	C.S2
569	**Carbon monoxide**	**630-08-0**	CBW750	28.01	ppm	Y	1.14	C.O
570	**Carbon tetrachloride**	**56-23-5**	CBY000	153.81	ppm	Y	6.29	C.Cl4
571	Carbon tetrafluoride; (Tetrafluoromethane)	75-73-0	CBY250	88.01	ppm	N	3.60	C.F4
572	Carbon trifluoride; (Trifluoromethane, Fluoroform)	75-46-7	CBY750	70.02	ppm	N	2.86	C.H.F3
573	Carbon; (Graphite, synthetic)	7440-44-0	CBT500	12.01	mg/m3	N	0.49	C

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
560	Carbanolate; (Aldicarb; Methyl-2-(methylthio)propionaldehyde-o-(methylcarbamoyl)oxime, 2-)	116-06-3	S	98-100		9.75E-05	20	1.105	3	
561	Carbaryl	63-25-2	S	142				1.232	3	
562	Carbazole	86-74-8	S	244.8	354.7	400	323	1.10 @18C	3	
563	Carbazole violet	6358-30-1	S							
564	Carbethoxyethylidine(triphenylphosphorane)	5717-37-3	S						3	
565	Carbofuran	1563-66-2	S	150-152		0.00002	33	1.180 @ 20C	3	
566	Carbon black	1333-86-4	S						1	
567	Carbon dioxide	124-38-9	G	-78.3 subl	subl	>760		1.53 gas	1	
568	**Carbon disulfide**	**75-15-0**	L	-111.7	46.7	297	20	1.293	3	10000
569	**Carbon monoxide**	**630-08-0**	G	-205	-191.7	>760		1.25 gas @ 0C	3	120000
570	**Carbon tetrachloride**	**56-23-5**	L	-22.8	76.7	91	20	1.632	3	
571	Carbon tetrafluoride; (Tetrafluoromethane)	75-73-0	G	-183.6	-127.8			3.034	2	
572	Carbon trifluoride; (Trifluoromethane, Fluoroform)	75-46-7	G	-163	-82.2	35300	25		2	
573	Carbon; (Graphite, synthetic)	7440-44-0	S	3652-97 subl	~4200			2.25	1	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
560	Carbanolate; (Aldicarb; Methyl-2-(methylthio)propionaldehyde-o-(methylcarbamoyl)oxime, 2-)	116-06-3	08/21/96		10/15/06		NA
561	Carbaryl	63-25-2	09/30/97	07/09/08	07/09/08	GOEV, RTECS.	NA
562	Carbazole	86-74-8			10/15/06		NA
563	Carbazole violet	6358-30-1			10/15/06		NA
564	Carbethoxyethylidine(triphenylphosphorane)	5717-37-3			10/15/06		NA
565	Carbofuran	1563-66-2			10/15/06		NA
566	Carbon black	1333-86-4	01/04/99		10/15/06		NA
567	Carbon dioxide	124-38-9	08/21/96	02/22/08	10/15/06	GOEV, RTECS, NIOSH.	NA
568	**Carbon disulfide**	**75-15-0**	10/31/92	02/01/08	08/13/07	EPA.	3
569	**Carbon monoxide**	**630-08-0**	10/31/92	07/18/08	11/14/07	GOEV, EPA.	2
570	**Carbon tetrachloride**	**56-23-5**	10/31/92	02/01/08	08/13/07	GOEV, EPA	3
571	Carbon tetrafluoride; (Tetrafluoromethane)	75-73-0			10/15/06		NA
572	Carbon trifluoride; (Trifluoromethane, Fluoroform)	75-46-7			10/15/06		NA
573	Carbon; (Graphite, synthetic)	7440-44-0	09/30/97		10/15/06		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
574	Carbonic acid, calcium salt	471-34-1	CAT775	100.09	mg/m3	Y	4.09	C.O3·Ca
575	**Carbonyl fluoride**	**353-50-4**	CCA500	66.01	ppm	Y	2.70	C.F2O
576	**Carbonyl sulfide**	**463-58-1**	CCC000	60.07	ppm	N	2.46	C.O.S
577	Carbonyldiphthalic anhydride, 4,4'-	2421-28-5	N.I.S.	322.23	mg/m3	N	13.17	C17.H6.O7
578	Carbophenothion; (Trithion)	786-19-6	TNP250	342.87	mg/m3	N	14.01	C11.H16.Cl.O2..P.S3
579	Carboxymethyl cellulose	9000-11-7	N.I.S.	76.05	mg/m3	N	3.11	(C2.H4.O3)x
580	Carboxymethyl sepharose; (CM sepharose)	68894-07-5	N.I.S. etc.		mg/m3	N		
581	Casamino acids	z-0008	N.I.S.etc.		mg/m3	N		
582	Casein; (Casamino acids; Casein hydrolysate type 1)	9000-71-9	N.I.S.		mg/m3	N		
583	Castor oil	8001-79-4	CCP250		mg/m3	Y		[Unknown]
584	Catechol	120-80-9	CCP850	110.12	ppm	Y	4.50	C6H6O2
585	Cation exchange resin 200-400 mesh Hyd. Dowex 50W-X8	11119-67-8	N.I.S. etc.		mg/m3	N		
586	Cation exchange resin 50W-X12, 200 - 400 mesh	9056-03-5	N.I.S. etc.		mg/m3	N		
587	Cellulose	9004-34-6	CCU150	160000	mg/m3	N	6539.42	(C6H10O5)n

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
574	Carbonic acid, calcium salt	471-34-1	S						1	
575	**Carbonyl fluoride**	**353-50-4**	G	-114	-83	>760		1.139 @ -114C	3	
576	**Carbonyl sulfide**	**463-58-1**	L	-138	49.9			1.24 liq	3	120000
577	Carbonyldiphthalic anhydride, 4,4'-	2421-28-5	S	226						
578	Carbophenothion; (Trithion)	786-19-6	L		82@ 0.1 mm	3E-07	20	1.29 @ 20C	3	
579	Carboxymethyl cellulose	9000-11-7	S							
580	Carboxymethyl sepharose; (CM sepharose)	68894-07-5	S						2	
581	Casamino acids	z-0008	L							
582	Casein; (Casamino acids; Casein hydrolysate type 1)	9000-71-9	L							
583	Castor oil	8001-79-4	L	-12	313			0.96	1	
584	Catechol	120-80-9	S	105	240	10	118.3	1.341	3	14000
585	Cation exchange resin 200-400 mesh Hyd. Dowex 50W-X8	11119-67-8	S							
586	Cation exchange resin 50W-X12, 200 - 400 mesh	9056-03-5	S							
587	Cellulose	9004-34-6	S					1.27-1.61	1	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
574	Carbonic acid, calcium salt	471-34-1	01/04/99		10/15/06		NA
575	**Carbonyl fluoride**	**353-50-4**	01/04/99	07/18/08	06/30/08	GOEV, EPA.	NA
576	**Carbonyl sulfide**	**463-58-1**	08/21/96	07/18/08	06/30/08	EPA.	3
577	Carbonyldiphthalic anhydride, 4,4'-	2421-28-5			10/15/06		NA
578	Carbophenothion; (Trithion)	786-19-6			10/15/06		NA
579	Carboxymethyl cellulose	9000-11-7			10/15/06		NA
580	Carboxymethyl sepharose; (CM sepharose)	68894-07-5			04/20/07		NA
581	Casamino acids	z-0008			10/15/06		
582	Casein; (Casamino acids; Casein hydrolysate type 1)	9000-71-9			10/15/06		NA
583	Castor oil	8001-79-4	09/30/97		04/20/07		1
584	Catechol	120-80-9	09/30/97	02/25/08	02/25/08	GOEV, NIOSH, RTECS.	3
585	Cation exchange resin 200-400 mesh Hyd. Dowex 50W-X8	11119-67-8			10/15/06		NA
586	Cation exchange resin 50W-X12, 200 - 400 mesh	9056-03-5			10/15/06		NA
587	Cellulose	9004-34-6			10/15/06		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
588	Cellulose acetate butanoate	9004-36-8	N.I.S.		mg/m3	N		C4.H8.O2..x C2.H4.O2
589	Cellulose, 2-(diethylamino)ethyl ether	9013-34-7	N.I.S.		mg/m3	N		(C6.H15.N.O).x
590	Ceric ammonium nitrate	16774-21-3	N.I.S.	548.23	mg/m3	N	22.41	Ce.(N.H4)2.(N.O3)6
591	Ceric ammonium sulfate	7637-03-8	N.I.S.	600.54	mg/m3	N	24.54	Ce.4(NH3).4(H2.S.O4)
592	Ceric ammonium sulfate, dihydrate	10378-47-9	N.I.S. etc.	632.53	mg/m3	N	25.85	Ce..H20.N4.O18.S4
593	Ceric oxide	1306-38-3	CCY000	172.12	mg/m3	N	7.03	Ce.O2
594	Cerium	7440-45-1	CCY250	140.13	mg/m3	N	5.73	Ce
595	Cerium (iv) nitrate, 1.5	13093-17-9	N.I.S. etc.	392.17	mg/m3	N	16.03	Ce..4(H.N.O3)
596	Cerium acetate	537-00-8	CCY500	317.27	mg/m3	N	12.97	C6.H9.O6.Ce
597	Cerium chloride	7790-86-5	CCY750	246.47	mg/m3	N	10.07	Ce.Cl3
598	Cerium fluoride	7758-88-5	CDA750	197.12	mg/m3	N	8.06	Ce.F3
599	Cerium hydroxide	15785-09-8	N.I.S.	191.14	mg/m3	N	7.81	Ce.(O.H)3
600	Cerium nitrate hexahydrate	10294-41-4	CDB250	434.27	mg/m3	Y	17.75	N3.O9.Ce..6 H2.O
601	Cerium oxalate	15750-47-7	CDA250	316.16	mg/m3	N	12.92	Ce.(C2.O4)2

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
588	Cellulose acetate butanoate	9004-36-8	S							
589	Cellulose, 2-(diethylamino)ethyl ether	9013-34-7	S							
590	Ceric ammonium nitrate	16774-21-3	S						2	
591	Ceric ammonium sulfate	7637-03-8	S						2	
592	Ceric ammonium sulfate, dihydrate	10378-47-9	S	130						
593	Ceric oxide	1306-38-3	S	2600				7.65	1	
594	Cerium	7440-45-1	S	804	3433			6.9	3	
595	Cerium (iv) nitrate, 1.5	13093-17-9	S							
596	Cerium acetate	537-00-8	S	308 dec.					3	
597	Cerium chloride	7790-86-5	S del	722	1705			3.92	3	
598	Cerium fluoride	7758-88-5	S	1460	2300			6.16	1	
599	Cerium hydroxide	15785-09-8	S							
600	Cerium nitrate hexahydrate	10294-41-4	S						3	
601	Cerium oxalate	15750-47-7	S						2	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
588	Cellulose acetate butanoate	9004-36-8			10/15/06		NA
589	Cellulose, 2-(diethylamino)ethyl ether	9013-34-7			10/15/06		NA
590	Ceric ammonium nitrate	16774-21-3	08/07/98		10/15/06		NA
591	Ceric ammonium sulfate	7637-03-8	08/07/98		10/15/06		NA
592	Ceric ammonium sulfate, dihydrate	10378-47-9			10/15/06		NA
593	Ceric oxide	1306-38-3	08/07/98		10/15/06		NA
594	Cerium	7440-45-1	01/04/99		10/15/06		NA
595	Cerium (iv) nitrate, 1.5	13093-17-9			04/20/07		NA
596	Cerium acetate	537-00-8			10/15/06		NA
597	Cerium chloride	7790-86-5	07/09/97		10/15/06		NA
598	Cerium fluoride	7758-88-5			10/15/06		NA
599	Cerium hydroxide	15785-09-8			10/15/06		NA
600	Cerium nitrate hexahydrate	10294-41-4	09/30/97		10/15/06		NA
601	Cerium oxalate	15750-47-7	08/07/98		10/15/06		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
602	Cerium sulfate	13590-82-4	CDB400	332.24	mg/m3	N	13.58	Ce.(S.O4)2
603	Cerium trioxide	1345-13-7	N.I.S.	328.24	mg/m3	N	13.42	Ce2-O3
604	Cerium(III) sulfate	13454-94-9	N.I.S. etc.	568.42	mg/m3	N	23.23	Ce2.(S.O4)3
605	Cerium(IV) hydroxide	12014-56-1	N.I.S.	208.15	mg/m3	N	8.51	Ce.H4.O4
606	Cerous nitrate; (Cerium(III) nitrate)	10108-73-3	CDB000	326.15	mg/m3	N	13.33	Ce.(NO3)3
607	Cerous nitrite	z-0004	N.I.S. etc.	278.11	mg/m3	N	11.37	Ce.(NO2)3
608	Cesium	7440-46-2	CDC000	132.91	mg/m3	N	5.43	Cs
609	Cesium carbonate	534-17-8	CDC750	325.83	mg/m3	N	13.32	C.O3·.2Cs
610	Cesium chloride	7647-17-8	CDD000	168.36	mg/m3	N	6.88	Cs.Cl
611	Cesium fluoride	13400-13-0	CDD500	151.91	mg/m3	N	6.21	Cs.F
612	Cesium hydroxide	21351-79-1	CDD750	149.91	mg/m3	Y	6.13	Cs.O.H
613	Cesium iodide	7789-17-5	CDE000	259.81	mg/m3	N	10.62	Cs.I
614	Cesium nitrate	7789-18-6	CDE250	194.92	mg/m3	N	7.97	N.O3·Cs
615	Cesium nitrite	13454-83-6	N.I.S.	178.91	mg/m3	N	7.31	Cs.N.O2

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 ˚C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
602	Cerium sulfate	13590-82-4	S						D	
603	Cerium trioxide	1345-13-7	S	1692				6.86		
604	Cerium(III) sulfate	13454-94-9	S	`250 dec				2.87	2	
605	Cerium(IV) hydroxide	12014-56-1	S							
606	Cerous nitrate; (Cerium(III) nitrate)	10108-73-3	S	150 lose water	200 dec				3	
607	Cerous nitrite	z-0004	S							
608	Cesium	7440-46-2	S	28.5	668	1	279	1.873	3	
609	Cesium carbonate	534-17-8	S						2	
610	Cesium chloride	7647-17-8	S	646	1209			3.99	2	
611	Cesium fluoride	13400-13-0	S	703	1251				3	
612	Cesium hydroxide	21351-79-1	S deliq	315				3.675	3	
613	Cesium iodide	7789-17-5	S	626	1280				2	
614	Cesium nitrate	7789-18-6	Pwdr	414	dec.			3.685	2	
615	Cesium nitrite	13454-83-6	S							

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
602	Cerium sulfate	13590-82-4	08/07/98		10/15/06		NA
603	Cerium trioxide	1345-13-7			10/15/06		NA
604	Cerium(III) sulfate	13454-94-9			04/20/07		NA
605	Cerium(IV) hydroxide	12014-56-1			10/15/06		NA
606	Cerous nitrate; (Cerium(III) nitrate)	10108-73-3	08/07/98		10/15/06		NA
607	Cerous nitrite	z-0004			10/15/06		
608	Cesium	7440-46-2	01/04/99		10/15/06		NA
609	Cesium carbonate	534-17-8	01/04/99		10/15/06		NA
610	Cesium chloride	7647-17-8	08/07/98		10/15/06		NA
611	Cesium fluoride	13400-13-0	08/07/98		10/15/06		NA
612	Cesium hydroxide	21351-79-1			10/15/06		NA
613	Cesium iodide	7789-17-5	01/04/99		10/15/06		NA
614	Cesium nitrate	7789-18-6	01/04/99		10/15/06		NA
615	Cesium nitrite	13454-83-6			10/15/06		

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
616	Cesium oxide	20281-00-9	CDE325	297.81	mg/m3	N	12.17	Cs2.O
617	Charcoal, activated	64365-11-3	CDI000	12.01	mg/m3	N	0.49	C
618	Chloramben; (3-Amino-2,5-dichlorobenzoic acid)	133-90-4	AJM000	206.03	mg/m3	N	8.42	C7H5Cl2NO2
619	Chloramphenicol	56-75-7	CDP250	323.13	mg/m3	N	13.21	C11.H12.Cl2.N2.O5
620	Chlordane	57-74-9	CDR750	409.76	mg/m3	N	16.75	C10H6Cl8
621	Chlorfenvinfos	470-90-6	CDS750	359.58	mg/m3	N	14.70	C12H14Cl3O4P
622	Chloric acid, sodium salt; (Sodium chlorate)	7775-09-9	SFS000	106.44	mg/m3	N	4.35	Na..Cl.O3
623	Chloride	16887-00-6	N.I.S. etc.	35.45	ppm	Y	1.45	Cl-
624	Chlorinated polyolefins	68410-99-1	N.I.S.		mg/m3	N		N/A
625	**Chlorine**	**7782-50-5**	CDV750	70.90	ppm	Y	2.90	Cl2
626	**Chlorine dioxide**	**10049-04-4**	CDW450	67.45	ppm	Y	2.76	Cl.O2
627	Chlorine Hi dry granular (as Cl)	z-0006	N.I.S.	35.45	ppm	Y	1.45	N/A
628	**Chlorine pentafluoride**	**13637-63-3**	CDX250	130.45	ppm	Y	5.33	Cl.F5
629	**Chlorine trifluoride**	**7790-91-2**	CDX750	92.45	ppm	Y	3.78	Cl.F3

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
616	Cesium oxide	20281-00-9	S	490				4.65	3	
617	Charcoal, activated	64365-11-3	S	3500	4827			2.3	1	
618	Chloramben; (3-Amino-2,5-dichlorobenzoic acid)	133-90-4	S	200-201		0.007	100		2	
619	Chloramphenicol	56-75-7	S	151	subl	1.70E-12	25		3	
620	Chlordane	57-74-9	L		175			1.57-1.63	3	
621	Chlorfenvinfos	470-90-6	L	-23	124-126 @0.008			1.36 @ 20C	3	
622	Chloric acid, sodium salt; (Sodium chlorate)	7775-09-9	S	264	dec			2.490 @ 15C	3	
623	Chloride	16887-00-6	G/L							
624	Chlorinated polyolefins	68410-99-1								
625	**Chlorine**	**7782-50-5**	G	-101.1	-33.9	5740	25	C	3	
626	**Chlorine dioxide**	**10049-04-4**	G	-59	11			3.09 @ 11C	3	100000
627	Chlorine Hi dry granular (as Cl)	z-0006								
628	**Chlorine pentafluoride**	**13637-63-3**	G	-103	-13.1			2.105 @ 13.1C	3	
629	**Chlorine trifluoride**	**7790-91-2**	G	-76.1	11.7	>760		1.77	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
616	Cesium oxide	20281-00-9			10/15/06		NA
617	Charcoal, activated	64365-11-3	01/04/99		10/15/06		NA
618	Chloramben; (3-Amino-2,5-dichlorobenzoic acid)	133-90-4	09/30/97		10/15/06		NA
619	Chloramphenicol	56-75-7	07/16/07		07/16/07	RTECS	NA
620	Chlordane	57-74-9	08/21/96		10/15/06		NA
621	Chlorfenvinfos	470-90-6			10/15/06		NA
622	Chloric acid, sodium salt; (Sodium chlorate)	7775-09-9			10/15/06		NA
623	Chloride	16887-00-6			10/15/06		NA
624	Chlorinated polyolefins	68410-99-1	07/09/97		10/15/06		NA
625	**Chlorine**	**7782-50-5**	10/31/92	07/18/08	08/13/07	GOEV, EPA.	4
626	**Chlorine dioxide**	**10049-04-4**		02/01/08	10/15/06	GOEV, EPA.	NA
627	Chlorine Hi dry granular (as Cl)	z-0006	08/07/98		08/13/07	GOEV, AIHA.	
628	**Chlorine pentafluoride**	**13637-63-3**		07/19/08	08/13/07	EPA	NA
629	**Chlorine trifluoride**	**7790-91-2**	10/31/92	07/18/08	08/13/07	GOEV, EPA.	4

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
630	Chlormephos	24934-91-6	CDY299	234.70	mg/m3	N	9.59	C5.H12.Cl.O2..P.S2
631	Chlormequat Chloride; (Choline dichloride)	999-81-5	CMF400	158.09	mg/m3	Y	6.46	C5.H13.Cl.N.Cl
632	**Chloro-1,1,1,2-tetrafluoroethane, 2-**	**2837-89-0**	N.I.S.	136.48	ppm	N	5.58	C2.H.Cl.F4
633	**Chloro-1,1-difluoroethane, 1-; (HCFC-142b)**	**75-68-3**	CFX250	100.50	ppm	N	4.11	C2.H3.Cl.F2
634	Chloro-1,2-propanediol, 3-; (Chlorohydrin)	96-24-2	CDT750	110.55	ppm	Y	4.52	C3.H7.Cl.O2
635	Chloro-1-butanol, 4-	928-51-8	CEU500	108.58	mg/m3	N	4.44	C4.H9.Cl.O
636	Chloro-2,4-dinitrobenzene, 1-	97-00-7	CGM000	202.56	mg/m3	Y	8.28	C6.H3.Cl.N2.O4
637	Chloro-2-methyl-1-propene, 3-	563-47-3	CIU750	90.56	ppm	N	3.70	H2.C=C.(C.H3)..C.H2.Cl
638	Chloro-2-methylpropane, 2-; (Tert-butyl chloride)	507-20-0	BQR000	92.58	ppm	N	3.78	C4.H9.Cl
639	Chloro-2-nitrophenol, 4-	89-64-5	N.I.S.	173.55	mg/m3	N	7.09	C6.H4.Cl.N.O3
640	Chloro-4-nitrophenol, 2-	619-08-9	CJD250	173.56	ppm	N	7.09	C6.H4.Cl.N.O3
641	**Chloroacetaldehyde**	**107-20-0**	CDY500	78.50	ppm	Y	3.21	Cl.C.H2.C.H.O
642	Chloroacetaldehyde dimethyl acetal	97-97-2	N.I.S.	124.57	mg/m3	N	5.09	C4.H9.Cl.O2
643	Chloroacetic acid, sodium salt	3926-62-3	SFU500	116.48	mg/m3	N	4.76	C2.H2.Cl.O2..Na

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
630	Chlormephos	24934-91-6	L		81-85 @ 0.1 mm	0.0056	30	1.26	3	
631	Chlormequat Chloride; (Choline dichloride)	999-81-5	S	245 dec		7.5E-08	20		3	
632	**Chloro-1,1,1,2-tetrafluoroethane, 2-**	**2837-89-0**	L	-199	12	2888	25	1.364		
633	**Chloro-1,1-difluoroethane, 1-; (HCFC-142b)**	**75-68-3**	G	-131	-9.5	>760		1.19	1	62000
634	Chloro-1,2-propanediol, 3-; (Chlorohydrin)	96-24-2	L		213 dec	0.2	20	1.326	3	
635	Chloro-1-butanol, 4-	928-51-8	L		84 @ 16mm			1.088 @ 20C	2	
636	Chloro-2,4-dinitrobenzene, 1-	97-00-7	S	51-a,43-b,27-g	315			1.68	3	20000
637	Chloro-2-methyl-1-propene, 3-	563-47-3	L	<-80	72.17	101.7	20	0.9257 @ 20C	3	23000
638	Chloro-2-methylpropane, 2-; (Tert-butyl chloride)	507-20-0	L	-25.6	50.9			0.87	3	
639	Chloro-2-nitrophenol, 4-	89-64-5	S	88.5						
640	Chloro-4-nitrophenol, 2-	619-08-9	S	111					3	
641	**Chloroacetaldehyde**	**107-20-0**	L	-19.4	85.5	100	20	1.19	3	57000
642	Chloroacetaldehyde dimethyl acetal	97-97-2	L		127.5			1.4150 @ 20C		
643	Chloroacetic acid, sodium salt	3926-62-3	S	200 dec				1.4043	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
630	Chlormephos	24934-91-6			10/15/06		NA
631	Chlormequat Chloride; (Choline dichloride)	999-81-5			10/15/06		NA
632	**Chloro-1,1,1,2-tetrafluoroethane, 2-**	**2837-89-0**	04/03/08	04/03/08	04/03/08	AIHA, RTECS, HSDB.	
633	**Chloro-1,1-difluoroethane, 1-; (HCFC-142b)**	**75-68-3**	01/04/99		08/13/07	GOEV, AIHA.	2
634	Chloro-1,2-propanediol, 3-; (Chlorohydrin)	96-24-2			04/20/07		NA
635	Chloro-1-butanol, 4-	928-51-8			10/15/06		NA
636	Chloro-2,4-dinitrobenzene, 1-	97-00-7			10/15/06		3
637	Chloro-2-methyl-1-propene, 3-	563-47-3			10/15/06		1
638	Chloro-2-methylpropane, 2-; (Tert-butyl chloride)	507-20-0			04/20/07	RTECS	1
639	Chloro-2-nitrophenol, 4-	89-64-5			10/15/06		NA
640	Chloro-4-nitrophenol, 2-	619-08-9			10/15/06		NA
641	**Chloroacetaldehyde**	**107-20-0**	08/21/96	02/01/08	08/13/07	GOEV, EPA.	NA
642	Chloroacetaldehyde dimethyl acetal	97-97-2			10/15/06		NA
643	Chloroacetic acid, sodium salt	3926-62-3			04/20/07		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
644	**Chloroacetic acid; (Monochloroacetic acid)**	**79-11-8**	CEA000	94.50	ppm	N	3.86	C2.H3.Cl.O2
645	**Chloroacetone**	**78-95-5**	CDN200	92.53	ppm	Y	3.78	C3.H5.Cl.O
646	**Chloroacetonitrile**	**107-14-2**	CDN500	75.50	ppm	Y	3.09	C2.H2.Cl.N
647	**Chloroacetyl chloride**	**79-04-9**	CEC250	112.94	ppm	Y	4.62	Cl.C.H2..C.O.Cl
648	Chloroallyl)-3,5,7-triaza-1-azoniaadamantane chloride, 1-(3-	4080-31-3	CEG550	251.19	mg/m3	Y	10.27	C9.H16.Cl.N4.Cl
649	Chloroaniline, p-	106-47-8	CEH680	127.58	mg/m3	N	5.21	C6.H6.Cl.N
650	**Chlorobenzene; (Benzene chloride)**	**108-90-7**	CEJ125	112.56	ppm	N	4.60	C6.H5.Cl
651	Chlorobenzotrifluoride, 2-	88-16-4	N.I.S.	180.56	mg/m3	N	7.38	C7.H4.Cl.F3
652	Chlorobenzylate; (4,4'-Dichlorobenzilic acid ethyl ester)	510-15-6	DER000	325.20	mg/m3	Y	13.29	C16.H14.Cl2.O3
653	**Chlorobenzylidene malononitrile, o-**	**2698-41-1**	CEQ600	188.62	mg/m3	Y	7.71	C10.H5.Cl.N2
654	Chlorobutane, 1-; (Butyl chloride)	109-69-3	BQQ750	92.58	ppm	Y	3.78	C4.H9.Cl
655	Chlorobutane, 2-; (Sec-butyl chloride)	78-86-4	CEU250	92.58	ppm	N	3.78	C4.H9.Cl
656	Chlorobutyryl chloride, 4-	4635-59-0	N.I.S.	141.00	mg/m3	N	5.76	C4.H6.Cl2.O
657	Chlorocyclohexanol, trans-2-	6628-80-4	N.I.S	134.61	mg/m3	N	5.50	C6.H11.Cl.O

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
644	**Chloroacetic acid; (Monochloroacetic acid)**	**79-11-8**	S	61.3	189			1.58	3	80000
645	**Chloroacetone**	**78-95-5**	L	-44.5	119			1.162	3	
646	**Chloroacetonitrile**	**107-14-2**	L		126.5	15	30	1.193 @ 20C	3	
647	**Chloroacetyl chloride**	**79-04-9**	L	-22.5	108	19	20	1.495	3	
648	Chloroallyl)-3,5,7-triaza-1-azoniaadamantane chloride, 1-(3-	4080-31-3							3	
649	Chloroaniline, p-	106-47-8	S	72.5	232	-		1.169	3	22000
650	**Chlorobenzene; (Benzene chloride)**	**108-90-7**	L	-45.6	167.8	12	25	1.11	3	13000
651	Chlorobenzotrifluoride, 2-	88-16-4	L	-6	152.2			1.254 @ 30C		
652	Chlorobenzylate; (4,4'-Dichlorobenzilic acid ethyl ester)	510-15-6	L		146-148	<<0.001			3	
653	**Chlorobenzylidene malononitrile, o-**	**2698-41-1**	S	95	313	0.00003	20		3	
654	Chlorobutane, 1-; (Butyl chloride)	109-69-3	L	-123.1	78.5	80.1	20	0.892 @ 15C	3	18000
655	Chlorobutane, 2-; (Sec-butyl chloride)	78-86-4	L	-140	68.5			0.873	3	
656	Chlorobutyryl chloride, 4-	4635-59-0	L		173.5	1.32	25	1.258	3	55000
657	Chlorocyclohexanol, trans-2-	6628-80-4	S	29	93				3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
644	**Chloroacetic acid; (Monochloroacetic acid)**	**79-11-8**	09/30/97	02/01/08	10/15/06	GOEV, EPA, RTECS.	4
645	**Chloroacetone**	**78-95-5**	01/04/99	02/01/08	11/21/07	GOEV, EPA.	NA
646	**Chloroacetonitrile**	**107-14-2**		02/01/08	08/16/07	EPA.	3
647	**Chloroacetyl chloride**	**79-04-9**	10/31/92	02/01/08	11/28/07	GOEV, EPA.	3
648	Chloroallyl)-3,5,7-triaza-1-azoniaadamantane chloride, 1-(3-	4080-31-3	07/09/97		10/15/06		NA
649	Chloroaniline, p-	106-47-8	08/21/96		10/15/06		NA
650	**Chlorobenzene; (Benzene chloride)**	**108-90-7**	08/21/96		06/27/08	GOEV, EPA.	3
651	Chlorobenzotrifluoride, 2-	88-16-4			10/15/06		1
652	Chlorobenzylate; (4,4'-Dichlorobenzilic acid ethyl ester)	510-15-6	09/30/97		10/15/06		NA
653	**Chlorobenzylidene malononitrile, o-**	**2698-41-1**			07/30/07	AIHA	NA
654	Chlorobutane, 1-; (Butyl chloride)	109-69-3			10/15/06		1
655	Chlorobutane, 2-; (Sec-butyl chloride)	78-86-4			04/20/07		1
656	Chlorobutyryl chloride, 4-	4635-59-0			04/20/07		NA
657	Chlorocyclohexanol, trans-2-	6628-80-4	03/01/00		10/15/06		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
658	Chlorocyclohexene; (4-Chlorocyclohexene)	930-65-4	N.I.S. etc.	116.59	ppm	N	4.77	C6.H9.Cl
659	Chlorodecane, 1-	1002-69-3	N.I.S.	176.73	ppm	N	7.22	C10.H21.Cl
660	Chlorodiethylaluminum; (Diethylaluminum chloride)	96-10-6	DHI885	120.57	mg/m3	Y	4.93	(C.H3.C.H2)2..Al.Cl
661	Chlorodifluoromethane	75-45-6	CFX500	86.47	ppm	N	3.53	C.H.Cl.F2
662	Chloroethanesulfonyl chloride, 2-	1622-32-8	CGO125	163.02	mg/m3	N	6.66	C2.H4.Cl2.O2.S
663	Chloroethyl chloroformate	627-11-2	CGU199	142.97	mg/m3	N	5.84	C3.H4.Cl2.O2
664	Chloroethyl vinyl ether, 2-; (Ethene, 2-chloroethoxy-)	110-75-8	CHI250	106.56	ppm	Y	4.36	C4.H7.Cl.O
665	Chloroethylchloromethylsulfide, 2-	2625-76-5	N.I.S., etc.	145.05	ppm	Y	5.93	C3.H6.Cl2.S
666	**Chloroform**	**67-66-3**	CHJ500	119.37	ppm	Y	4.88	C.H..Cl3
667	Chloroform-D; (Deuterated chloroform)	865-49-6	N.I.S.etc.	120.40	ppm	Y	4.92	C.D.Cl3
668	Chloro-m-cresol, 4-	59-50-7	CFD990	142.59	mg/m3	N	5.83	C7.H7.Cl.O
669	**Chloromethyl methyl ether**	**107-30-2**	CIO250	80.52	ppm	N	3.29	C2.H5.Cl.O
670	**Chloromethyl(trichloro)silane**	**1558-25-4**	CIY325	183.92	ppm	N	7.52	C.H2.Cl4.Si
671	Chloro-methyl-isothiazolin-3-one, 5-	26172-55-4	CIN100	149.60	mg/m3	N	6.11	C4.H4.Cl.N.O.S

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
658	Chlorocyclohexene; (4-Chlorocyclohexene)	930-65-4	L							14000
659	Chlorodecane, 1-	1002-69-3	L	-34	223			0.871		
660	Chlorodiethylaluminum; (Diethylaluminum chloride)	96-10-6	S	-50	208			0.961 @ 25C	3	12000
661	Chlorodifluoromethane	75-45-6	G	-146.1	-40.6	9.4		1.49 gas @ 69C	1	
662	Chloroethanesulfonyl chloride, 2-	1622-32-8	S		200-203			1.555 @ 20C	3	
663	Chloroethyl chloroformate	627-11-2	L		155.7	13	48-49	1.3847 @ 20C	3	
664	Chloroethyl vinyl ether, 2-; (Ethene, 2-chloroethoxy-)	110-75-8	L	-70.3	108	30	25	1.05 @ 20C	3	
665	Chloroethylchloromethylsulfide, 2-	2625-76-5								
666	**Chloroform**	**67-66-3**	L	-63.3	61.7	160	20	1.481	3	120000
667	Chloroform-D; (Deuterated chloroform)	865-49-6	L	-64	60.9			1.5004		120000
668	Chloro-m-cresol, 4-	59-50-7	S	55.5	235				3	
669	**Chloromethyl methyl ether**	**107-30-2**	L					1.07	3	
670	**Chloromethyl(trichloro)silane**	**1558-25-4**	L	111-112	118			1.465	3	
671	Chloro-methyl-isothiazolin-3-one, 5-	26172-55-4	L						D	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
658	Chlorocyclohexene; (4-Chlorocyclohexene)	930-65-4			10/15/06		NA
659	Chlorodecane, 1-	1002-69-3			10/15/06		NA
660	Chlorodiethylaluminum; (Diethylaluminum chloride)	96-10-6			10/15/06		3
661	Chlorodifluoromethane	75-45-6	08/21/96		10/15/06		NA
662	Chloroethanesulfonyl chloride, 2-	1622-32-8			10/15/06		NA
663	Chloroethyl chloroformate	627-11-2			10/15/06		NA
664	Chloroethyl vinyl ether, 2-; (Ethene, 2-chloroethoxy-)	110-75-8			10/15/06		2
665	Chloroethylchloromethylsulfide, 2-	2625-76-5			10/15/06		NA
666	**Chloroform**	**67-66-3**	10/31/92	02/01/08	08/13/07	GOEV, EPA.	2
667	Chloroform-D; (Deuterated chloroform)	865-49-6			10/15/06		NA
668	Chloro-m-cresol, 4-	59-50-7	01/04/99		10/15/06		NA
669	**Chloromethyl methyl ether**	**107-30-2**	08/21/96	02/01/08	08/13/07	EPA.	NA
670	**Chloromethyl(trichloro)silane**	**1558-25-4**		07/18/08	06/30/08	EPA.	NA
671	Chloro-methyl-isothiazolin-3-one, 5-	26172-55-4	06/22/07		06/22/07	GOEV, RTECS	NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
672	Chloronaphthalene, 1-; (alpha-Chloronaphthalene)	90-13-1	CIZ000	162.62	mg/m3	N	6.65	C10.H7.Cl
673	Chloronaphthalene, 2-; (beta-Chloronaphthalene)	91-58-7	CJA000	162.62	mg/m3	N	6.65	C10.H7.Cl
674	Chloronitrobenzene, p- ; (p-Nitrochlorobenzene)	100-00-5	NFS525	157.56	mg/m3	N	6.44	C6.H4.Cl.N.O2
675	Chloroperoxybenzoic acid, 3-	937-14-4	CJI750	172.57	mg/m3	N	7.05	Cl.C6.H4.C.O..O.O.H
676	Chlorophacinone	3691-35-8	CJJ000	374.83	mg/m3	N	15.32	C23.H15.Cl.O3
677	Chlorophenol, 4-; (p-Chlorophenol)	106-48-9	CJK750	128.56	mg/m3	Y	5.25	C6.H5.Cl.O
678	Chlorophenol, m-	108-43-0	CJK500	128.56	mg/m3	N	5.25	C6.H5.Cl.O
679	Chlorophenol, o-	95-57-8	CJK250	128.56	ppm	N	5.25	C6.H5.Cl.O
680	Chlorophenyl phenyl ether, 4-	7005-72-3	N.I.S.	204.65	mg/m3	N	8.36	C12.H9.Cl.O
681	Chlorophenyl thiourea, 2-	5344-82-1	CKL000	186.67	mg/m3	N	7.63	C7.H7.Cl.N2.S
682	Chloropicrin/Methyl bromide mixture	8004-09-9	N.I.S. etc.	105.00	mg/m3	Y	4.29	[Unspecified]
683	Chloropicrin/Methyl chloride mixture	z-0007	N.I.S. etc.	85.00	mg/m3	Y	3.47	[Unspecified]
684	**Chloropicrin; (Trichloronitromethane)**	**76-06-2**	CKN500	164.37	ppm	Y	6.72	C.Cl3.NO2
685	Chloroprene; (Neoprene)	126-99-8	NCI500	88.54	ppm	Y	3.62	C4.H5.Cl

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
672	Chloronaphthalene, 1-; (alpha-Chloronaphthalene)	90-13-1	L	-20	263			1.194	2	
673	Chloronaphthalene, 2-; (beta-Chloronaphthalene)	91-58-7	S	61	256			1.377	2	
674	Chloronitrobenzene, p- ; (p-Nitrochlorobenzene)	100-00-5	S	83	242			1.52	3	
675	Chloroperoxybenzoic acid, 3-	937-14-4	S	94					2	
676	Chlorophacinone	3691-35-8	S						3	
677	Chlorophenol, 4-; (p-Chlorophenol)	106-48-9	S	43.5	220	1	49.8	1.246 @ 60C	3	17000
678	Chlorophenol, m-	108-43-0	S	33	210-214	1	44.2	1.245	3	
679	Chlorophenol, o-	95-57-8	L	7	174.5	1	12.1	1.263	3	
680	Chlorophenyl phenyl ether, 4-	7005-72-3	L	-8	284-285	0.0027	25	1.2026 @15C		
681	Chlorophenyl thiourea, 2-	5344-82-1	S	146	323	0.000002	25		3	
682	Chloropicrin/Methyl bromide mixture	8004-09-9	L							
683	Chloropicrin/Methyl chloride mixture	z-0007	L							
684	**Chloropicrin; (Trichloronitromethane)**	**76-06-2**	L	-69.4	112.2	20	20	1.692	3	
685	Chloroprene; (Neoprene)	126-99-8	L		59.4			0.958	3	40000

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
672	Chloronaphthalene, 1-; (alpha-Chloronaphthalene)	90-13-1	09/30/97		10/15/06		2
673	Chloronaphthalene, 2-; (beta-Chloronaphthalene)	91-58-7	11/15/96		10/15/06		NA
674	Chloronitrobenzene, p- ; (p-Nitrochlorobenzene)	100-00-5	09/30/97		10/15/06		2
675	Chloroperoxybenzoic acid, 3-	937-14-4	08/07/98		10/15/06		NA
676	Chlorophacinone	3691-35-8			10/15/06		NA
677	Chlorophenol, 4-; (p-Chlorophenol)	106-48-9			10/15/06		4
678	Chlorophenol, m-	108-43-0	01/04/99		10/15/06		NA
679	Chlorophenol, o-	95-57-8	08/21/96		10/15/06		2
680	Chlorophenyl phenyl ether, 4-	7005-72-3			10/15/06		NA
681	Chlorophenyl thiourea, 2-	5344-82-1			10/15/06		NA
682	Chloropicrin/Methyl bromide mixture	8004-09-9			10/15/06		NA
683	Chloropicrin/Methyl chloride mixture	z-0007			10/15/06		
684	**Chloropicrin; (Trichloronitromethane)**	**76-06-2**	10/31/92		06/27/08	EPA.	4
685	Chloroprene; (Neoprene)	126-99-8	09/30/97		08/13/07	GOEV, AIHA.	2

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
686	Chloropropanol, 3-; (1-Propanol, 3-chloro)	627-30-5	CKP600	94.55	mg/m3	N	3.86	C3.H7.Cl.O
687	Chloropropionitrile, 3-	542-76-7	CKT250	89.53	ppm	N	3.66	C3.H4.Cl.N
688	Chloropropyl)trimethoxysilane, 3-(; (3-(Trimethoxysilyl)propyl chloride)	2530-87-2	TLC300	198.75	ppm	N	8.12	C6.H15.Cl.O3.Si
689	Chloropropylene, 2-	557-98-2	CKS000	76.53	ppm	N	3.13	C3.H5.Cl
690	Chloropropyl-n-octylsulfoxide, 3-	3569-57-1	CKU750	238.85	mg/m3	N	9.76	C11.H23.Cl.O.S
691	Chloro-p-toluenesulfonamide, sodium salt, n-; (Chloramine T)	127-65-1	CDP000	228.66	mg/m3	N	9.35	C7.H8.Cl.N.O2.S..Na
692	Chlorosarin; (o-Isopropyl methylphosphonochloridate)	1445-76-7	N.I.S., etc.	156.55	ppm	N	6.40	C4.H10.Cl.O2.P
693	Chlorosoman; (o-Pinacolyl methylphosphonochloridate)	7040-57-5	N.I.S.	198.63	ppm	N	8.12	C7.H16.Cl.O2.P
694	**Chlorosulfonic acid; (Chlorosulfuric acid)**	**7790-94-5**	CLG500	116.52	mg/m3	Y	4.76	Cl.S.O2.OH
695	Chlorothalonil; (Tetrachloroisophthalonitrile)	1897-45-6	TBQ750	265.90	mg/m3	N	10.87	C8.Cl4.N2
696	Chlorotoluene, 2-; (o-Chlorotoluene)	95-49-8	CLK100	126.59	ppm	Y	5.17	C.H3.C6.H4.Cl
697	Chlorotoluene, 4-; (p-Tolyl chloride)	106-43-4	TGY075	126.59	ppm	N	5.17	C.H3.C6.H4.Cl
698	Chlorotrifluoroethene, homopolymer	9002-83-9	KDK000		mg/m3	N		(C2.Cl.F3)n
699	**Chlorotrifluoroethylene**	**79-38-9**	CLQ750	116.47	ppm	N	4.76	Cl.F.C..C.F2

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
686	Chloropropanol, 3-; (1-Propanol, 3-chloro)	627-30-5	L		165			1.309 @ 20C	2	
687	Chloropropionitrile, 3-	542-76-7	L	-51	176	2.5	25	1.1363 @ 25C	3	
688	Chloropropyl)trimethoxysilane, 3-(; (3-(Trimethoxysilyl)propyl chloride)	2530-87-2	L		195	<5	25	1.09	3	
689	Chloropropylene, 2-	557-98-2	G/L	-138.6	22.65	819	25	0.9017 @ 20C	3	45000
690	Chloropropyl-n-octylsulfoxide, 3-	3569-57-1	L		338	0.00002	25		3	
691	Chloro-p-toluenesulfonamide, sodium salt, n-; (Chloramine T)	127-65-1	S powd	167-170					3	
692	Chlorosarin; (o-Isopropyl methylphosphonochloridate)	1445-76-7								
693	Chlorosoman; (o-Pinacolyl methylphosphonochloridate)	7040-57-5								
694	**Chlorosulfonic acid; (Chlorosulfuric acid)**	**7790-94-5**	L	-80	158	1	32	1.77	3	
695	Chlorothalonil; (Tetrachloroisophthalonitrile)	1897-45-6	S	250-251	350	5.7E-07	25	2.8	3	
696	Chlorotoluene, 2-; (o-Chlorotoluene)	95-49-8	L	-35.1	159.2			1.0776	3	10000
697	Chlorotoluene, 4-; (p-Tolyl chloride)	106-43-4	L	7.5	162.4			1.0697	3	7000
698	Chlorotrifluoroethene, homopolymer	9002-83-9	S						2	
699	**Chlorotrifluoroethylene**	**79-38-9**	G	-157.5	-27.9	>760		1.305	3	84000

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
686	Chloropropanol, 3-; (1-Propanol, 3-chloro)	627-30-5	04/15/07		04/20/07		NA
687	Chloropropionitrile, 3-	542-76-7			10/15/06		2
688	Chloropropyl)trimethoxysilane, 3-(; (3-(Trimethoxysilyl)propyl chloride)	2530-87-2	04/15/07		04/20/07		NA
689	Chloropropylene, 2-	557-98-2			10/15/06		2
690	Chloropropyl-n-octylsulfoxide, 3-	3569-57-1			10/15/06		NA
691	Chloro-p-toluenesulfonamide, sodium salt, n-; (Chloramine T)	127-65-1	01/04/99		11/21/07	RTECS	NA
692	Chlorosarin; (o-Isopropyl methylphosphonochloridate)	1445-76-7			11/21/07	EPA	NA
693	Chlorosoman; (o-Pinacolyl methylphosphonochloridate)	7040-57-5			10/15/06		NA
694	**Chlorosulfonic acid; (Chlorosulfuric acid)**	**7790-94-5**	10/31/92	07/18/08	07/01/08	GOEV, EPA.	4
695	Chlorothalonil; (Tetrachloroisophthalonitrile)	1897-45-6	06/25/07		06/25/07	RTECS.	NA
696	Chlorotoluene, 2-; (o-Chlorotoluene)	95-49-8	09/30/97	02/22/08	02/22/08	GOEV, RTECS.	2
697	Chlorotoluene, 4-; (p-Tolyl chloride)	106-43-4	09/30/97		10/15/06		NA
698	Chlorotrifluoroethene, homopolymer	9002-83-9			10/15/06		NA
699	**Chlorotrifluoroethylene**	**79-38-9**	10/31/92		06/27/08	GOEV, AEPA.	3

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
700	Chlorotrifluoromethane; (CFC-13)	75-72-9	CLR250	104.46	ppm	N	4.27	C.Cl.F3
701	**Chlorovinylarsine dichloride; (Lewisite 1)**	**541-25-3**	CLV000	207.31	mg/m3	Y	8.47	C2.H2.As.Cl3
702	Chloroxuron	1982-47-4	CJQ000	290.77	mg/m3	N	11.88	C15.H15.Cl.N2.O2
703	Chlorpyrifos; (Dursban)	2921-88-2	CMA100	350.59	mg/m3	Y	14.33	C9.H11.Cl3.N.O3.P.S
704	Chlorsulfuran	64902-72-3	CMA700	367.80	mg/m3	N	15.03	C12.H12.Cl.N.5.O4.S
705	Chlorthiophos	21923-23-9	CLB022	361.25	mg/m3	Y	14.76	C11.H15.Cl2.O3.P.S2
706	Chromates	13907-45-4	N.I.S.	99.99	mg/m3	Y	4.09	Cr.O3
707	Chromic acetate; (Chromium(III) acetate)	1066-30-4	CMH000	229.15	mg/m3	N	9.37	Cr.C6.H9.O6
708	Chromic acid ester	11115-74-5	N.I.S.	118.02	mg/m3	Y	4.82	Cr.H2.O4
709	Chromic chloride; (Chromium(III) chloride)	10025-73-7	CMJ250	158.35	mg/m3	N	6.47	Cr.Cl3
710	Chromic oxide; (Chromium(III) oxide, chromium sesquioxide)	1308-38-9	CMJ900	152.00	mg/m3	Y	6.21	Cr2.O3
711	Chromic sulfate; (Chromium(III) sulfate (2:3))	10101-53-8	CMK415	392.18	mg/m3	Y	16.03	O12.S3·2 Cr
712	Chromic trihydroxide; (Chromic(III) acid; Chromium hydroxide)	1308-14-1	CMH260	103.03	mg/m3	Y	4.21	Cr.H3.O3
713	Chromic trioxide; (Chromium(VI) oxide (1:3))	1333-82-0	CMK000	100.00	mg/m3	Y	4.09	Cr.O3

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
700	Chlorotrifluoromethane; (CFC-13)	75-72-9	G	-181	-81.4	21400	25		1	
701	**Chlorovinylarsine dichloride; (Lewisite 1)**	**541-25-3**	L	-13	190 dec	0.4	20	1.888 @ 20C	3	
702	Chloroxuron	1982-47-4	S	151-152		3.9E-09	20	1.34 @ 20C	2	
703	Chlorpyrifos; (Dursban)	2921-88-2	S	42-43.5					3	
704	Chlorsulfuran	64902-72-3	S	174-178	192 dec	0.81313	25		2	
705	Chlorthiophos	21923-23-9	L		150					
706	Chromates	13907-45-4							3	
707	Chromic acetate; (Chromium(III) acetate)	1066-30-4	S						3	
708	Chromic acid ester	11115-74-5	S							
709	Chromic chloride; (Chromium(III) chloride)	10025-73-7	S	1152	1300 subl			1.76	3	
710	Chromic oxide; (Chromium(III) oxide, chromium sesquioxide)	1308-38-9	S	2435	4000			5.21	3	
711	Chromic sulfate; (Chromium(III) sulfate (2:3))	10101-53-8	S					3.012	3	
712	Chromic trihydroxide; (Chromic(III) acid; Chromium hydroxide)	1308-14-1	S						3	
713	Chromic trioxide; (Chromium(VI) oxide (1:3))	1333-82-0	S.del	190	dec			2.70	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
700	Chlorotrifluoromethane; (CFC-13)	75-72-9			10/15/06		NA
701	**Chlorovinylarsine dichloride; (Lewisite 1)**	**541-25-3**		07/18/08	08/10/07	EPA	NA
702	Chloroxuron	1982-47-4			10/15/06		NA
703	Chlorpyrifos; (Dursban)	2921-88-2	01/04/99		10/15/06		NA
704	Chlorsulfuran	64902-72-3			10/15/06		NA
705	Chlorthiophos	21923-23-9			10/15/06		NA
706	Chromates	13907-45-4	08/07/98		10/15/06		NA
707	Chromic acetate; (Chromium(III) acetate)	1066-30-4			10/15/06		NA
708	Chromic acid ester	11115-74-5			04/20/07		NA
709	Chromic chloride; (Chromium(III) chloride)	10025-73-7	08/07/98		10/15/06		3
710	Chromic oxide; (Chromium(III) oxide, chromium sesquioxide)	1308-38-9	08/21/96		10/15/06		NA
711	Chromic sulfate; (Chromium(III) sulfate (2:3))	10101-53-8	01/04/99		10/15/06		NA
712	Chromic trihydroxide; (Chromic(III) acid; Chromium hydroxide)	1308-14-1	09/30/97		10/15/06		NA
713	Chromic trioxide; (Chromium(VI) oxide (1:3))	1333-82-0	09/30/97		10/15/06		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
714	Chromic(VI) acid	7738-94-5	CMH250	118.02	mg/m3	Y	4.82	Cr.H2.O4
715	Chromite; (Chromite (mineral))	1308-31-2	CMI500	223.85	mg/m3	N	9.15	Cr2.Fe.O4
716	Chromium	7440-47-3	CMI750	52.00	mg/m3	N	2.13	Cr
717	Chromium nitrate	10103-47-6	N.I.S.	493.14	mg/m3	N	20.16	Cr.X(H.N.O3)
718	Chromium nitrate nonahydrate	7789-02-8	CMJ610	400.21	mg/m3	N	16.36	N3.O9.Cr..9 H2.O
719	Chromium perchlorate, hydrated	13537-21-8	CMI300	350.35	mg/m3	N	14.32	Cr..Cl3.O12
720	Chromium(III) acetate hydroxide	39430-51-8	N.I.S.	250.00	mg/m3	N	10.22	(Unknown)
721	Chromium(III) chloride, hexahydrate	10060-12-5	CMK450	266.47	mg/m3	Y	10.89	Cl3.Cr.H12.O6
722	Chromium(III) fluoride	7788-97-8	CMJ560	109.00	mg/m3	N	4.45	Cr.F3
723	Chromium(III) nitrate	13548-38-4	CMJ600	238.03	mg/m3	N	9.73	Cr.N3.O9
724	Chromium(III) oxide hydroxide; (Chromium oxyhydroxide)	20770-05-2	N.I.S.	85.00	mg/m3	Y	3.47	Cr.O.(O.H)
725	Chromium(III) potassium sulfate (1:1:2), dodecahydrate	7788-99-0	CMG850	499.41	mg/m3	N	20.41	Cr.K.O8.S2..12(H2.O)
726	Chromium(VI) hydroxide	12626-43-6	N.I.S.	154.04	mg/m3	N	6.30	Cr.(O.H)6
727	Chromous chloride; (Chromium(II) chloride (1:2))	10049-05-5	CMJ300	122.90	mg/m3	N	5.02	Cr.Cl2

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
714	Chromic(VI) acid	7738-94-5	S	196	dec			1.67 - 2.82	3	
715	Chromite; (Chromite (mineral))	1308-31-2	S					4.97 @ 20C	3	
716	Chromium	7440-47-3	S	1900	2200	~0	20	7.1	3	
717	Chromium nitrate	10103-47-6	S							
718	Chromium nitrate nonahydrate	7789-02-8	S(?)						2	
719	Chromium perchlorate, hydrated	13537-21-8	S						3	
720	Chromium(III) acetate hydroxide	39430-51-8	S							
721	Chromium(III) chloride, hexahydrate	10060-12-5	S hygr.	83				1.76	3	
722	Chromium(III) fluoride	7788-97-8	S	1400				3.8	3	
723	Chromium(III) nitrate	13548-38-4	S	60	100 dec				3	
724	Chromium(III) oxide hydroxide; (Chromium oxyhydroxide)	20770-05-2								
725	Chromium(III) potassium sulfate (1:1:2), dodecahydrate	7788-99-0	S	89				1.83	3	
726	Chromium(VI) hydroxide	12626-43-6	S							
727	Chromous chloride; (Chromium(II) chloride (1:2))	10049-05-5	S	824	1300			2.751 @ 14C	2	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
714	Chromic(VI) acid	7738-94-5	08/21/96		10/15/06		3
715	Chromite; (Chromite (mineral))	1308-31-2	08/07/98		10/15/06		NA
716	Chromium	7440-47-3	08/21/96		10/15/06		NA
717	Chromium nitrate	10103-47-6			10/15/06		NA
718	Chromium nitrate nonahydrate	7789-02-8	09/30/97		10/15/06		NA
719	Chromium perchlorate, hydrated	13537-21-8			10/15/06		NA
720	Chromium(III) acetate hydroxide	39430-51-8			10/15/06		NA
721	Chromium(III) chloride, hexahydrate	10060-12-5			10/15/06		NA
722	Chromium(III) fluoride	7788-97-8			10/15/06		NA
723	Chromium(III) nitrate	13548-38-4	07/09/97		10/15/06		NA
724	Chromium(III) oxide hydroxide; (Chromium oxyhydroxide)	20770-05-2			10/15/06		NA
725	Chromium(III) potassium sulfate (1:1:2), dodecahydrate	7788-99-0			10/15/06		NA
726	Chromium(VI) hydroxide	12626-43-6			10/15/06		NA
727	Chromous chloride; (Chromium(II) chloride (1:2))	10049-05-5			10/15/06		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
728	Chrysene (coal tar volatile)	218-01-9	CML810	228.30	mg/m3	N	9.33	C18.H12
729	Cinnamaldehyde	104-55-2	CMP969	132.17	mg/m3	Y	5.40	C9.H8.O
730	Cinnamaldehyde, (E); (trans-Cinnamaldehyde)	14371-10-9	CMP971	132.17	ppm	N	5.40	C9.H8.O
731	Citric acid	77-92-9	CMS750	192.14	mg/m3	Y	7.85	C6.H8.O7
732	Citric acid monohydrate	5949-29-1	N.I.S.	210.16	mg/m3	N	8.59	C6.H8.O7
733	Citric acid, trisodium salt, dihydrate	6132-04-3	N.I.S. etc., see	294.10	mg/m3	N	12.02	3 Na.C6.H5.O7..2 H2.O
734	Coal tar pitch volatiles; (Particulate polycyclic aromatic hydrocarbons)	65996-93-2	CMZ100		mg/m3	N		[Unspecified]
735	Coal tar, aerosol	8007-45-2a	CMY805		mg/m3	Y		[Unspecified]
736	Coal tar; (Coal tar volatiles)	8007-45-2b	CMY800		mg/m3	Y		[Unspecified]
737	Cobalt	7440-48-4	CNA250	58.93	mg/m3	Y	2.41	Co
738	Cobalt acetate tetrahydrate; (Cobaltous acetate tetrahydrate)	6147-53-1	CNA500	249.11	mg/m3	Y	10.18	Co..C4.H6.O4..4 H2.O
739	Cobalt carbonyl	10210-68-1	CNB500	341.94	mg/m3	N	13.98	Co2.C8.O8
740	Cobalt chloride	7646-79-9	CNB599	129.83	mg/m3	N	5.31	Co.Cl2
741	**Cobalt hydrocarbonyl**	**16842-03-8**	CNC230	171.98	ppm	Y	7.03	H.Co..(C.O)4

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
728	Chrysene (coal tar volatile)	218-01-9	S	254	448			1.274	3	
729	Cinnamaldehyde	104-55-2	L	-7.5	253	1	78	1.05	3	
730	Cinnamaldehyde, (E); (trans-Cinnamaldehyde)	14371-10-9	L	-7.5	252			1.048	D	
731	Citric acid	77-92-9						1.665	3	2800
732	Citric acid monohydrate	5949-29-1	S	153	dec			1.655 @ 20C		
733	Citric acid, trisodium salt, dihydrate	6132-04-3	S	>300 dec					3	
734	Coal tar pitch volatiles; (Particulate polycyclic aromatic hydrocarbons)	65996-93-2	L						3	
735	Coal tar, aerosol	8007-45-2a	S						2	
736	Coal tar; (Coal tar volatiles)	8007-45-2b	L					1.18-1.23	3	
737	Cobalt	7440-48-4	S	1495	3100			8.92	3	
738	Cobalt acetate tetrahydrate; (Cobaltous acetate tetrahydrate)	6147-53-1	L							
739	Cobalt carbonyl	10210-68-1	S	51	52 decom	0.07	15	1.87	3	
740	Cobalt chloride	7646-79-9	S	735	1049			3.348	3	
741	**Cobalt hydrocarbonyl**	**16842-03-8**	L/G unstble	-33	10				3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
728	Chrysene (coal tar volatile)	218-01-9	08/21/96		10/15/06		NA
729	Cinnamaldehyde	104-55-2			10/15/06		NA
730	Cinnamaldehyde, (E); (trans-Cinnamaldehyde)	14371-10-9			10/15/06		NA
731	Citric acid	77-92-9	07/09/97		10/15/06		NA
732	Citric acid monohydrate	5949-29-1			10/15/06		NA
733	Citric acid, trisodium salt, dihydrate	6132-04-3			10/15/06		NA
734	Coal tar pitch volatiles; (Particulate polycyclic aromatic hydrocarbons)	65996-93-2	09/30/97		10/15/06		NA
735	Coal tar, aerosol	8007-45-2a	09/30/97		10/15/06		
736	Coal tar; (Coal tar volatiles)	8007-45-2b	09/30/97		10/15/06		
737	Cobalt	7440-48-4	09/30/97		10/15/06		NA
738	Cobalt acetate tetrahydrate; (Cobaltous acetate tetrahydrate)	6147-53-1			10/15/06		NA
739	Cobalt carbonyl	10210-68-1			10/15/06		NA
740	Cobalt chloride	7646-79-9	01/04/99		10/15/06		NA
741	**Cobalt hydrocarbonyl**	**16842-03-8**		02/25/08	02/25/08	GOEV, AIHA	NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
742	Cobalt hydroxide	21041-93-0	CNC231	92.95	mg/m3	N	3.80	Co.(O.H)2
743	Cobalt nitrate hexahydrate; (Cobaltous nitrate hexahydrate)	10026-22-9	CND010	291.07	mg/m3	N	11.90	Co.(N.O3)2.6 H2O
744	Cobalt nitrate; (Cobalt(II) nitrate)	10141-05-6	CNC500	182.95	mg/m3	N	7.48	Co.N2.O6
745	Cobalt nitrite	32486-57-0	N.I.S. etc.	150.93	mg/m3	N	6.17	Co.(N.O2)2
746	Cobalt oxide	1308-06-1	CND020	240.79	mg/m3	N	9.84	Co3.O4
747	Cobalt sulfate	10124-43-3	CNE125	154.99	mg/m3	N	6.33	Co.S.O4
748	Cobalt sulfate heptahydrate; (Cobalt(II) sulfate(1:1), heptahydrate)	10026-24-1	CNE150	281.13	mg/m3	N	11.49	Co.S.O4..7 H2.O
749	Cobalt tetraphenylporphine	14172-90-8	N.I.S.		mg/m3	N		[Unknown]
750	Cobalt(II) chloride hexahydrate	7791-13-1	CNB800	237.95	mg/m3	N	9.73	Co.Cl2..6 H2.O
751	Cobalt(II) oxide	1307-96-6	CND125	74.93	mg/m3	N	3.06	Co.O
752	Cobalt(II) perchlorate, hexahydrate	13478-33-6	CND900	365.95	mg/m3	N	14.96	Co,,Cl2.O8..6 H2.O
753	Cobalt(II) sulfate hydrate	60459-08-7	N.I.S. etc.	173.00	mg/m3	N	7.07	Co.S.O4..H2.O
754	Cobalt, ((2,2'-(1,2-ethanediylbis(nitrilomethylidyne))bis(6-fluorophenolato))(2-)-N,N',O,O')-	62207-76-5	EIS000	361.23	mg/m3	Y	14.76	C16.H12.Co.F2.N2.O2
755	Cobaltous bromide; (Cobalt(II) bromide)	7789-43-7	CNB250	218.75	mg/m3	N	8.94	Co.Br2

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
742	Cobalt hydroxide	21041-93-0	S						2	
743	Cobalt nitrate hexahydrate; (Cobaltous nitrate hexahydrate)	10026-22-9	S	~55	>74			1.88	3	
744	Cobalt nitrate; (Cobalt(II) nitrate)	10141-05-6	S	55	75 dec			1.87	3	
745	Cobalt nitrite	32486-57-0	S							
746	Cobalt oxide	1308-06-1	S	900 dec					2	
747	Cobalt sulfate	10124-43-3	S	735	dec			3.71	3	
748	Cobalt sulfate heptahydrate; (Cobalt(II) sulfate(1:1), heptahydrate)	10026-24-1	S	735				3.71	3	
749	Cobalt tetraphenylporphine	14172-90-8								
750	Cobalt(II) chloride hexahydrate	7791-13-1	S	86	1049			1.924	3	
751	Cobalt(II) oxide	1307-96-6	S	1935				6.45	3	
752	Cobalt(II) perchlorate, hexahydrate	13478-33-6	S						0	
753	Cobalt(II) sulfate hydrate	60459-08-7	S							
754	Cobalt, ((2,2'-(1,2-ethanediylbis(nitrilomethylidyne))bis(6-fluorophenolato))(2-)-N,N',O,O')-	62207-76-5	S			0.00001	25		3	
755	Cobaltous bromide; (Cobalt(II) bromide)	7789-43-7	S	678				4.909 @ 25C	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
742	Cobalt hydroxide	21041-93-0			10/15/06		NA
743	Cobalt nitrate hexahydrate; (Cobaltous nitrate hexahydrate)	10026-22-9			10/15/06		NA
744	Cobalt nitrate; (Cobalt(II) nitrate)	10141-05-6	08/07/98		10/15/06		NA
745	Cobalt nitrite	32486-57-0			10/15/06		
746	Cobalt oxide	1308-06-1			10/15/06		NA
747	Cobalt sulfate	10124-43-3			10/15/06		NA
748	Cobalt sulfate heptahydrate; (Cobalt(II) sulfate(1:1), heptahydrate)	10026-24-1			10/15/06		NA
749	Cobalt tetraphenylporphine	14172-90-8	08/07/98		10/15/06		NA
750	Cobalt(II) chloride hexahydrate	7791-13-1			10/15/06		NA
751	Cobalt(II) oxide	1307-96-6	08/07/98		10/15/06		NA
752	Cobalt(II) perchlorate, hexahydrate	13478-33-6			04/20/07		NA
753	Cobalt(II) sulfate hydrate	60459-08-7		02/22/08	02/22/08	GOEV, NIOSH.	NA
754	Cobalt, ((2,2'-(1,2-ethanediylbis(nitrilomethylidyne))bis(6-fluorophenolato))(2-)-N,N',O,O')-	62207-76-5			10/15/06		NA
755	Cobaltous bromide; (Cobalt(II) bromide)	7789-43-7			10/15/06		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
756	Cobaltous carbonate	513-79-1	CNB475	118.94	mg/m3	N	4.86	C.O3.Co
757	Colchicine	64-86-8	CNG830	399.48	mg/m3	Y	16.33	C22.H25.N.O6
758	Copper	7440-50-8	CNI000	63.54	mg/m3	N	2.60	Cu
759	Copper cyanide	544-92-3	CNL000	89.56	mg/m3	N	3.66	Cu.C.N
760	Copper hydroxide	20427-59-2	CNM500	97.56	mg/m3	N	3.99	Cu.(O.H)2
761	Copper nitrate; (Cupric nitrate)	3251-23-8	CNM750	187.55	mg/m3	Y	7.67	Cu.N2.O6
762	Copper oxide	1317-39-1	CNO000	143.08	mg/m3	N	5.85	Cu2.O
763	Copper sulfate	7758-98-7	CNP250	159.60	mg/m3	Y	6.52	Cu.S.O4
764	Copper(I) chloride; (Cuprous chloride)	7758-89-6	CNK250	98.99	mg/m3	N	4.05	Cu.Cl
765	Copper(I) sulfide	22205-45-4	CNP750	159.14	mg/m3	N	6.50	Cu2.S
766	Copper(II) acetate monohydrate	6046-93-1	CNI325	199.66	mg/m3	Y	8.16	Cu.C4.H6.O4..H2.O
767	Copper(II) carbonate hydroxide (2:1:2)	12069-69-1	CNJ750	221.11	mg/m3	N	9.04	2Cu.C.O3..H2.O2
768	Copper(II) chloride (1:2); (Cupric chloride)	7447-39-4	CNK500	134.44	mg/m3	N	5.49	Cl2.Cu
769	Copper(II) chloride dihydrate; (Cupric chloride)	10125-13-0	N.I.S.	170.48	mg/m3	N	6.97	Cu.Cl2..2 H2.O

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
756	Cobaltous carbonate	513-79-1	S					4.13	2	
757	Colchicine	64-86-8	S	155-157	407	0.00001	25		3	
758	Copper	7440-50-8	S	1083	2595	~0	20	8.92	2	
759	Copper cyanide	544-92-3	S	474	1400 dec			2.92	3	
760	Copper hydroxide	20427-59-2	S ins					3.368	2	
761	Copper nitrate; (Cupric nitrate)	3251-23-8	S	255-256	>150 subl			2.047	2	
762	Copper oxide	1317-39-1	S	1235	1800 dec			6	2	
763	Copper sulfate	7758-98-7	S	200				2.284	3	
764	Copper(I) chloride; (Cuprous chloride)	7758-89-6	S	430	1490	1	546	3.53	3	
765	Copper(I) sulfide	22205-45-4	S	1127				5.6	D	
766	Copper(II) acetate monohydrate	6046-93-1	S	115					3	
767	Copper(II) carbonate hydroxide (2:1:2)	12069-69-1	S	200 dec				4	3	
768	Copper(II) chloride (1:2); (Cupric chloride)	7447-39-4	S	498				3.054	3	
769	Copper(II) chloride dihydrate; (Cupric chloride)	10125-13-0	S	100	993 dec			2.51		

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
756	Cobaltous carbonate	513-79-1	08/07/98		10/15/06		NA
757	Colchicine	64-86-8			10/15/06		NA
758	Copper	7440-50-8	08/21/96		10/15/06		NA
759	Copper cyanide	544-92-3			10/15/06		NA
760	Copper hydroxide	20427-59-2			10/15/06		NA
761	Copper nitrate; (Cupric nitrate)	3251-23-8	07/09/97		10/15/06		NA
762	Copper oxide	1317-39-1	08/07/98		10/15/06		NA
763	Copper sulfate	7758-98-7	08/07/98		10/15/06		NA
764	Copper(I) chloride; (Cuprous chloride)	7758-89-6	08/07/98		10/15/06		NA
765	Copper(I) sulfide	22205-45-4			10/15/06		NA
766	Copper(II) acetate monohydrate	6046-93-1			10/15/06		NA
767	Copper(II) carbonate hydroxide (2:1:2)	12069-69-1			10/15/06		NA
768	Copper(II) chloride (1:2); (Cupric chloride)	7447-39-4	07/09/97		10/15/06		NA
769	Copper(II) chloride dihydrate; (Cupric chloride)	10125-13-0			10/15/06		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
770	Copper(II) oxalate	814-91-5	CNN755	153.58	mg/m3	N	6.28	C2.H2.O4..Cu
771	Copper(II) perchlorate, dihydrate	17031-32-2	CNO500	298.48	mg/m3	N	12.20	Cu..Cl2.O8..2(H2.O)
772	Copper(II) sulfate pentahydrate	7758-99-8	CNP500	249.70	mg/m3	N	10.21	Cu.S.O4..5(H2.O)
773	Copper(II) sulfide	1317-40-4	CNQ000	95.60	mg/m3	N	3.91	Cu.S
774	Corn oil	8001-30-7	CNS000		mg/m3	N		
775	Coumaphos	56-72-4	CNU750	362.78	mg/m3	N	14.83	C14.H16.Cl.O5.P.S
776	Coumarin	91-64-5	CNV000	146.15	mg/m3	N	5.97	C9.H6.O2
777	Coumatetralyl; (Endrocide)	5836-29-3	EAT600	292.35	mg/m3	N	11.95	C19.H16.O3
778	Creosote (coal tar)	8001-58-9	CMY825		mg/m3	N		UK
779	Cresols	1319-77-3	CNW500	108.15	ppm	N	4.42	C.H3.C6.H4.O.H
780	Cresyl violet acetate	10510-54-0	N.I.S. etc.	321.33	mg/m3	N	13.13	C18.H15.N3.O3
781	Crimidine; (Castrix)	535-89-7	CCP500	171.65	mg/m3	N	7.02	C7.H10.Cl.N3
782	Cristobalite	14464-46-1	SCJ000	60.09	mg/m3	N	2.46	Si.O2
783	Crocidolite	12001-28-4	ARM275	765.98	mg/m3	N	31.31	O.Na2.Fe2.O33.. Fe.O8.Si.O..2(H2.O)

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
770	Copper(II) oxalate	814-91-5	S						2	
771	Copper(II) perchlorate, dihydrate	17031-32-2	S						3	
772	Copper(II) sulfate pentahydrate	7758-99-8	S	110 lose 4H2O	150 dec			2.286 @ 15.6C	3	
773	Copper(II) sulfide	1317-40-4	S	103 trans.	200			4.6	3	
774	Corn oil	8001-30-7	L	-10				0.92	1	
775	Coumaphos	56-72-4	S	95		9.7E-08	20	1.47 @ 20C	3	
776	Coumarin	91-64-5	S	70-71	291-301.7	a. 0.00098	25 106	0.935	3	
777	Coumatetralyl; (Endrocide)	5836-29-3	S	172-176					3	
778	Creosote (coal tar)	8001-58-9	L		200-->				3	
779	Cresols	1319-77-3	L	10.9 to 35.5	191-203	0.421		1.030 to 1.038	3	11000
780	Cresyl violet acetate	10510-54-0	S	140-143						
781	Crimidine; (Castrix)	535-89-7	S	87	140-147 @ 4mm				3	
782	Cristobalite	14464-46-1	S						3	
783	Crocidolite	12001-28-4	S fibre						3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
770	Copper(II) oxalate	814-91-5			10/15/06		NA
771	Copper(II) perchlorate, dihydrate	17031-32-2			10/15/06		NA
772	Copper(II) sulfate pentahydrate	7758-99-8			10/15/06		NA
773	Copper(II) sulfide	1317-40-4			10/15/06		NA
774	Corn oil	8001-30-7			04/20/07		0
775	Coumaphos	56-72-4			10/15/06		NA
776	Coumarin	91-64-5			10/15/06		NA
777	Coumatetralyl; (Endrocide)	5836-29-3			10/15/06		NA
778	Creosote (coal tar)	8001-58-9	08/21/96		10/15/06		2
779	Cresols	1319-77-3	08/21/96		10/15/06		3
780	Cresyl violet acetate	10510-54-0			10/15/06		NA
781	Crimidine; (Castrix)	535-89-7			10/15/06		NA
782	Cristobalite	14464-46-1	09/30/97		10/15/06		NA
783	Crocidolite	12001-28-4			10/15/06		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
784	**Crotonaldehyde, cis-**	**4170-30-3**	COB250	70.09	ppm	Y	2.86	C.H3.C.H..C.H.C.H.O
785	**Crotonaldehyde, trans-**	**123-73-9**	COB260	70.10	ppm	Y	2.87	C4.H6.O
786	Crotonic Acid	3724-65-0	COB500	86.10	mg/m3	Y	3.52	C4.H6.O2
787	Crystal violet; (Aniline violet)	548-62-9	AOR500	408.03	mg/m3	N	16.68	C25.H30.N3..Cl
788	Cs7SB; (1-(2,2,3,3-tetrafluoropropoxy),3-(4-sec-butylphenoxy)-2-propanol)	308362-88-1	N,I,S, etc.	338.34	mg/m3	Y	13.83	C16.H22.F4.O3
789	Cumene hydroperoxide; (Isopropylbenzene hydroperoxide)	80-15-9	IOB000	152.21	ppm	Y	6.22	C9.H12.O2
790	**Cumene; (Isopropyl benzene)**	**98-82-8**	COE750	120.21	ppm	Y	4.91	C9.H12
791	Cumenol methylcarbamate, m-; (3-(1-methylethyl)phenol methylcarbamate)	64-00-6	COF250	193.27	mg/m3	N	7.90	C11.H15.N.O2
792	Cupferron; (Ammonium-n-nitrosophenylhydroxylamine)	135-20-6	ANO500	156.19	mg/m3	Y	6.38	C6.H6.N2.O2..H4.N
793	Cupric acetate, anhydrous; (Copper acetate)	142-71-2	CNI250	181.64	mg/m3	N	7.42	Cu..C4.H6.O4
794	Cupric nitrate hemipentahydrate	19004-19-4	N.I.S.	241.60	mg/m3	N	9.87	Cu.(N.O3)2..5/2(H2.O)
795	Cupric nitrite	14984-71-5	N.I.S.	155.54	mg/m3	N	6.36	Cu.(N.O2)2
796	Cupric oxide	1317-38-0	CNO250	79.54	mg/m3	N	3.25	Cu.O
797	Cyanamide	420-04-2	COH500	42.05	mg/m3	N	1.72	C3.H5.N3.O4

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
784	**Crotonaldehyde, cis-**	**4170-30-3**	L	-73.9	103.9	19	20	0.853	3	21000
785	**Crotonaldehyde, trans-**	**123-73-9**	L	-69	102.2			0.853	3	21000
786	Crotonic Acid	3724-65-0	S	72	185	0.19	20	1.018 @ 15C	3	
787	Crystal violet; (Aniline violet)	548-62-9	S	215					3	
788	Cs7SB; (1-(2,2,3,3-tetrafluoropropoxy),3-(4-sec-butylphenoxy)-2-propanol)	308362-88-1	L						1	
789	Cumene hydroperoxide; (Isopropylbenzene hydroperoxide)	80-15-9	L		153			1.05	3	9000
790	**Cumene; (Isopropyl benzene)**	**98-82-8**	L	-96	152	10	38.3	0.864	3	8000
791	Cumenol methylcarbamate, m-; (3-(1-methylethyl)phenol methylcarbamate)	64-00-6	S	72-74	143	0.4	25		3	
792	Cupferron; (Ammonium-n-nitrosophenylhydroxylamine)	135-20-6	S	163-164					3	
793	Cupric acetate, anhydrous; (Copper acetate)	142-71-2	S						3	
794	Cupric nitrate hemipentahydrate	19004-19-4	S	115	170 dec					
795	Cupric nitrite	14984-71-5	S							
796	Cupric oxide	1317-38-0	S	1326				6.4	3	
797	Cyanamide	420-04-2	S	45	260			1.282	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
784	**Crotonaldehyde, cis-**	**4170-30-3**	10/31/92	07/18/08	07/30/07	EPA	4
785	**Crotonaldehyde, trans-**	**123-73-9**	03/01/00	02/01/08	08/13/07	EPA	4
786	Crotonic Acid	3724-65-0			10/15/06		3
787	Crystal violet; (Aniline violet)	548-62-9			04/20/07		NA
788	Cs7SB; (1-(2,2,3,3-tetrafluoropropoxy),3-(4-sec-butylphenoxy)-2-propanol)	308362-88-1			04/20/07		NA
789	Cumene hydroperoxide; (Isopropylbenzene hydroperoxide)	80-15-9	01/04/99		10/15/06		1
790	**Cumene; (Isopropyl benzene)**	**98-82-8**	11/15/96	02/01/08	08/13/07	EPA	2
791	Cumenol methylcarbamate, m-; (3-(1-methylethyl)phenol methylcarbamate)	64-00-6			10/15/06		NA
792	Cupferron; (Ammonium-n-nitrosophenylhydroxylamine)	135-20-6	01/04/99		10/15/06		NA
793	Cupric acetate, anhydrous; (Copper acetate)	142-71-2			10/15/06		NA
794	Cupric nitrate hemipentahydrate	19004-19-4	08/21/96		10/15/06		NA
795	Cupric nitrite	14984-71-5			10/15/06		NA
796	Cupric oxide	1317-38-0	08/07/98		10/15/06		NA
797	Cyanamide	420-04-2	09/30/97		10/15/06		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
798	Cyanic acid; (Hydrogen cyanate)	420-05-3	N.I.S., etc.	43.03	ppm	Y	1.76	CHNO
799	Cyanide	57-12-5	COI500	26.02	mg/m3	Y	1.06	C.N
800	Cyanoacetamide	107-91-5	COJ250	84.09	mg/m3	N	3.44	C3.H4.N2.O
801	Cyanogen	460-19-5	COO000	52.04	ppm	Y	2.13	(C.N)2
802	Cyanogen bromide	506-68-3	COO500	105.93	mg/m3	N	4.33	C.N..Br
803	**Cyanogen chloride**	**506-77-4**	COO750	61.47	ppm	Y	2.51	C.N..Cl
804	Cyanogen iodide	506-78-5	COP000	152.92	mg/m3	N	6.25	C.N..I
805	Cyanoguanidene	461-58-5	COP125	84.08	mg/m3	N	3.44	C2.H4.N4
806	Cyanophos	2636-26-2	COQ399	243.23	mg/m3	Y	9.94	C9.H10.N.O3.P.S
807	Cyanuric acid; (1,3,5-Triazine-2,4,6-triol)	108-80-5	THS000	129.09	mg/m3	Y	5.28	C3.H3.N3.O3
808	Cyanuric fluoride; (2,4,6-Trifluoro-s-triazine)	675-14-9	TKK000	135.06	mg/m3	Y	5.52	(C.N)3..F3
809	Cyclohexane	110-82-7	CPB000	84.18	ppm	N	3.44	C6.H12
810	Cyclohexane-1,2-dinitrilotetraacetic acid, trans-; (CyDTA)	13291-61-7	N.I.S.	346.34	mg/m3	N	14.16	C14.H22.N2.O8
811	Cyclohexanediamine, 1,2-	694-83-7	CPB100	114.22	mg/m3	Y	4.67	C6.H14.N2

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
798	Cyanic acid; (Hydrogen cyanate)	420-05-3	G/L unstabl	-86	23			1.140 @ 20C	3+	
799	Cyanide	57-12-5	S						3	
800	Cyanoacetamide	107-91-5	S	119	dec				3	
801	Cyanogen	460-19-5	G	-34.4	-21	>760		0.866 @17C/4C	3	66000
802	Cyanogen bromide	506-68-3	S	52	61.6	122	25	2.015 @ 20C	3	
803	**Cyanogen chloride**	**506-77-4**	G	-6.5	13.1	1010	20	1.218	3	
804	Cyanogen iodide	506-78-5	S	146.5		1	25.2	1.84	3	
805	Cyanoguanidene	461-58-5	S	209.5		3		1.4	3	
806	Cyanophos	2636-26-2	L	14-15	119-120			1.255 @ 25C	3	
807	Cyanuric acid; (1,3,5-Triazine-2,4,6-triol)	108-80-5	S	360	380 subl			2.500 @ 20C	2	
808	Cyanuric fluoride; (2,4,6-Trifluoro-s-triazine)	675-14-9	L	-38	72.4			1.60 @ 25C	3	
809	Cyclohexane	110-82-7	L	6.5	80.7	100	61	0.7791	3	12000
810	Cyclohexane-1,2-dinitrilotetraacetic acid, trans-; (CyDTA)	13291-61-7	S	213-216						
811	Cyclohexanediamine, 1,2-	694-83-7	L		92-93@ 18mmHg			0.952 @ 20C	2	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
798	Cyanic acid; (Hydrogen cyanate)	420-05-3			04/20/07		NA
799	Cyanide	57-12-5	08/21/96		10/15/06		NA
800	Cyanoacetamide	107-91-5	09/30/97		10/15/06		NA
801	Cyanogen	460-19-5	09/30/97		10/15/06		4
802	Cyanogen bromide	506-68-3			10/15/06		4
803	**Cyanogen chloride**	**506-77-4**	08/07/98		11/09/07	GOEV, AIHA.	NA
804	Cyanogen iodide	506-78-5	01/04/99		10/15/06		NA
805	Cyanoguanidene	461-58-5			10/15/06		NA
806	Cyanophos	2636-26-2			10/15/06		NA
807	Cyanuric acid; (1,3,5-Triazine-2,4,6-triol)	108-80-5			04/20/07		NA
808	Cyanuric fluoride; (2,4,6-Trifluoro-s-triazine)	675-14-9			10/15/06		NA
809	Cyclohexane	110-82-7	08/21/96		10/15/06		1
810	Cyclohexane-1,2-dinitrilotetraacetic acid, trans-; (CyDTA)	13291-61-7			10/15/06		NA
811	Cyclohexanediamine, 1,2-	694-83-7	05/13/08			RTECS, SAX, HC&P.	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
812	Cyclohexanedimethanol, cis and trans, 1,4-	105-08-8	BKH325	144.24	mg/m3	N	5.90	C8.H16.O2
813	Cyclohexanol	108-93-0	CPB750	100.16	ppm	Y	4.09	C6.H12.O
814	Cyclohexanone; (Ketohexamethylene)	108-94-1	CPC000	98.16	ppm	Y	4.01	C6.H10.O
815	Cyclohexene	110-83-8	CPC579	82.15	ppm	Y	3.36	C6.H10
816	Cycloheximide	66-81-9	CPE750	281.39	mg/m3	Y	11.50	C15.H23.N.O4
817	**Cyclohexyl isocyanate**	**3173-53-3**	CPN500	125.19	ppm	N	5.12	C7.H11.N.O
818	Cyclohexyl methyl phosphonic acid	1932-60-1	N.I.S. etc.	178.17	mg/m3	N	7.28	C7.H15.O3.P
819	**Cyclohexylamine**	**108-91-8**	CPF500	99.20	ppm	Y	4.05	C6.H13.N
820	Cyclohexylamino)-1-propanesulfonic acid, 3-(; (CAPS)	1135-40-6	N.I.S.	221.35	mg/m3	N	9.05	C9.H19.N.O3.S
821	Cyclohexylethanol, 2-	4442-79-9	CPL250	128.24	mg/m3	N	5.24	C8.H16.O
822	Cyclooctadiene, 1,5-	111-78-4	N.I.S.	108.20	ppm	N	4.42	C8.H12
823	Cyclooctane	292-64-8	N.I.S. etc.	112.21	ppm	Y	4.59	C8.H16
824	Cyclooctatetraene, 1,3,5,7-	629-20-9	CPS500	104.15	ppm	N	4.26	C8.H8
825	Cyclooctene, cis-	931-87-3	N.I.S.	110.20	mg/m3	N	4.50	C8.H14

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
812	Cyclohexanedimethanol, cis and trans, 1,4-	105-08-8	S	41-61	274			1.0381	2	
813	Cyclohexanol	108-93-0	L	24	161.5	1	21	0.9449 @ 25C	3	20000
814	Cyclohexanone; (Ketohexamethylene)	108-94-1	L	-45	155	10	38.7	0.9478	3	11000
815	Cyclohexene	110-83-8	L	-103.7	83	67	20	0.8102	3	12000
816	Cycloheximide	66-81-9	S	119-121		0.006	25		3	
817	**Cyclohexyl isocyanate**	**3173-53-3**	S	168-170					3	
818	Cyclohexyl methyl phosphonic acid	1932-60-1	S	41.2-43.8						
819	**Cyclohexylamine**	**108-91-8**	L	-17.7	134.5			0.865	3	15000
820	Cyclohexylamino)-1-propanesulfonic acid, 3-(; (CAPS)	1135-40-6	S	300						
821	Cyclohexylethanol, 2-	4442-79-9	L	87	208			0.9229 @ 20C	2	
822	Cyclooctadiene, 1,5-	111-78-4	L	-69	150.8			0.8818		10000
823	Cyclooctane	292-64-8	L	15	151			0.836		
824	Cyclooctatetraene, 1,3,5,7-	629-20-9	??	-7	142-143	7.9	25	0.925	3	
825	Cyclooctene, cis-	931-87-3	L	-12	142			0.8472@ 20C		

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
812	Cyclohexanedimethanol, cis and trans, 1,4-	105-08-8			10/15/06		1
813	Cyclohexanol	108-93-0			10/15/06		1
814	Cyclohexanone; (Ketohexamethylene)	108-94-1	09/30/97	02/25/08	02/25/08	GOEV, RTECS, NIOSH.	1
815	Cyclohexene	110-83-8	01/04/99		10/15/06		1
816	Cycloheximide	66-81-9			10/15/06		NA
817	**Cyclohexyl isocyanate**	**3173-53-3**	01/02/08	07/18/08	01/02/08	EPA	
818	Cyclohexyl methyl phosphonic acid	1932-60-1			10/15/06		NA
819	**Cyclohexylamine**	**108-91-8**	07/09/97	02/01/08	08/14/07	EPA	3
820	Cyclohexylamino)-1-propanesulfonic acid, 3-(; (CAPS)	1135-40-6			04/20/07		NA
821	Cyclohexylethanol, 2-	4442-79-9			10/15/06		NA
822	Cyclooctadiene, 1,5-	111-78-4			10/15/06		2
823	Cyclooctane	292-64-8			04/20/07		NA
824	Cyclooctatetraene, 1,3,5,7-	629-20-9			10/15/06		NA
825	Cyclooctene, cis-	931-87-3			10/15/06		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
826	Cyclopentane	287-92-3	CPV750	70.15	ppm	N	2.87	C5.H10
827	Cyclopentanone	120-92-3	CPW500	84.13	ppm	Y	3.44	C3.H8.O
828	Cyclopropane	75-19-4	CQD750	42.09	ppm	N	1.72	C3.H6
829	Cyclotetramethylene tetranitramine; (HMX)	2691-41-0	CQH250	296.20	mg/m3	Y	12.11	C4.H8.N8.O8
830	Cyclotol; (RDX-TNT mixture)	8065-53-0	N.I.S.	449.30	mg/m3	Y	18.36	C7.H5.N3.O6..C3.H6.N6.O6
831	Cyclotrimethylenetrinitramine; (RDX or Cyclonite)	121-82-4	CPR800	222.15	mg/m3	Y	9.08	C3.H6.N6.O6
832	Cytidine monophosphate; (Cytidine 5-monophosphate free acid)	63-37-6	CQL300	323.23	mg/m3	N	13.21	C9.H14.N3.O8.P
833	Dawsonite; (Crystalline dehydroxy sodium aluminum, carbonate)	12011-76-6	DAC450	144.00	mg/m3	N	5.89	Na.Al.C.O3..(O.H)2
834	DDD; (1,1-bis(4-Chlorophenyl)-2,2-dichloroethane)	72-54-8	BIM500	320.04	mg/m3	N	13.08	C14.H10.Cl4
835	DDE; (2,2-bis(p-Chlorophenyl)-1,1-dichloroethylene)	72-55-9	BIM750	318.02	mg/m3	N	13.00	C14.H8.Cl4
836	DDT; (Dichlorodiphenyltrichloroethane)	50-29-3	DAD200	354.48	mg/m3	Y	14.49	C14.H9.Cl5
837	DEAE Sepharose CL-6B	57407-08-6	N.I.S. etc.		mg/m3	N		(Unknown)
838	Decaborane	17702-41-9	DAE400	122.24	mg/m3	Y	5.00	B10.H14
839	Decafluoropentane, 1,1,1,2,3,4,4,5,5,5-	138495-42-8	DLY900	252.07	ppm	Y	10.30	C5.H2.F10

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
826	Cyclopentane	287-92-3	L	-93.7	49.3	317.8	25	0.7457 @ 20C	3	11000
827	Cyclopentanone	120-92-3	L	-58.2	130.6			0.9509 @ 18C	3	
828	Cyclopropane	75-19-4	G	-126.6	-33.5	5410	25	1.879 @ 0C	3	24000
829	Cyclotetramethylene tetranitramine; (HMX)	2691-41-0	S	279	expl @ 279				3	
830	Cyclotol; (RDX-TNT mixture)	8065-53-0	S							
831	Cyclotrimethylenetrinitramine; (RDX or Cyclonite)	121-82-4	S	202	expl	0.0004	110	1.82	3	
832	Cytidine monophosphate; (Cytidine 5-monophosphate free acid)	63-37-6	S	233 dec					D	
833	Dawsonite; (Crystalline dehydroxy sodium aluminum, carbonate)	12011-76-6	S						3	
834	DDD; (1,1-bis(4-Chlorophenyl)-2,2-dichloroethane)	72-54-8	S	110					3	
835	DDE; (2,2-bis(p-Chlorophenyl)-1,1-dichloroethylene)	72-55-9	S	89		6.00E-06	25		3	
836	DDT; (Dichlorodiphenyltrichloroethane)	50-29-3	S	108.5					3	
837	DEAE Sepharose CL-6B	57407-08-6	S					0.994		
838	Decaborane	17702-41-9	S	99.6	213	0.05	25	0.94	3	
839	Decafluoropentane, 1,1,1,2,3,4,4,5,5,5-	138495-42-8	L		55	226	25	1.58	1	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
826	Cyclopentane	287-92-3			10/15/06		1
827	Cyclopentanone	120-92-3			04/20/07		2
828	Cyclopropane	75-19-4			10/15/06		1
829	Cyclotetramethylene tetranitramine; (HMX)	2691-41-0			10/15/06		NA
830	Cyclotol; (RDX-TNT mixture)	8065-53-0			10/15/06		
831	Cyclotrimethylenetrinitramine; (RDX or Cyclonite)	121-82-4	03/01/00		10/15/06		NA
832	Cytidine monophosphate; (Cytidine 5-monophosphate free acid)	63-37-6			10/15/06		NA
833	Dawsonite; (Crystalline dehydroxy sodium aluminum, carbonate)	12011-76-6			10/15/06		NA
834	DDD; (1,1-bis(4-Chlorophenyl)-2,2-dichloroethane)	72-54-8	08/21/96		10/15/06		NA
835	DDE; (2,2-bis(p-Chlorophenyl)-1,1-dichloroethylene)	72-55-9	08/21/96		10/15/06		NA
836	DDT; (Dichlorodiphenyltrichloroethane)	50-29-3	08/21/96		10/15/06		NA
837	DEAE Sepharose CL-6B	57407-08-6			08/24/07	GOEV.	
838	Decaborane	17702-41-9			10/15/06		3
839	Decafluoropentane, 1,1,1,2,3,4,4,5,5,5-	138495-42-8			10/15/06		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
840	Decahydronaphthalene	91-17-8	DAE800	138.25	ppm	Y	5.65	C10.H18
841	Decahydronaphthalene, cis-; (cis-Decalin)	493-01-6	N.I.S.	138.24	ppm	Y	5.65	C10.H18
842	Decahydronaphthalene, trans-; (trans-Decalin)	493-02-7	DAE800	138.28	ppm	Y	5.65	C10.H18
843	Decamethylcyclopentasiloxane	541-02-6	DAF350	370.85	mg/m3	N	15.16	R2.Si.O2
844	Decanal	112-31-2	DAG000 DAG200	156.30	ppm	Y	6.39	C10.H20.O
845	Decane	124-18-5	DAG400	142.29	ppm	N	5.82	C10.H22
846	Decene, 1-, homopolymer, hydrogenated	68037-01-4	N.I.S.		mg/m3	N		(Unknown)
847	Decyl alcohol; (1-Decanol)	112-30-1	DAI600	158.32	mg/m3	Y	6.47	C10.H22.O
848	Demeton	8065-48-3	DAO600	516.72	mg/m3	N	21.12	(C8.H19.O3.P.S2)2
849	Demeton-s-methyl	919-86-8	DAP400	230.30	mg/m3	N	9.41	C6.H15.O3.P.S2
850	Deoxyribonucleac acid; (DNA)	9007-49-2	DAZ000	523.37	mg/m3	N	21.39	C15.H31.N3.O13.P2
851	Deuterium	7782-39-0	DBB800	4.03	ppm	N	0.16	D2
852	Deuterium oxide; (Heavy water)	7789-20-0	HAK000	20.02	ppm	N	0.82	D2.O
853	Deuterochloric acid; (Deuterium chloride)	7698-05-7	N.I.S. etc.	37.47	ppm	Y	1.53	D.Cl

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
840	Decahydronaphthalene	91-17-8	L	-43	155.5	2.3	25	0.8965 @ 22C	3	7000
841	Decahydronaphthalene, cis-; (cis-Decalin)	493-01-6	L	-43.3	195.6	2.3	25	0.8963 @ 20C	3	
842	Decahydronaphthalene, trans-; (trans-Decalin)	493-02-7	L	-30.7	187.3	10	47.2	0.8963 @ 20C	3	7000
843	Decamethylcyclopentasiloxane	541-02-6	L						1	
844	Decanal	112-31-2	L	-5	208.5	0.103	25	0.830 @ 15C	2	8000
845	Decane	124-18-5	L	-30	174	1	16.5	0.73	2	7000
846	Decene, 1-, homopolymer, hydrogenated	68037-01-4	L	-65	375-->	<1	20	0.82	1	
847	Decyl alcohol; (1-Decanol)	112-30-1	L	7	232.9	1	69.5	0.8297 @ 20C	2	9000
848	Demeton	8065-48-3	L		134 @ 2 mm			1.1183 @ 20C	3	10000
849	Demeton-s-methyl	919-86-8	L		89 @ 0.15mm	0.0003	20	1.21 @ 20C	3	
850	Deoxyribonucleac acid; (DNA)	9007-49-2	S						1	
851	Deuterium	7782-39-0	G	-254.43	-249.49			0.169 @ -253C	3	50000
852	Deuterium oxide; (Heavy water)	7789-20-0	L	3.81	101.42			1.1044	D	50000
853	Deuterochloric acid; (Deuterium chloride)	7698-05-7	G	-114	-85				2	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
840	Decahydronaphthalene	91-17-8			10/15/06		2
841	Decahydronaphthalene, cis-; (cis-Decalin)	493-01-6			10/15/06		NA
842	Decahydronaphthalene, trans-; (trans-Decalin)	493-02-7			10/15/06		1
843	Decamethylcyclopentasiloxane	541-02-6	07/09/97		10/15/06		NA
844	Decanal	112-31-2			10/15/06		NA
845	Decane	124-18-5	01/04/99		10/15/06		1
846	Decene, 1-, homopolymer, hydrogenated	68037-01-4			10/15/06		NA
847	Decyl alcohol; (1-Decanol)	112-30-1			10/15/06		2
848	Demeton	8065-48-3			10/15/06		NA
849	Demeton-s-methyl	919-86-8			10/15/06		NA
850	Deoxyribonucleac acid; (DNA)	9007-49-2			04/20/07		NA
851	Deuterium	7782-39-0			10/15/06		0
852	Deuterium oxide; (Heavy water)	7789-20-0	11/15/96		10/15/06		NA
853	Deuterochloric acid; (Deuterium chloride)	7698-05-7			04/20/07		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
854	Dextran	9004-54-0	DBD700	200000	mg/m3	N	8174.28	[Unknown]
855	Dextran sulfate sodium	9011-18-1	DED750		mg/m3	N		H2.O4.S..x Na
856	Di(ethylene glycol) diacrylate	4074-88-8	ADT250	214.24	mg/m3	Y	8.76	C10.H14.O5
857	Di-2-ethylhexyl adipate	103-23-1	AEO000	370.64	mg/m3	Y	15.15	C22.H42.O4
858	Diacetoxydibutyl stannane	1067-33-0	DBF800	351.05	mg/m3	N	14.35	C12.H24.O4.Sn
859	Diacetyl peroxide; (Acetyl peroxide)	110-22-5	ACV500	118.04	mg/m3	Y	4.82	C.H3.C.O..O.O.C.O..C.H3
860	Dialifor	10311-84-9	DBI099	393.86	mg/m3	N	16.10	C14.H17.N.O4.P.S2
861	Diallyl phthalate	131-17-9	DBL200	246.28	mg/m3	Y	10.07	C14.H14.O
862	Diallyldimethylammonium chloride	7398-69-8	N.I.S.	161.70	mg/m3	N	6.61	C8.H16.N..Cl
863	Diallyldimethylammonium chloride polymer	26062-79-3	DTS500		mg/m3	N		(C8.H16.N.Cl)x
864	Diaminodiphenyl ether, 4,4'-; (4,4'-Oxydianiline)	101-80-4	OPM000	200.26	mg/m3	N	8.18	C12.H12.N2.O
865	Diaminodiphenylsulfone; (4,4'-Sulfonyldianiline)	80-08-0	SOA500	248.32	mg/m3	N	10.15	C12.H12.N2.O2.S
866	Diaminodipropylamine, 3,3-; (Aminobis(propylamine))	56-18-8	AIX250	131.26	ppm	Y	5.36	C6.H17.N3
867	Diaminopyridine, 2,6-	141-86-6	DCC800	109.15	mg/m3	N	4.46	C5.H7.N3

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
854	Dextran	9004-54-0	S						2	
855	Dextran sulfate sodium	9011-18-1	S						2	
856	Di(ethylene glycol) diacrylate	4074-88-8	L		200			1.118	2	
857	Di-2-ethylhexyl adipate	103-23-1	L		181-5 @ 2 mm	2.6	200	0.9268	2	1000
858	Diacetoxydibutyl stannane	1067-33-0	L	10	130	1.3	20	1.31	3	
859	Diacetyl peroxide; (Acetyl peroxide)	110-22-5	S	30	63 @ 21 C			1.18	3	
860	Dialifor	10311-84-9	S	67-69		6.2E-08	20-25		3	
861	Diallyl phthalate	131-17-9	L	-70	157	2.4	150	1.120 @ 20C	3	
862	Diallyldimethylammonium chloride	7398-69-8	S	140				1.036	2	
863	Diallyldimethylammonium chloride polymer	26062-79-3	S						2	
864	Diaminodiphenyl ether, 4,4'-; (4,4'-Oxydianiline)	101-80-4	S	187	>300	3E-07	25		3	
865	Diaminodiphenylsulfone; (4,4'-Sulfonyldianiline)	80-08-0	L	176					3	
866	Diaminodipropylamine, 3,3-; (Aminobis(propylamine))	56-18-8	L	-14.5	235			0.938	3	
867	Diaminopyridine, 2,6-	141-86-6	S	121.5	285				3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
854	Dextran	9004-54-0			10/15/06		NA
855	Dextran sulfate sodium	9011-18-1			10/15/06		NA
856	Di(ethylene glycol) diacrylate	4074-88-8			04/20/07		NA
857	Di-2-ethylhexyl adipate	103-23-1	09/30/97		10/15/06		1
858	Diacetoxydibutyl stannane	1067-33-0			10/15/06		NA
859	Diacetyl peroxide; (Acetyl peroxide)	110-22-5			10/15/06		3
860	Dialifor	10311-84-9			10/15/06		NA
861	Diallyl phthalate	131-17-9			10/15/06		1
862	Diallyldimethylammonium chloride	7398-69-8			04/20/07		NA
863	Diallyldimethylammonium chloride polymer	26062-79-3			10/15/06		NA
864	Diaminodiphenyl ether, 4,4'-; (4,4'-Oxydianiline)	101-80-4			10/15/06		NA
865	Diaminodiphenylsulfone; (4,4'-Sulfonyldianiline)	80-08-0			10/15/06		NA
866	Diaminodipropylamine, 3,3-; (Aminobis(propylamine))	56-18-8			10/15/06		NA
867	Diaminopyridine, 2,6-	141-86-6			04/20/07		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
868	Diammonium molybdate	27546-07-2	N.I.S.	337.91	mg/m3	N	13.81	H4.Mo2.N.O8
869	Diamond	7782-40-3	N.I.S.	12.01	mg/m3	N	0.49	C
870	Dianisidine dihydrochloride, o-; (3,3'-Dimethoxybenzidine dihydrochloride)	20325-40-0	DOA800	317.24	mg/m3	N	12.97	C14.H16.N2.O2..2Cl.H
871	Diatomaceous earth (flux calcinated; Filter agent, celite)	68855-54-9	N.I.S.	60.10	mg/m3	N	2.46	Si.O2
872	Diatomaceous earth; (Silica-amorphous diatomaceous earth (uncalcined))	61790-53-2	DCJ800		mg/m3	N		
873	Diatomaceous silica, calcined	91053-39-3	N.I.S.		mg/m3	N		
874	Diazabicyclo(2,2,2)octane, 1,4-	280-57-9	DCK400	112.20	mg/m3	Y	4.59	C6.H12.N2
875	Diazabicyclo(5.4.0)undec-7-ene, 1,8-	6674-22-2	N.I.S.	152.24	mg/m3	N	6.22	C9.H16.N2
876	Diazoacetic acid; (Ethyl diazoacetate)	623-73-4	DCN800	114.12	mg/m3	N	4.66	C4.H6.N2.O2
877	Diazomethane	334-88-3	DCP800	42.05	ppm	N	1.72	C.H2.N2
878	Dibenza(a,h)anthracene	53-70-3	DCT400	278.36	mg/m3	N	11.38	C22.H14
879	Dibenzo(a,e)pyrene; (Naphtho(1,2,3,4-def)chrysene)	192-65-4	NAT500	302.38	mg/m3	N	12.36	C24.H14
880	Dibenzofuran	132-64-9	DDB500	168.20	mg/m3	N	6.87	C12.H8.O
881	Dibenzo-p-dioxin	262-12-4	DDA800	184.20	mg/m3	N	7.53	C12.H8.O2

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
868	Diammonium molybdate	27546-07-2	S							
869	Diamond	7782-40-3	S	4440 @ 12.4 Gpa				3.513		
870	Dianisidine dihydrochloride, o-; (3,3'-Dimethoxybenzidine dihydrochloride)	20325-40-0	S	137		8.8E-09	25		3	
871	Diatomaceous earth (flux calcinated; Filter agent, celite)	68855-54-9	S	1083	2595			2.2	1	
872	Diatomaceous earth; (Silica-amorphous diatomaceous earth (uncalcined))	61790-53-2	S	1700	2230			1.9 - 2.35	1	
873	Diatomaceous silica, calcined	91053-39-3								
874	Diazabicyclo(2,2,2)octane, 1,4-	280-57-9	S hygr.	158	174				2	
875	Diazabicyclo(5.4.0)undec-7-ene, 1,8-	6674-22-2	L	-70	80-83 @ 0.6 mm	5.3	37.7	1.018	3	11000
876	Diazoacetic acid; (Ethyl diazoacetate)	623-73-4	L	-22	141 @ 720 mm			1.085	3	
877	Diazomethane	334-88-3	G	-145	-23	> 760		1.45	3	
878	Dibenza(a,h)anthracene	53-70-3	S	266-->					3	
879	Dibenzo(a,e)pyrene; (Naphtho(1,2,3,4-def)chrysene)	192-65-4	S	225					3	
880	Dibenzofuran	132-64-9	S	86.5	287	0.0044	25	1.0866 @ 99C	D	
881	Dibenzo-p-dioxin	262-12-4	S	119		4.1E-4	25		3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
868	Diammonium molybdate	27546-07-2			04/20/07		NA
869	Diamond	7782-40-3			10/15/06		NA
870	Dianisidine dihydrochloride, o-; (3,3'-Dimethoxybenzidine dihydrochloride)	20325-40-0			10/15/06		NA
871	Diatomaceous earth (flux calcinated; Filter agent, celite)	68855-54-9		06/25/08	08/24/07	GOEV, NIOSH.	
872	Diatomaceous earth; (Silica-amorphous diatomaceous earth (uncalcined))	61790-53-2		06/25/08	05/19/07	GOEV 2007, NIOSH.	NA
873	Diatomaceous silica, calcined	91053-39-3			10/15/06		NA
874	Diazabicyclo(2,2,2)octane, 1,4-	280-57-9			10/15/06		NA
875	Diazabicyclo(5.4.0)undec-7-ene, 1,8-	6674-22-2			04/20/07		NA
876	Diazoacetic acid; (Ethyl diazoacetate)	623-73-4			04/20/07		NA
877	Diazomethane	334-88-3	09/30/97		10/15/06		NA
878	Dibenza(a,h)anthracene	53-70-3	08/21/96		10/15/06		NA
879	Dibenzo(a,e)pyrene; (Naphtho(1,2,3,4-def)chrysene)	192-65-4			10/15/06		NA
880	Dibenzofuran	132-64-9			10/15/06		NA
881	Dibenzo-p-dioxin	262-12-4			10/15/06		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
882	**Diborane**	**19287-45-7**	DDI450	27.68	ppm	Y	1.13	B2.H6
883	Dibromo-3-chloropropane, 1,2-; (DBCP)	96-12-8	DDL800	236.35	ppm	Y	9.66	C3.H5.Br2.Cl
884	Dibromo-4-nitrophenol, 2,6-	99-28-5	DDQ500	296.92	ppm	N	12.14	C6-H3-Br2-N-O3
885	Dibromochloromethane; (Chlorodibromomethane)	124-48-1	CFK500	208.29	mg/m3	N	8.51	C.H.Br.Cl
886	Dibromohexane, 1,6-	629-03-8	DDO800	244.00	mg/m3	N	9.97	C6.H12.Br
887	Dibromomethane; (Methylene dibromide)	74-95-3	DDP800	173.85	ppm	N	7.11	C.H2.Br2
888	Dibromophenol, 2,6-	608-33-3	N.I.S.	251.91	mg/m3	N	10.30	C6-H4-Br2-O
889	Dibromopropane, 1,3-	109-64-8	TLR000	201.91	mg/m3	Y	8.25	C3.H6.Br2
890	Dibromotetrafluoroethane; (Halon 2402)	124-73-2	FOO525	259.84	ppm	N	10.62	C2.Br2.F4
891	Dibutyl (2-ethylhexyl)phosphate	z-0011	N.I.S. etc.	322.43	ppm	N	13.18	[Unknown]
892	Dibutyl butylphosphonate	78-46-6	DDV800	250.36	ppm	Y	10.23	C12.H27.O3.P
893	Dibutyl peroxide, tert-	110-05-4	BSC750	146.26	ppm	Y	5.98	C8.H18.O2
894	Dibutyl phosphate	107-66-4	DEG700	210.20	ppm	N	8.59	C8.H19.P.O4
895	Dibutyl phosphite	1809-19-4	DEG800	194.24	mg/m3	Y	7.94	C8.H19.O3.P

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
882	**Diborane**	**19287-45-7**	G	-165	-92.8	>760		0.477 liq	3	8000
883	Dibromo-3-chloropropane, 1,2-; (DBCP)	96-12-8	L	6.7	196			2.05	3	
884	Dibromo-4-nitrophenol, 2,6-	99-28-5	L						3	
885	Dibromochloromethane; (Chlorodibromomethane)	124-48-1	L	-22	116			2.38	2	
886	Dibromohexane, 1,6-	629-03-8	L	-1.2	245.5			1.6025	3	
887	Dibromomethane; (Methylene dibromide)	74-95-3	L	-52.7	95.6 - 96.4	44.4	25	2.485	3	
888	Dibromophenol, 2,6-	608-33-3								
889	Dibromopropane, 1,3-	109-64-8	L	-36	166.5			1.977	2	
890	Dibromotetrafluoroethane; (Halon 2402)	124-73-2	L	-112	47.3			2.18 @ 21.1C	1	
891	Dibutyl (2-ethylhexyl)phosphate	z-0011								
892	Dibutyl butylphosphonate	78-46-6	L		160-162			0.948 @ 20C	3	
893	Dibutyl peroxide, tert-	110-05-4	L	-40	111	25.1	25	0.791 @ 25C	3	450000
894	Dibutyl phosphate	107-66-4	L		135-8 @ 0.05mm				2	
895	Dibutyl phosphite	1809-19-4	L		95 @1 mm	1	95	0.986	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
882	**Diborane**	**19287-45-7**	08/21/96	07/19/08	10/15/06	GOEV, EPA.	4
883	Dibromo-3-chloropropane, 1,2-; (DBCP)	96-12-8	09/30/97		10/15/06		NA
884	Dibromo-4-nitrophenol, 2,6-	99-28-5			10/15/06		NA
885	Dibromochloromethane; (Chlorodibromomethane)	124-48-1	09/30/97		10/15/06		NA
886	Dibromohexane, 1,6-	629-03-8			04/20/07		NA
887	Dibromomethane; (Methylene dibromide)	74-95-3	01/04/99		08/23/07	RTECS.	NA
888	Dibromophenol, 2,6-	608-33-3			10/15/06		NA
889	Dibromopropane, 1,3-	109-64-8	01/04/99		10/15/06		NA
890	Dibromotetrafluoroethane; (Halon 2402)	124-73-2			10/15/06		NA
891	Dibutyl (2-ethylhexyl)phosphate	z-0011			10/15/06		
892	Dibutyl butylphosphonate	78-46-6			10/15/06		NA
893	Dibutyl peroxide, tert-	110-05-4			10/15/06		3
894	Dibutyl phosphate	107-66-4	08/07/98		10/15/06		3
895	Dibutyl phosphite	1809-19-4			10/15/06		3

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
896	Dibutyl phthalate	84-74-2	DEH200	278.38	mg/m3	N	11.38	C6.H4.(C.O.C4.H9)2
897	Dibutylboron triflate; (Dibutylboryl trifluoromethanesulfonate)	60669-69-4	N.I.S. etc	274.11	mg/m3	N	11.20	C.F3.S.O3.B.[(C.H3)C.H3]2
898	Dibutylhexamethylenediamine, N,N'-	4835-11-4	DEC699	228.48	mg/m3	N	9.34	C14.H32.N2
899	Dichloran; (2,6-Dichloro-4-nitroaniline; Resisan)	99-30-9	RDP300	207.02	mg/m3	N	8.46	C6.H4.Cl2.N2.O2
900	Dichloro(4,4-dimethylzinc - 5((((methylamino)carbonyl) oxy)-imino)pentanenitrile), (trans-4)-; (Ethienocarb)	58270-08-9	DFE469	333.54	mg/m3	N	13.63	C9.H15.Cl2.N3.O2..Zn
901	**Dichloro-1,1,1-trifluoroethane, 2,2-; (HCFC-123)**	**306-83-2**	TJY500	152.93	ppm	N	6.25	C2.H.Cl2.F3
902	**Dichloro-1-fluoroethane, 1,1-; (HCFC-141b; Freon 141)**	**1717-00-6**	FOO550	116.95	ppm	N	4.78	C2.H3.Cl2.F
903	Dichloro-2-butene 1,4-	764-41-0	DEV000	125.00	ppm	N	5.11	C4.H6.Cl2
904	Dichloro-2-propanol, 1,3-	96-23-1	DGG400	128.99	ppm	N	5.27	C3.H6.Cl2.O
905	Dichloro-2-trifluoromethylbenzimidazole, 4,5-; (Chloroflurazole)	3615-21-2	DGO400	255.03	mg/m3	N	10.42	C8.H3.Cl2.F3.N2
906	Dichloroacetic acid	79-43-6	DEL000	128.95	ppm	Y	5.27	C2.Cl2.H2.O2
907	**Dichloroacetyl chloride**	**79-36-7**	DEN400	147.38	ppm	Y	6.02	C2.H.Cl3.O
908	Dichloroacetylene	7572-29-4	DEN600	94.92	ppm	Y	3.88	C2.Cl2

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
896	Dibutyl phthalate	84-74-2	L	-35	340	<0.01		1.047 - 1.048	3	5000
897	Dibutylboron triflate; (Dibutylboryl trifluoromethanesulfonate)	60669-69-4	S	4.44				0.815		
898	Dibutylhexamethylenediamine, N,N'-	4835-11-4	L		205	0.0004	25		3	
899	Dichloran; (2,6-Dichloro-4-nitroaniline; Resisan)	99-30-9	S	191					3	
900	Dichloro(4,4-dimethylzinc - 5((((methylamino)carbonyl) oxy)-imino)pentanenitrile), (trans-4)-; (Ethienocarb)	58270-08-9	S	120-125		0.00001	25		3	
901	**Dichloro-1,1,1-trifluoroethane, 2,2-; (HCFC-123)**	**306-83-2**	L	-107	27.82	718	25	1.4638	3	
902	**Dichloro-1-fluoroethane, 1,1-; (HCFC-141b; Freon 141)**	**1717-00-6**	G/L	-103.5	32	412	25		1	76000
903	Dichloro-2-butene 1,4-	764-41-0	L	1 to 3	156			1.183	3	15000
904	Dichloro-2-propanol, 1,3-	96-23-1	L	-4	174	1	28	1.367 @ 20C	3	
905	Dichloro-2-trifluoromethylbenzimidazole, 4,5-; (Chloroflurazole)	3615-21-2	S	212-214		0.00004	22.5	3.49	3	
906	Dichloroacetic acid	79-43-6	L	10	194	1	44	1.5634 @ 20C	2	119000
907	**Dichloroacetyl chloride**	**79-36-7**	L		108			15315@ 16C	2	
908	Dichloroacetylene	7572-29-4	L	-65	33			1.26	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
896	Dibutyl phthalate	84-74-2	08/21/96		10/15/06		2
897	Dibutylboron triflate; (Dibutylboryl trifluoromethanesulfonate)	60669-69-4			04/20/07		NA
898	Dibutylhexamethylenediamine, N,N'-	4835-11-4			10/15/06		NA
899	Dichloran; (2,6-Dichloro-4-nitroaniline; Resisan)	99-30-9			10/15/06		NA
900	Dichloro(4,4-dimethylzinc - 5((((methylamino)carbonyl) oxy)-imino)pentanenitrile), (trans-4)-; (Ethienocarb)	58270-08-9			10/15/06		NA
901	**Dichloro-1,1,1-trifluoroethane, 2,2-; (HCFC-123)**	**306-83-2**			08/14/07	AIHA.	NA
902	**Dichloro-1-fluoroethane, 1,1-; (HCFC-141b; Freon 141)**	**1717-00-6**		07/18/08	10/15/06	AIHA, EPA.	NA
903	Dichloro-2-butene 1,4-	764-41-0	08/21/96		10/15/06		NA
904	Dichloro-2-propanol, 1,3-	96-23-1			10/15/06		3
905	Dichloro-2-trifluoromethylbenzimidazole, 4,5-; (Chloroflurazole)	3615-21-2			10/15/06		NA
906	Dichloroacetic acid	79-43-6			10/15/06		NA
907	**Dichloroacetyl chloride**	**79-36-7**		02/01/08	08/14/07	EPA.	3
908	Dichloroacetylene	7572-29-4			10/15/06		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
909	Dichloroamine; (Chlorimide)	3400-09-7	N.I.S.	85.92	ppm	N	3.51	Cl2.H.N
910	Dichlorobenzene, m-	541-73-1	DEP599	147.00	ppm	N	6.01	C6.H4.Cl2
911	Dichlorobenzene, o-	95-50-1	DEP600	147.00	ppm	Y	6.01	C6.H4.Cl2
912	Dichlorobenzene, p-	106-46-7	DEP800	147.00	ppm	Y	6.01	C6.H4.Cl2
913	Dichlorobenzidene 3,3'-	91-94-1	DEQ600	253.14	ppm	Y	10.35	C12.H10.Cl2.N2
914	Dichlorocyclohexane, 1,1-	2108-92-1	N.I.S. etc.	153.05	ppm	N	6.26	C6.H10.Cl2
915	Dichlorocyclohexane, trans-1,2-	822-86-6	N.I.S.	153.05	mg/m3	N	6.26	C6.H10.Cl2
916	Dichlorodifluoromethane; (Freon 12, CFC 12)	75-71-8	DFA600	120.91	ppm	N	4.94	C.Cl2.F2
917	Dichloroethanol acetate, 1,2-	10140-87-1	DFG159	157.00	ppm	N	6.42	C4.H6.Cl2.O2
918	Dichloroethyl ether; (1,1'-Oxybis(2-chloro)ethane)	111-44-4	DFJ050	143.02	ppm	Y	5.85	C4.H8.Cl2.O
919	Dichloroethylaluminum	563-43-9	EFU050	126.95	mg/m3	Y	5.19	C2.H5.Al.Cl2
920	Dichloroethylbenzene; (Ethyldichlorobenzene)	1331-29-9	EHY500	175.06	mg/m3	N	7.15	C8.H.8.Cl2
921	Dichloroethylene, 1,2-	540-59-0	DFI210	96.94	ppm	N	3.96	Cl.C.H..C.H.Cl
922	**Dichloroethylene, cis-1,2-**	**156-59-2**	DFI200	96.94	ppm	Y	3.96	H.C.Cl..C.H.Cl

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
909	Dichloroamine; (Chlorimide)	3400-09-7	L					1.2	2	
910	Dichlorobenzene, m-	541-73-1	L	-24	172			1.288	2	20200
911	Dichlorobenzene, o-	95-50-1	L	-17.2	180.6	1	20	1.307	3	20000
912	Dichlorobenzene, p-	106-46-7	S	53.3	173.9	0.4	25	1.4581	3	25000
913	Dichlorobenzidene 3,3'-	91-94-1	S	133					3	
914	Dichlorocyclohexane, 1,1-	2108-92-1								
915	Dichlorocyclohexane, trans-1,2-	822-86-6	L						3	
916	Dichlorodifluoromethane; (Freon 12, CFC 12)	75-71-8	G	-157.8	-30	>760			1	
917	Dichloroethanol acetate, 1,2-	10140-87-1	L	<-32	79-79.5 @ 33 mm			1.296 @ 20C	3	
918	Dichloroethyl ether; (1,1'-Oxybis(2-chloro)ethane)	111-44-4	L	-51.9	178.5	0.7	20	1.222	3	27000
919	Dichloroethylaluminum	563-43-9	S fuming	32	194			1.222	1	
920	Dichloroethylbenzene; (Ethyldichlorobenzene)	1331-29-9	L	<70	220-224			1.208	2	
921	Dichloroethylene, 1,2-	540-59-0	L	-80	58-60	222		1.282	3	56000
922	**Dichloroethylene, cis-1,2-**	**156-59-2**	L	-80.5	59	400	41	1.291 @ 150C	1	56000

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
909	Dichloroamine; (Chlorimide)	3400-09-7			10/15/06		NA
910	Dichlorobenzene, m-	541-73-1	08/21/96		10/15/06		NA
911	Dichlorobenzene, o-	95-50-1	08/21/96		10/15/06		2
912	Dichlorobenzene, p-	106-46-7	08/21/96	02/22/08	02/22/08	GOEV, RTECS, NIOSH.	2
913	Dichlorobenzidene 3,3'-	91-94-1	08/21/96		10/15/06		NA
914	Dichlorocyclohexane, 1,1-	2108-92-1			10/15/06		NA
915	Dichlorocyclohexane, trans-1,2-	822-86-6	03/01/00		10/15/06		NA
916	Dichlorodifluoromethane; (Freon 12, CFC 12)	75-71-8	10/31/92		10/15/06		NA
917	Dichloroethanol acetate, 1,2-	10140-87-1			10/15/06		NA
918	Dichloroethyl ether; (1,1'-Oxybis(2-chloro)ethane)	111-44-4	08/21/96		10/15/06		2
919	Dichloroethylaluminum	563-43-9			10/15/06		NA
920	Dichloroethylbenzene; (Ethyldichlorobenzene)	1331-29-9	09/30/97		10/15/06		NA
921	Dichloroethylene, 1,2-	540-59-0	08/21/96		10/15/06		1
922	**Dichloroethylene, cis-1,2-**	**156-59-2**	09/30/97	07/18/08	07/18/08	GOEV, EPA.	1

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
923	**Dichloroethylene, cis-and trans-1,2-**	**156-60-5**	ACK000	96.94	ppm	Y	3.96	C2.H2.Cl2
924	Dichlorofluoromethane; (Freon 21, CFC 21)	75-43-4	DFL000	102.92	ppm	N	4.21	C.H.Cl2.F
925	Dichlorohexane, 1,2-	2162-92-7	N.I.S. etc.	155.07	ppm	N	6.34	C6.H12.Cl2
926	Dichloroisopropyl ether	108-60-1	BII250	171.08	ppm	N	6.99	C6.H12.Cl2.O
927	Dichloromethane-d2	1665-00-5	N.I.S., etc.	86.94	ppm	Y	3.55	C.D2.Cl2
928	Dichloromethoxy ethane; (bis(2-Chloroethoxy)methane)	111-91-1	BID750	173.05	ppm	Y	7.07	C5.H10.Cl2.O2
929	**Dichloromethyl ether; (bis(Chloromethyl)ether)**	**542-88-1**	BIK000	114.96	ppm	Y	4.70	C2.H4.Cl2.O
930	Dichloromethylphenylsilane	149-74-6	DFQ800	191.14	mg/m3	Y	7.81	C7.H8.Cl2.Si
931	Dichloromethylphosphine; (Methylphosphonous dichloride)	676-83-5	MOC250	116.91	ppm	Y	4.78	C.H3.Cl2.P
932	Dichlorophene	97-23-4	MJM500	269.13	mg/m3	Y	11.00	C13.H10.Cl2.O2
933	**Dichlorophenol, 2,4-**	**120-83-2**	DFX800	163.00	ppm	Y	6.66	C6.H4.Cl2.O
934	Dichlorophenol, 2,6-	87-65-0	DFY000	163.00	mg/m3	Y	6.66	C6.H4.Cl2.O
935	Dichlorophenoxyacetic acid, 2,4-; (2,4-D)	94-75-7	DAA800	221.04	mg/m3	Y	9.03	Cl2.C6.H3.O.C.H2..C.O.O.H
936	Dichloropropane	26638-19-7	DGF350	112.99	ppm	Y	4.62	C3.H6.Cl2

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
923	**Dichloroethylene, cis-and trans-1,2-**	**156-60-5**	L	-50	48	400		1.2743 @ 30.8C	2	56000
924	Dichlorofluoromethane; (Freon 21, CFC 21)	75-43-4	G	-135	8.9	>760		1.48	1	
925	Dichlorohexane, 1,2-	2162-92-7								
926	Dichloroisopropyl ether	108-60-1	L	>-20	187.8	0.1	20	1.11	3	14190
927	Dichloromethane-d2	1665-00-5	L	-97	40			1.325	2	14000
928	Dichloromethoxy ethane; (bis(2-Chloroethoxy)methane)	111-91-1	L	-32.8	217.5	0.1	20	1.2339 @ 20C	3	
929	**Dichloromethyl ether; (bis(Chloromethyl)ether)**	**542-88-1**	L	-41.5	105			1.315	3	
930	Dichloromethylphenylsilane	149-74-6	L		205			1.18 @ 20C	3	
931	Dichloromethylphosphine; (Methylphosphonous dichloride)	676-83-5	L		80-81 @ 729 mm			1.3	3	
932	Dichlorophene	97-23-4	S	178					3	
933	**Dichlorophenol, 2,4-**	**120-83-2**	S	45	210	1	53	1.383	3	
934	Dichlorophenol, 2,6-	87-65-0	S?						3	
935	Dichlorophenoxyacetic acid, 2,4-; (2,4-D)	94-75-7	S	137.8	dec	low	20	7.63vap	3	
936	Dichloropropane	26638-19-7	L						D	34000

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
923	**Dichloroethylene, cis-and trans-1,2-**	**156-60-5**	09/30/97	07/18/08	07/18/08	GOEV, EPA.	NA
924	Dichlorofluoromethane; (Freon 21, CFC 21)	75-43-4	10/31/92		10/15/06		NA
925	Dichlorohexane, 1,2-	2162-92-7			10/15/06		NA
926	Dichloroisopropyl ether	108-60-1	08/21/96		10/15/06		3
927	Dichloromethane-d2	1665-00-5	04/15/07		04/20/07		NA
928	Dichloromethoxy ethane; (bis(2-Chloroethoxy)methane)	111-91-1			10/15/06		2
929	**Dichloromethyl ether; (bis(Chloromethyl)ether)**	**542-88-1**	08/21/96	07/18/08	01/03/08	GOEV, EPA.	4
930	Dichloromethylphenylsilane	149-74-6			10/15/06		NA
931	Dichloromethylphosphine; (Methylphosphonous dichloride)	676-83-5			10/15/06		NA
932	Dichlorophene	97-23-4	01/04/99		10/15/06		NA
933	**Dichlorophenol, 2,4-**	**120-83-2**	08/21/96		08/14/07	AIHA.	3
934	Dichlorophenol, 2,6-	87-65-0	08/21/96		10/15/06		NA
935	Dichlorophenoxyacetic acid, 2,4-; (2,4-D)	94-75-7	08/21/96		10/15/06		NA
936	Dichloropropane	26638-19-7			10/15/06		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
937	Dichloropropane, 1,1-	78-99-9	DGF400	112.99	ppm	Y	4.62	C3.H6.Cl2
938	Dichloropropane, 1,2-; (Propylene dichloride)	78-87-5	PNJ400	112.99	ppm	Y	4.62	C.H3.C.HCl.C.H2.Cl
939	Dichloropropane, 1,3-	142-28-9	DGF800	112.99	ppm	Y	4.62	C3.H6.Cl2
940	Dichloropropane, 2,2-	594-20-7	DGF900	112.99	ppm	Y	4.62	C3.H6.Cl2
941	Dichloropropene, 1,1-	563-58-6	DGG750	110.97	ppm	N	4.54	C3.H4.Cl2
942	Dichloropropene, 1,2-	563-54-2	DGG800	110.97	ppm	N	4.54	C3.H4.Cl2
943	Dichloropropene, 1,3-	542-75-6	DGG950	110.97	ppm	Y	4.54	C3.H4.Cl2
944	Dichloropropene, 2,3-	78-88-6	DGH400	110.97	ppm	Y	4.54	C3.H4.Cl2
945	Dichloropropene, cis-1,2-; (1,2-dichloro-1-propene, (Z)-)	6923-20-2	N.I.S.	110.97	ppm	N	4.54	C3.H4.Cl2
946	Dichloropropene, cis-1,3-	10061-01-5	DGH200	110.97	ppm	Y	4.54	C3.H4.Cl2
947	Dichloropropene, trans-1,3-	10061-02-6	DGH225	110.97	ppm	Y	4.54	C3.H4.Cl2
948	**Dichlorosilane**	**4109-96-0**	DGK300	101.01	ppm	N	4.13	Cl.H2.Si
949	Dichlorotetrafluoroethane	1320-37-2	DGL600	170.92	ppm	N	6.99	C2.Cl2.F4
950	Dichlorotetrafluoroethane, 1,2-; (Freon 114, CFC 114)	76-14-2	FOO509	170.92	ppm	N	6.99	C.F4.C.Cl2

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
937	Dichloropropane, 1,1-	78-99-9	L		88.3	65.9	25	1.1321 @ 20C	3	31000
938	Dichloropropane, 1,2-; (Propylene dichloride)	78-87-5	L	-100.6	96.7	40	20	1.1593	3	34000
939	Dichloropropane, 1,3-	142-28-9	L		120.4			1.20115	2	34000
940	Dichloropropane, 2,2-	594-20-7	L		70.5			1.096	3	29330
941	Dichloropropene, 1,1-	563-58-6	L		76.5			1.1864	D	
942	Dichloropropene, 1,2-	563-54-2	L		75			3.83 vapor	2	33850
943	Dichloropropene, 1,3-	542-75-6	L		103-110			1.22	3	53000
944	Dichloropropene, 2,3-	78-88-6	L		94	53	25	1.211 @ 20C	3	26000
945	Dichloropropene, cis-1,2-; (1,2-dichloro-1-propene, (Z)-)	6923-20-2	L		93			3.83 vapor	2	33850
946	Dichloropropene, cis-1,3-	10061-01-5	I		104.3			1.22	3	50000
947	Dichloropropene, trans-1,3-	10061-02-6	L		112	2.47	20	1.217 @ 20C	3	50000
948	**Dichlorosilane**	**4109-96-0**	G	-122	8.3				3	41000
949	Dichlorotetrafluoroethane	1320-37-2	G	-94	4.1			1.5312	1	
950	Dichlorotetrafluoroethane, 1,2-; (Freon 114, CFC 114)	76-14-2	G	-93.9	3.8	2014	25	1.455	1	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
937	Dichloropropane, 1,1-	78-99-9			10/15/06		NA
938	Dichloropropane, 1,2-; (Propylene dichloride)	78-87-5	08/21/96		10/15/06		2
939	Dichloropropane, 1,3-	142-28-9	09/30/97		10/15/06		NA
940	Dichloropropane, 2,2-	594-20-7	09/30/97		10/15/06		NA
941	Dichloropropene, 1,1-	563-58-6	09/30/97		10/15/06		NA
942	Dichloropropene, 1,2-	563-54-2	09/30/97		10/15/06		NA
943	Dichloropropene, 1,3-	542-75-6	08/21/96		10/15/06		2
944	Dichloropropene, 2,3-	78-88-6			10/15/06		3
945	Dichloropropene, cis-1,2-; (1,2-dichloro-1-propene, (Z)-)	6923-20-2	09/30/97		10/15/06		NA
946	Dichloropropene, cis-1,3-	10061-01-5	01/04/99		10/15/06		NA
947	Dichloropropene, trans-1,3-	10061-02-6	03/01/00		10/15/06		2
948	**Dichlorosilane**	**4109-96-0**		07/18/08	06/30/08	EPA.	4
949	Dichlorotetrafluoroethane	1320-37-2	10/31/92	06/17/08	06/17/08		NA
950	Dichlorotetrafluoroethane, 1,2-; (Freon 114, CFC 114)	76-14-2	08/21/96	06/17/08	02/21/08		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
951	Dichlorovos; (Dichlorvos)	62-73-7	DGP900	220.98	ppm	N	9.03	C4.H7.Cl2.O4.P
952	Dicrotophos	141-66-2	DGQ875	237.22	mg/m3	N	9.70	C8.H16.N.O5.P
953	Dicyclohexano-18-crown-6	16069-36-6	DGV100	372.56	mg/m3	Y	15.23	C20.H36.O6
954	Dicyclohexyl; (Cyclohexylcyclohexane)	92-51-3	N.I.S.	166.30	mg/m3	N	6.80	C6.H11.C6.H11
955	Dicyclohexylcarbodiimide	538-75-0	MDR800	206.37	mg/m3	N	8.43	C13.H22.N2
956	**Dicyclopentadiene**	**77-73-6**	DGW000	132.22	ppm	Y	5.40	C10.H12
957	Didecyldimethylammonium chloride	7173-51-5	DGX200	362.16	mg/m3	Y	14.80	C22.H48.N..Cl
958	Dieldrin	60-57-1	DHB400	380.90	mg/m3	N	15.57	C12.H8.Cl6.O
959	Diesel fuel marine; (Diesel fuel No. 4)	z-0012	DHE750		mg/m3	Y		[Unspecified]
960	Diesel fuel marine; (Fuel oil No.2)	68476-30-2	DHE800		mg/m3	Y		[Unspecified]
961	Diesel fuels	68334-30-5	DHE900		mg/m3	Y		[Unspecified]
962	Diethanolamine	111-42-2	DHF000	105.16	mg/m3	Y	4.30	C4.H11.N.O2
963	Diethenylbenzene, polymer with ethenylbenzene and ethenylethylbenzene, sulfonated; (Dowex 50-X8 resin)	69011-20-7	N.I.S.		mg/m3	N		[Unspecified]
964	Diethoxydimethylsilane	78-62-6	DHG000	148.31	ppm	Y	6.06	C6.H16.O2.Si

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
951	Dichlorovos; (Dichlorvos)	62-73-7	L		120 @ 14 mm				3	
952	Dicrotophos	141-66-2	L		400	0.000086	20	1.216 @ 15C	3	
953	Dicyclohexano-18-crown-6	16069-36-6	S wax	38-54	344				3	
954	Dicyclohexyl; (Cyclohexylcyclohexane)	92-51-3	L	3.4	227			0.864	2	
955	Dicyclohexylcarbodiimide	538-75-0	S	34.5	123 @ 6mm				3	
956	**Dicyclopentadiene**	**77-73-6**	L	32.9	166.6	10	47.6	0.976 @ 35C	3	8000
957	Didecyldimethylammonium chloride	7173-51-5							3	
958	Dieldrin	60-57-1	S	176-177				13.2 vapor	3	
959	Diesel fuel marine; (Diesel fuel No. 4)	z-0012	L						2	
960	Diesel fuel marine; (Fuel oil No.2)	68476-30-2	L					<1	3	[13000]
961	Diesel fuels	68334-30-5	L						2	[13000]
962	Diethanolamine	111-42-2	L	28	270	5	138	1.0919	3	16000
963	Diethenylbenzene, polymer with ethenylbenzene and ethenylethylbenzene, sulfonated; (Dowex 50-X8 resin)	69011-20-7	S							
964	Diethoxydimethylsilane	78-62-6	L		114	10	13.3	0.86	3	12220

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
951	Dichlorovos; (Dichlorvos)	62-73-7	09/30/97		10/15/06		3
952	Dicrotophos	141-66-2			10/15/06		NA
953	Dicyclohexano-18-crown-6	16069-36-6	08/07/98		10/15/06		NA
954	Dicyclohexyl; (Cyclohexylcyclohexane)	92-51-3			04/20/07		1
955	Dicyclohexylcarbodiimide	538-75-0			10/15/06		NA
956	**Dicyclopentadiene**	**77-73-6**			08/14/07	AIHA.	3
957	Didecyldimethylammonium chloride	7173-51-5	09/17/07		09/17/07	RTECS.	
958	Dieldrin	60-57-1	08/21/96		10/15/06		NA
959	Diesel fuel marine; (Diesel fuel No. 4)	z-0012	09/30/97		04/20/07		
960	Diesel fuel marine; (Fuel oil No.2)	68476-30-2	09/30/97		04/20/07		1
961	Diesel fuels	68334-30-5	09/30/97		10/15/06		1
962	Diethanolamine	111-42-2	09/30/97		10/15/06		3
963	Diethenylbenzene, polymer with ethenylbenzene and ethenylethylbenzene, sulfonated; (Dowex 50-X8 resin)	69011-20-7	08/07/98		10/15/06		NA
964	Diethoxydimethylsilane	78-62-6	03/01/00		10/15/06		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
965	Diethyl (methylthiomethyl) phosphonate	28460-01-7	N.I.S. etc.	198.22	ppm	Y	8.10	C6.H15.O3.P.S
966	**Diethyl benzene isomers; (Dowtherm J)**	**25340-17-4**	DIU000	134.24	ppm	Y	5.49	C10.H14
967	Diethyl carbonate	105-58-8	DIX200	118.15	ppm	Y	4.83	C5.H10.O3
968	Diethyl chlorophosphate	814-49-3	DIY000	172.56	mg/m3	Y	7.05	C4.H10.Cl.O3.P
969	Diethyl ethylphosphonate	78-38-6	N.I.S.	166.16	mg/m3	N	6.79	C6.H15.O3.P
970	Diethyl malonate; (Ethyl malonate)	105-53-3	EMA500	160.19	ppm	Y	6.55	C7.H12.O4
971	Diethyl mercury	627-44-1	DJO400	258.73	mg/m3	Y	10.57	C4.H10.Hg
972	Diethyl methylphosphonate; (DEMP)	683-08-9	N.I.S.	152.15	mg/m3	N	6.22	C5.H13.O3.P
973	Diethyl oxalate	95-92-1	DJT200	146.16	mg/m3	Y	5.97	C6.H10.O4
974	Diethyl phosphite	762-04-9	DJW400	138.12	mg/m3	N	5.65	C4.H11.O4.P
975	Diethyl phthalate; (Ethyl phthalate)	84-66-2	DJX000	222.26	mg/m3	Y	9.08	C12.H14.O4
976	Diethyl pyrocarbonate	1609-47-8	DIZ100	162.16	mg/m3	N	6.63	C6.H10.O5
977	Diethyl sulfate	64-67-5	DKB110	154.20	ppm	Y	6.30	C4.H19.O4.S
978	Diethyl tartrate	87-91-2	N.I.S.	206.19	mg/m3	N	8.43	C8.H14.O6

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
965	Diethyl (methylthiomethyl) phosphonate	28460-01-7	L							
966	**Diethyl benzene isomers; (Dowtherm J)**	**25340-17-4**	L	< -31	183.8	1.05	25	0.868	3	7000
967	Diethyl carbonate	105-58-8	L	-43	126	10.8	25	0.9752 @ 20C	3	14000
968	Diethyl chlorophosphate	814-49-3	L/S		88-90 @ 15 mm			1.21 @ 20C	3	
969	Diethyl ethylphosphonate	78-38-6	L		198			1.0259	2	
970	Diethyl malonate; (Ethyl malonate)	105-53-3	L	-49.8	198.9	1	40	1.055 @ 20C	2	13000
971	Diethyl mercury	627-44-1	L		159			2.43	3	
972	Diethyl methylphosphonate; (DEMP)	683-08-9								
973	Diethyl oxalate	95-92-1	L	-40.6	185.4	1	47	1.079 @ 20C	3	
974	Diethyl phosphite	762-04-9	L		187-188			1.074 @ 20C	2	
975	Diethyl phthalate; (Ethyl phthalate)	84-66-2	L	-0.3	302	14	163	1.11	3	7000
976	Diethyl pyrocarbonate	1609-47-8	L		160-163			1.12	3	
977	Diethyl sulfate	64-67-5	L	-25	209.5	1	47	1.18	3	41000
978	Diethyl tartrate	87-91-2	L	18.7	280			1.24		

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
965	Diethyl (methylthiomethyl) phosphonate	28460-01-7			10/15/06		NA
966	**Diethyl benzene isomers; (Dowtherm J)**	**25340-17-4**			08/14/07	AIHA.	2
967	Diethyl carbonate	105-58-8	04/15/07		10/15/06		1
968	Diethyl chlorophosphate	814-49-3			10/15/06		NA
969	Diethyl ethylphosphonate	78-38-6	01/04/99		04/20/07		NA
970	Diethyl malonate; (Ethyl malonate)	105-53-3			10/15/06		1
971	Diethyl mercury	627-44-1	09/30/97	04/03/08	10/15/06	GOEV, NIOSH, RTECS.	NA
972	Diethyl methylphosphonate; (DEMP)	683-08-9	01/04/99		10/15/06		NA
973	Diethyl oxalate	95-92-1			10/15/06		1
974	Diethyl phosphite	762-04-9			10/15/06		NA
975	Diethyl phthalate; (Ethyl phthalate)	84-66-2	08/21/96		10/15/06		1
976	Diethyl pyrocarbonate	1609-47-8			04/20/07		NA
977	Diethyl sulfate	64-67-5	09/30/97		10/15/06		3
978	Diethyl tartrate	87-91-2			04/20/07		1

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
979	Diethyl telluride	627-54-3	DKB150	185.72	mg/m3	N	7.59	C4.H10.Te
980	Diethylamine	109-89-7	DHJ200	73.16	ppm	Y	2.99	C4.H11.N
981	Diethylaminoacetone	1620-14-0	N.I.S. etc.	129.00	ppm	N	5.27	[Unknown]
982	Diethylaminopropylamine	104-78-9	DIY800	130.27	mg/m3	Y	5.32	C7.H18.N2
983	Diethylaniline, N,N-	91-66-7	DIS700	149.26	mg/m3	N	6.10	C10.H15.N
984	Diethylbenzene, m-	141-93-5	DIU200	134.24	mg/m3	N	5.49	C10.H14
985	Diethylbenzene, o-	135-01-3	DIU300	134.24	mg/m3	N	5.49	C10.H14
986	**Diethyldichlorosilane**	**1719-53-5**	DEY800	157.13	ppm	Y	6.42	C4.H10.Cl2.Si
987	Diethylene glycol	111-46-6	DJD600	106.14	ppm	Y	4.34	C4.H10.O3
988	Diethylene glycol di(3-aminopropyl) ether; (Polyglycol diamine)	4246-51-9	DJD800	220.36	mg/m3	N	9.01	C10.H24.N2.O3
989	Diethylene glycol diacetate; (2,2'-oxybisethanol diacetate)	628-68-2	DJD750	190.22	mg/m3	N	7.77	C8.H14.O5
990	Diethylene glycol dimethyl ether; (Bis(2-methoxy ethyl)ether)	111-96-6	BKN750	134.48	ppm	N	5.50	C6.H14.O3
991	Diethylene glycol hexyl ether; (n-Hexyl carbitol)	112-59-4	HFN000	190.32	mg/m3	Y	7.78	C10.H22.03
992	Diethylenetriamine	111-40-0	DJG600	103.20	ppm	Y	4.22	H.N.(C2.H4..N.H2)2

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
979	Diethyl telluride	627-54-3	S	137.5				1.5182 @ 15C	3	
980	Diethylamine	109-89-7	L	-38.9	55.5	400	38	0.711	3	18000
981	Diethylaminoacetone	1620-14-0								
982	Diethylaminopropylamine	104-78-9	L		165-170			0.82	3	14000
983	Diethylaniline, N,N-	91-66-7	L	-38	215-216			0.9302	2	
984	Diethylbenzene, m-	141-93-5	S		181-182				2	
985	Diethylbenzene, o-	135-01-3	L	<-20	183.5				1	
986	**Diethyldichlorosilane**	**1719-53-5**	L	-98.5	129 dec	40.4	48.1	1.0504 @ 20C	3	
987	Diethylene glycol	111-46-6	L	-6.5	244-245	0.07	22	1.1184	2	16000
988	Diethylene glycol di(3-aminopropyl) ether; (Polyglycol diamine)	4246-51-9	L		147			1.005	2	
989	Diethylene glycol diacetate; (2,2'-oxybisethanol diacetate)	628-68-2	S	18	200			1.1068	1	
990	Diethylene glycol dimethyl ether; (Bis(2-methoxy ethyl)ether)	111-96-6	L	-68	162			0.9451	3	14000
991	Diethylene glycol hexyl ether; (n-Hexyl carbitol)	112-59-4	L	-33.3	259.1	0.01	20	0.935	2	
992	Diethylenetriamine	111-40-0	L	-39	207	0.22	20	0.9586	3	10000

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
979	Diethyl telluride	627-54-3	06/25/07		06/25/07	RTECS.	NA
980	Diethylamine	109-89-7	08/07/98		11/21/07	GOEV, RTECS	3
981	Diethylaminoacetone	1620-14-0			10/15/06		NA
982	Diethylaminopropylamine	104-78-9			04/20/07		2
983	Diethylaniline, N,N-	91-66-7	09/30/97		10/15/06		2
984	Diethylbenzene, m-	141-93-5	01/04/99		10/15/06		2
985	Diethylbenzene, o-	135-01-3	01/04/99		10/15/06		2
986	**Diethyldichlorosilane**	**1719-53-5**	07/02/08	07/18/08	07/02/08	EPA, HSDB.	
987	Diethylene glycol	111-46-6	08/07/98		10/15/06		1
988	Diethylene glycol di(3-aminopropyl) ether; (Polyglycol diamine)	4246-51-9			10/15/06		NA
989	Diethylene glycol diacetate; (2,2'-oxybisethanol diacetate)	628-68-2	03/01/00		10/15/06		1
990	Diethylene glycol dimethyl ether; (Bis(2-methoxy ethyl)ether)	111-96-6			10/15/06		1
991	Diethylene glycol hexyl ether; (n-Hexyl carbitol)	112-59-4			04/20/07		NA
992	Diethylenetriamine	111-40-0	01/04/99		10/15/06		3

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
993	Diethylenetriaminepentaacetic acid	67-43-6	DJG800	393.40	mg/m3	N	16.08	C14.H23.N3.O10
994	Diethylethanolamine, N,N-; (Diethylaminoethanol)	100-37-8	DHO500	117.22	ppm	Y	4.79	C6.H15.N.O.
995	Diethylphosphatoethyltriethoxy silane	757-44-8	DKD500	328.47	mg/m3	N	13.43	C12.H29.O6.P.Si
996	Diethylstilbestrol; ((E)-4,4'-(1,2-diethyl-1,2-ethenediyl)bisphenol)	56-53-1	DKA600	268.38	mg/m3	N	10.97	C18.H20.O2
997	Diethylthiourea, N,N'-	105-55-5	DKC400	132.25	mg/m3	N	5.41	C5.H12.N2.S
998	Diethylurea, 1,3-	623-76-7	N.I.S.	116.19	ppm	N	4.75	C5.H12.N2.O
999	Diethylzinc	557-20-0	DKE600	123.51	ppm	Y	5.05	(C2.H5)2..Zn
1000	**Difluoroethane; (1,1-Difluoroethane; HFC 152a)**	**75-37-6**	ELN500	66.06	ppm	N	2.70	C2.H4.F2
1001	Digitoxin	71-63-6	DKL800	765.05	mg/m3	Y	31.27	C41.H64.O13
1002	Diglycidyl Ether	2238-07-5	DKM200	130.16	ppm	Y	5.32	C6.H10.O3
1003	Diglycol monoethyl ether acetate; (Carbitol acetate)	112-15-2	CEQ750	176.24	mg/m3	Y	7.20	C8.H16.O4
1004	Digoxin	20830-75-5	DKN400	781.05	mg/m3	N	31.92	C41.H64.O14
1005	Dihexyl((diethylcarbamoyl)methyl)phosphonate; (Dihexyl-N,N-diethylcarbamoylmethyl phosphonate)	7369-66-6	N.I.S.etc.	363.48	mg/m3	Y	14.86	C18.H38.N.O4.P
1006	Dihydro-2(3H)-furanone; (4-Butanolide)	96-48-0	BOV000	86.10	mg/m3	N	3.52	C4.H6.O2

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
993	Diethylenetriaminepentaacetic acid	67-43-6							2	
994	Diethylethanolamine, N,N-; (Diethylaminoethanol)	100-37-8	L hygr	-70	162	1.4	20	0.8851 @ 20C	3	67000
995	Diethylphosphatoethyltriethoxy silane	757-44-8	S		141 @ 2MM			1.031	1	
996	Diethylstilbestrol; ((E)-4,4'-(1,2-diethyl-1,2-ethenediyl)bisphenol)	56-53-1	S	171-172					3	
997	Diethylthiourea, N,N'-	105-55-5	S	77					3	
998	Diethylurea, 1,3-	623-76-7	S	112.5	263			1.0415 @ 25C		14670
999	Diethylzinc	557-20-0	L	-28	118	20.8	25	1.187 @ 18C	3	
1000	**Difluoroethane; (1,1-Difluoroethane; HFC 152a)**	**75-37-6**	L	-117	-26.5	4550	25	1.004 @ 25C	3	37000
1001	Digitoxin	71-63-6	S	256-257					3	
1002	Diglycidyl Ether	2238-07-5	L		260	0.09	25	1.126 @ 25C	3	
1003	Diglycol monoethyl ether acetate; (Carbitol acetate)	112-15-2	L	-25	217.4	0.05	20	1.0114	2	10000
1004	Digoxin	20830-75-5	S	265 dec					3	
1005	Dihexyl((diethylcarbamoyl)methyl)phosphonate; (Dihexyl-N,N-diethylcarbamoylmethyl phosphonate)	7369-66-6	S			0.3	168	0.98	2	
1006	Dihydro-2(3H)-furanone; (4-Butanolide)	96-48-0	L	-44	203-204			1.41 @ 0C	2	14000

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
993	Diethylenetriaminepentaacetic acid	67-43-6	07/09/97		10/15/06		NA
994	Diethylethanolamine, N,N-; (Diethylaminoethanol)	100-37-8	05/16/07	02/26/08	11/09/07	GOEV, RTECS, NIOSH.	3
995	Diethylphosphatoethyltriethoxy silane	757-44-8			10/15/06		NA
996	Diethylstilbestrol; ((E)-4,4'-(1,2-diethyl-1,2-ethenediyl)bisphenol)	56-53-1			10/15/06		NA
997	Diethylthiourea, N,N'-	105-55-5	01/04/99		10/15/06		NA
998	Diethylurea, 1,3-	623-76-7			10/15/06		NA
999	Diethylzinc	557-20-0			10/15/06		3
1000	**Difluoroethane; (1,1-Difluoroethane; HFC 152a)**	**75-37-6**			07/30/07	AIHA	NA
1001	Digitoxin	71-63-6			10/15/06		NA
1002	Diglycidyl Ether	2238-07-5		02/26/08	12/06/07	GOEV, EPA, RTECS	NA
1003	Diglycol monoethyl ether acetate; (Carbitol acetate)	112-15-2	09/30/97		10/15/06		2
1004	Digoxin	20830-75-5			10/15/06		NA
1005	Dihexyl((diethylcarbamoyl)methyl)phosphonate; (Dihexyl-N,N-diethylcarbamoylmethyl phosphonate)	7369-66-6			10/15/06		NA
1006	Dihydro-2(3H)-furanone; (4-Butanolide)	96-48-0			10/15/06		1

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1007	Dihydro-2H-pyran, 3,4-	110-87-2	DMC200	84.13	ppm	N	3.44	O.(C.H2)3..C.H..C.H
1008	Dihydro-3-(Nonenyl)-2,5-furandione	28928-97-4	N.I.S.	226.32	mg/m3	N	9.25	C13.H22.O3
1009	Dihydro-4-methyl furan, 2,3-	34314-83-5	(MKH000)	84.12	mg/m3	Y	3.44	C5.H8.O
1010	Dihydrogen hexachloroplatinate; (Chloroplatinic acid)	16941-12-1	CKO750	409.81	mg/m3	Y	16.75	H2.Pt.Cl6..6(H2.O)
1011	Dihydroxy-1,3-indandione, 2,2-; (Ninhydrin monohydrate)	485-47-2	DMV200	178.15	mg/m3	N	7.28	C9.H6.O4
1012	Dihydroxy-2-butene, 1,4-; (2-Butene-1,4-diol)	110-64-5	BOX300	88.12	ppm	N	3.60	C4.H8.O2
1013	Dihydroxyanthraquinone, 1,8-	117-10-2	DMH400	240.22	mg/m3	Y	9.82	C14.H8.O4
1014	Dihydroxybenzoic acid, 2,4-	89-86-1	HOE600	154.13	mg/m3	N	6.30	C7.H6.O4
1015	Dihydroxynaphthalene-2,7-disulfonic acid, disodium salt dihydrate, 4,5-	5808-22-0	N.I.S. etc.	400.28	mg/m3	N	16.36	C10.H10.Na.O10.S2
1016	Diiodomethane; (Methylene iodide)	75-11-6	DNF800	267.83	mg/m3	Y	10.95	C.H2.I2
1017	Diisoamylamine	544-00-3	N.I.S.	157.30	ppm	N	6.43	C10.H22.S
1018	Diisobutyl ketone	108-83-8	DNI800	142.27	ppm	Y	5.81	C9.H18.O
1019	Diisobutylaluminum hydride; (Diisobutylhydroaluminum)	1191-15-7	DNI600	142.25	ppm	N	5.81	[(C.H3)2.C.H.C.H2]2.Al.H
1020	Diisobutylamine	110-96-3	DNH400	129.28	ppm	N	5.28	C8.H10.N

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1007	Dihydro-2H-pyran, 3,4-	110-87-2	L mobile		86-87			0.922 @ 19C	3	
1008	Dihydro-3-(Nonenyl)-2,5-furandione	28928-97-4	S		325			1.08		
1009	Dihydro-4-methyl furan, 2,3-	34314-83-5	L						3	
1010	Dihydrogen hexachloroplatinate; (Chloroplatinic acid)	16941-12-1	S	60				2.431	3	
1011	Dihydroxy-1,3-indandione, 2,2-; (Ninhydrin monohydrate)	485-47-2	S	241.3 dec		2.36E-07	25	0.862	3	
1012	Dihydroxy-2-butene, 1,4-; (2-Butene-1,4-diol)	110-64-5	L	7	234	0.0462	25	1.07	3	
1013	Dihydroxyanthraquinone, 1,8-	117-10-2	S	193					2	
1014	Dihydroxybenzoic acid, 2,4-	89-86-1	S	218-219					D	
1015	Dihydroxynaphthalene-2,7-disulfonic acid, disodium salt dihydrate, 4,5-	5808-22-0	S	300 dec						
1016	Diiodomethane; (Methylene iodide)	75-11-6	L	5 to 6	181			3.33 @ 15C	3	
1017	Diisoamylamine	544-00-3	L	-74.6	211			0.8323 @ 20C		
1018	Diisobutyl ketone	108-83-8	L		166			0.81	3	8000
1019	Diisobutylaluminum hydride; (Diisobutylhydroaluminum)	1191-15-7	L	-80	140 @ 4 mm			0.798	3	
1020	Diisobutylamine	110-96-3	L	-70	139	7.27	25	0.745 @ 20C	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1007	Dihydro-2H-pyran, 3,4-	110-87-2			10/15/06		1
1008	Dihydro-3-(Nonenyl)-2,5-furandione	28928-97-4			10/15/06		NA
1009	Dihydro-4-methyl furan, 2,3-	34314-83-5	03/01/00		10/15/06		NA
1010	Dihydrogen hexachloroplatinate; (Chloroplatinic acid)	16941-12-1	07/09/97		10/15/06		NA
1011	Dihydroxy-1,3-indandione, 2,2-; (Ninhydrin monohydrate)	485-47-2			10/15/06		NA
1012	Dihydroxy-2-butene, 1,4-; (2-Butene-1,4-diol)	110-64-5			10/15/06		NA
1013	Dihydroxyanthraquinone, 1,8-	117-10-2	01/04/99		10/15/06		NA
1014	Dihydroxybenzoic acid, 2,4-	89-86-1			10/15/06		NA
1015	Dihydroxynaphthalene-2,7-disulfonic acid, disodium salt dihydrate, 4,5-	5808-22-0			10/15/06		NA
1016	Diiodomethane; (Methylene iodide)	75-11-6			10/15/06		NA
1017	Diisoamylamine	544-00-3			04/20/07		NA
1018	Diisobutyl ketone	108-83-8			04/20/07		1
1019	Diisobutylaluminum hydride; (Diisobutylhydroaluminum)	1191-15-7			04/20/07		3
1020	Diisobutylamine	110-96-3			10/15/06		3

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1021	Diisooctyl acid phosphate	27215-10-7	DNK800	322.48	mg/m3	Y	13.18	C16.H35.O4.P
1022	Diisopropyl methylphosphonate	1445-75-6	DNQ875	180.21	mg/m3	N	7.37	C7.H17.O3.P
1023	Diisopropyl peroxydicarbonate	105-64-6	DNR400	206.22	mg/m3	Y	8.43	C8.H14.O6
1024	Diisopropylamine	108-18-9	DNM200	101.22	ppm	Y	4.14	C6.H15.N
1025	Diisopropylamino)ethyl chloride hydrochloride, 2-(-	4261-68-1	N.I.S.	200.18	mg/m3	Y	8.18	C8.H18.Cl.N.. Cl.H
1026	Diisopropylaminoethanol, 2-; (N,N-Diisopropyl ethanolamine)	96-80-0	DNP000	145.28	mg/m3	Y	5.94	C8.H19.N.O
1027	Diisopropylaniline, 2,6-	24544-04-5	DNN630	177.32	mg/m3	N	7.25	C12.H19.N
1028	Diisopropylbenzene, 1,3-	99-62-7	DNN829	162.30	mg/m3	N	6.63	C12.H18
1029	Diisopropylethylamine, N,N-	7087-68-5	N.I.S., etc.	129.24	ppm	N	5.28	C8.H19.N
1030	Diisopropylfluorophosphate; (Phosphorofluoridic acid, bis(1-methylethyl)	55-91-4	IRF000	184.17	mg/m3	N	7.53	C6.H14.F.O3.P
1031	Diisopropylnaphthalene; (Bis(isopropyl)naphthalene)	38640-62-9	BKL600	212.36	mg/m3	N	8.68	C16.H20
1032	**Diketene; (Ketene dimer)**	**674-82-8**	KFA000	84.08	ppm	Y	3.44	C.H..C.C.H2.C.(O).O
1033	Dilauroyl peroxide	105-74-8	LBR000	398.70	mg/m3	Y	16.30	C24.H46.O4
1034	Dimefox; (bis(Dimethylamido)fluorophosphate))	115-26-4	BJE750	154.15	mg/m3	N	6.30	C4.H12.F.N2.O.P

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1021	Diisooctyl acid phosphate	27215-10-7	S			4.70E-08	25		2	
1022	Diisopropyl methylphosphonate	1445-75-6	L		663 mm				2	
1023	Diisopropyl peroxydicarbonate	105-64-6	S	36016	17.2			1.080 @ 15C	3	
1024	Diisopropylamine	108-18-9	L		83-84			0.722 @ 220C	3	11000
1025	Diisopropylamino)ethyl chloride hydrochloride, 2-(-	4261-68-1	S							
1026	Diisopropylaminoethanol, 2-; (N,N-Diisopropyl ethanolamine)	96-80-0							2	
1027	Diisopropylaniline, 2,6-	24544-04-5	L	-45	257			0.94	2	
1028	Diisopropylbenzene, 1,3-	99-62-7	L	-61	203.2	1	34.7	0.856	2	
1029	Diisopropylethylamine, N,N-	7087-68-5	L	<-50	126.5			0.742		
1030	Diisopropylfluorophosphate; (Phosphorofluoridic acid, bis(1-methylethyl)	55-91-4	S	-82	185	0.58	25	1.07	3	
1031	Diisopropylnaphthalene; (Bis(isopropyl)naphthalene)	38640-62-9	S						2	
1032	**Diketene; (Ketene dimer)**	**674-82-8**	L	-6.5	127.4	10	24.3	1.0897	3	25000
1033	Dilauroyl peroxide	105-74-8	S	49	62 dec			0.91 @ 25C	3	
1034	Dimefox; (bis(Dimethylamido)fluorophosphate))	115-26-4	L		67 @ 4 mm	0.11	20	1.115 @ 20C	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1021	Diisooctyl acid phosphate	27215-10-7	09/17/07		09/17/07		
1022	Diisopropyl methylphosphonate	1445-75-6	07/09/97		10/15/06		NA
1023	Diisopropyl peroxydicarbonate	105-64-6			10/15/06		3
1024	Diisopropylamine	108-18-9	01/04/99		10/15/06		3
1025	Diisopropylamino)ethyl chloride hydrochloride, 2-(-	4261-68-1			10/15/06		NA
1026	Diisopropylaminoethanol, 2-; (N,N-Diisopropyl ethanolamine)	96-80-0	01/04/99		10/15/06		3
1027	Diisopropylaniline, 2,6-	24544-04-5			04/20/07		NA
1028	Diisopropylbenzene, 1,3-	99-62-7			04/20/07		NA
1029	Diisopropylethylamine, N,N-	7087-68-5			10/15/06		NA
1030	Diisopropylfluorophosphate; (Phosphorofluoridic acid, bis(1-methylethyl)	55-91-4			10/15/06		NA
1031	Diisopropylnaphthalene; (Bis(isopropyl)naphthalene)	38640-62-9	01/04/99		10/15/06		NA
1032	**Diketene; (Ketene dimer)**	**674-82-8**	10/31/92	07/18/08	06/30/08	AIHA, EPA.	3
1033	Dilauroyl peroxide	105-74-8			10/15/06		NA
1034	Dimefox; (bis(Dimethylamido)fluorophosphate))	115-26-4			10/15/06		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1035	Dimethoate	60-51-5	DSP400	229.27	mg/m3	N	9.37	C3.H12.N.O3.P.S2
1036	Dimethoxybenzene, 1,3-	151-10-0	REF025	138.18	mg/m3	N	5.65	C8.H10.02
1037	Dimethoxybenzene, o-	91-16-7	DOA200	138.18	mg/m3	N	5.65	C8.H10.O2
1038	Dimethoxybenzidene 3,3'-; (o-Dianisidine)	119-90-4	DCJ200	244.32	mg/m3	N	9.99	C14.H16.N2.O3
1039	Dimethoxybutane, 1,3-	10143-66-5	DOB200	118.20	ppm	Y	4.83	C6.H14.O2
1040	Dimethoxybutane, 2,2-	3453-99-4	N.I.S.	118.18	ppm	Y	4.83	C.C.(C.H3.O)2..C.C
1041	Dimethoxydiphenylsilane	6843-66-9	N.I.S.	244.39	mg/m3	N	9.99	C14.H16.O2.Si
1042	Dimethoxyethane, 1,2-	110-71-4	DOE600	90.14	ppm	N	3.68	C4.H10.O2
1043	Dimethoxypropane, 2,2-	77-76-9	DOM400	104.15	ppm	N	4.26	C5.H12.O2
1044	Dimethyglyoxime; (Diacetyldioxime)	95-45-4	DBH000	116.14	mg/m3	N	4.75	C4.H3.N2.O2
1045	Dimethyl butane, 2,2-	75-83-2	DQT200	86.20	ppm	Y	3.52	C6.H14
1046	Dimethyl carbamoyl chloride	79-44-7	DQY950	107.55	ppm	N	4.40	C3.H6.Cl.N.O
1047	Dimethyl carbonate	616-38-6	MIF000	90.09	ppm	Y	3.68	C3.H6.O3
1048	Dimethyl cyclopentanol, 1,3-	19550-46-0	N.I.S. etc.	114.19	mg/m3	N	4.67	C7.H14.O

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1035	Dimethoate	60-51-5	S	51-52	107 @ 0.05 mm	1.1 mPa	25	1.277 @ 65C	3	
1036	Dimethoxybenzene, 1,3-	151-10-0	L	-52	217.5			1.0521	2	
1037	Dimethoxybenzene, o-	91-16-7	S	22.5	206			1.081	2	
1038	Dimethoxybenzidene 3,3'-; (o-Dianisidine)	119-90-4	S	137-8					3	
1039	Dimethoxybutane, 1,3-	10143-66-5	L						2	12900
1040	Dimethoxybutane, 2,2-	3453-99-4	L						2	12940
1041	Dimethoxydiphenylsilane	6843-66-9	S		286					
1042	Dimethoxyethane, 1,2-	110-71-4	L	-58	82-83			0.86877	3	16000
1043	Dimethoxypropane, 2,2-	77-76-9	L	-47	83			0.847	3	
1044	Dimethyglyoxime; (Diacetyldioxime)	95-45-4	S	238-240					3	
1045	Dimethyl butane, 2,2-	75-83-2	L	-98.2	49.7	400	31	0.649	3	12000
1046	Dimethyl carbamoyl chloride	79-44-7	L	-33	165-167			1.678	3	
1047	Dimethyl carbonate	616-38-6	L	0.5	90.91	55.364	25	1.065 @ 17C	3	
1048	Dimethyl cyclopentanol, 1,3-	19550-46-0	L							

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1035	Dimethoate	60-51-5			10/15/06		NA
1036	Dimethoxybenzene, 1,3-	151-10-0			10/15/06		NA
1037	Dimethoxybenzene, o-	91-16-7			10/15/06		NA
1038	Dimethoxybenzidene 3,3'-; (o-Dianisidine)	119-90-4	08/21/96		10/15/06		1
1039	Dimethoxybutane, 1,3-	10143-66-5			10/15/06		NA
1040	Dimethoxybutane, 2,2-	3453-99-4			10/15/06		NA
1041	Dimethoxydiphenylsilane	6843-66-9			10/15/06		NA
1042	Dimethoxyethane, 1,2-	110-71-4	01/04/99		10/15/06		1
1043	Dimethoxypropane, 2,2-	77-76-9			04/20/07		NA
1044	Dimethyglyoxime; (Diacetyldioxime)	95-45-4	08/07/98		10/15/06		NA
1045	Dimethyl butane, 2,2-	75-83-2	01/04/99		10/15/06		2
1046	Dimethyl carbamoyl chloride	79-44-7	09/30/97	02/26/08	12/06/07	GOEV, RTECS	NA
1047	Dimethyl carbonate	616-38-6			10/15/06		1
1048	Dimethyl cyclopentanol, 1,3-	19550-46-0			10/15/06		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1049	**Dimethyl disulfide**	**624-92-0**	DRQ400	94.20	ppm	N	3.85	(C.H3)2..S2
1050	Dimethyl hydrogen phosphite	868-85-9	DSG600	110.06	mg/m3	Y	4.50	C2.H5.03.P
1051	Dimethyl mercury	593-74-8	DSM450	230.67	mg/m3	Y	9.43	C2.H6.Hg
1052	Dimethyl methylphosphonate; (DMMP)	756-79-6	DSR400	124.09	mg/m3	N	5.07	C3.H9.O3.P
1053	Dimethyl phosphorochloridothioate	2524-03-0	DTQ600	160.56	mg/m3	N	6.56	C2.H6.Cl.O2.P.S
1054	Dimethyl siloxane; (Dimethylpolysiloxane; Syltherm XLT; Syltherm 800; Silicone 360)	63148-62-9	DUB600 SCR400		mg/m3	N		[Unspecified]
1055	**Dimethyl sulfate**	**77-78-1**	DUD100	126.14	ppm	Y	5.16	(C.H3)2.S.O4
1056	**Dimethyl sulfide; (2-Thiopropane)**	**75-18-3**	TFP000	62.14	ppm	Y	2.54	(C.H3)2.S
1057	Dimethyl sulfone	67-71-0	N.I.S.	94.13	mg/m3	N	3.85	C2.H6.O2.S
1058	Dimethyl sulfoxide; (DMSO)	67-68-5	DUD800	78.14	ppm	Y	3.19	(C.H3)2.S.O
1059	Dimethyl(1-phenylethyl)benzene	40766-31-2	N.I.S.		mg/m3	N		C16.H18
1060	Dimethyl(polysiloxane); (Polydimethylsiloxane, silanol terminated; Dimethylsiloxane, poly, hydroxy end-blocked)	70131-67-8	N.I.S.		mg/m3	N		
1061	Dimethyl-1,3-dioxolane-4-methanol, 2,2-	100-79-8	DVR600	132.18	ppm	Y	5.40	C6.H12.O3

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1049	**Dimethyl disulfide**	**624-92-0**	L		109.7	28.6	25	1.057	3	11000
1050	Dimethyl hydrogen phosphite	868-85-9	L		56.5 @ 8mm			1.2	3	
1051	Dimethyl mercury	593-74-8	L		92			3.1874	3	
1052	Dimethyl methylphosphonate; (DMMP)	756-79-6	L		66-68 @10mm				2	
1053	Dimethyl phosphorochloridothioate	2524-03-0	L		68 @ 12 mm	4	40	1.326	3	
1054	Dimethyl siloxane; (Dimethylpolysiloxane; Syltherm XLT; Syltherm 800; Silicone 360)	63148-62-9	Lvisc						2 D	
1055	**Dimethyl sulfate**	**77-78-1**	L	-31.8	188			1.332	3	
1056	**Dimethyl sulfide; (2-Thiopropane)**	**75-18-3**	L	-83.2	37.5-38	400	19	0.8458	3	22000
1057	Dimethyl sulfone	67-71-0	S	108.9	238			1.1700 @ 10C		
1058	Dimethyl sulfoxide; (DMSO)	67-68-5	L	18.5	189			1.1	2	26000
1059	Dimethyl(1-phenylethyl)benzene	40766-31-2	L						3	
1060	Dimethyl(polysiloxane); (Polydimethylsiloxane, silanol terminated; Dimethylsiloxane, poly, hydroxy end-blocked)	70131-67-8	L					1		
1061	Dimethyl-1,3-dioxolane-4-methanol, 2,2-	100-79-8	L	-26.4	75	70	20	1.065	1	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1049	**Dimethyl disulfide**	**624-92-0**	08/21/96		12/06/07	GOEV, AIHA.	NA
1050	Dimethyl hydrogen phosphite	868-85-9			10/15/06		NA
1051	Dimethyl mercury	593-74-8	09/30/97	04/03/08	10/15/06	GOEV, NIOSH, RTECS.	NA
1052	Dimethyl methylphosphonate; (DMMP)	756-79-6	01/04/99		10/15/06		NA
1053	Dimethyl phosphorochloridothioate	2524-03-0			10/15/06		NA
1054	Dimethyl siloxane; (Dimethylpolysiloxane; Syltherm XLT; Syltherm 800; Silicone 360)	63148-62-9	07/09/97		01/10/08	RTECS	NA
1055	**Dimethyl sulfate**	**77-78-1**	08/21/96	02/01/08	08/14/07	EPA.	4
1056	**Dimethyl sulfide; (2-Thiopropane)**	**75-18-3**	08/21/96		08/14/07	GOEV, AIHA.	2
1057	Dimethyl sulfone	67-71-0			10/15/06		NA
1058	Dimethyl sulfoxide; (DMSO)	67-68-5	08/21/96		10/15/06		2
1059	Dimethyl(1-phenylethyl)benzene	40766-31-2	01/04/99		10/15/06		NA
1060	Dimethyl(polysiloxane); (Polydimethylsiloxane, silanol terminated; Dimethylsiloxane, poly, hydroxy end-blocked)	70131-67-8			04/20/07		NA
1061	Dimethyl-1,3-dioxolane-4-methanol, 2,2-	100-79-8			10/15/06		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1062	Dimethyl-1,3-propanediamine, N,N-; (1-Amino-3-dimethylaminopropane)	109-55-7	AJQ100	102.21	ppm	Y	4.18	C5.H14.N2
1063	Dimethyl-1-butanamine, N,N-	927-62-8	BRB300	101.22	mg/m3	Y	4.14	C6.H15.N
1064	Dimethyl-2-pentene, (E)-3,4-	4914-92-5	N.I.S. etc.	98.17	ppm	N	4.01	C7.H14
1065	Dimethyl-3-nitrobenzene, 1,2-	83-41-0	N.I.S.	151.16	mg/m3	N	6.18	C8.H9.N.O2
1066	Dimethyl-3-pentanone, 2,4-	565-80-0	DTI600	114.21	ppm	N	4.67	C7.H14.O
1067	Dimethyl-5-phenylphenazinium chloride, 3,7-diamino-2,8-; (Safranine; Gossypimine)	477-73-6	GJI400	350.88	mg/m3	N	14.34	C20.H19.N4..Cl
1068	Dimethylacetamide, N,N-	127-19-5	DOO800	87.14	ppm	Y	3.56	C4.H9.N.O
1069	Dimethylacrylamide, N,N-	2680-03-7	DOP800	99.15	mg/m3	Y	4.05	C5.H9.N.O
1070	**Dimethylamine**	**124-40-3**	DOQ800	45.10	ppm	Y	1.84	(C.H3)2..N.H
1071	Dimethylamino)benzaldehyde, p-(	100-10-7	DOT400	149.21	mg/m3	N	6.10	C9.H11.N.O
1072	Dimethylamino)phenyl)azo)benzenesulfonic acid, sodium salt, P-((P-(; (Methyl orange,sodium salt)	547-58-0	MND600	327.36	mg/m3	N	13.38	C14.H14.N3.O3.S..Na
1073	Dimethylaminoazobenzene, 4-	60-11-7	DOT300	225.32	mg/m3	N	9.21	C14.H15.N3
1074	Dimethylaminoethanol, 2-	108-01-0	DOY800	89.16	ppm	Y	3.64	C4.H11.N.O
1075	Dimethylaminoethyl chloride hydrochloride, 2-	4584-46-7	DRC000	144.06	mg/m3	Y	5.89	C4.H10.Cl.N..Cl.h

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1062	Dimethyl-1,3-propanediamine, N,N-; (1-Amino-3-dimethylaminopropane)	109-55-7	L	-70	123	10	30	0.8100 @ 30C	3	
1063	Dimethyl-1-butanamine, N,N-	927-62-8	L	<-60	95			721	2	
1064	Dimethyl-2-pentene, (E)-3,4-	4914-92-5	L	-124.2	91.5			0.7124	3	
1065	Dimethyl-3-nitrobenzene, 1,2-	83-41-0	L	15	240			1.1402 @ 20C		
1066	Dimethyl-3-pentanone, 2,4-	565-80-0	L	-69	125.4			0.8108	3	
1067	Dimethyl-5-phenylphenazinium chloride, 3,7-diamino-2,8-; (Safranine; Gossypimine)	477-73-6	S						3	
1068	Dimethylacetamide, N,N-	127-19-5	L	-20	165	1.3	25	0.943 @ 20C	2	17000
1069	Dimethylacrylamide, N,N-	2680-03-7							3	
1070	**Dimethylamine**	**124-40-3**	G	-92.2	6.7	>760		0.680 gas	3	28000
1071	Dimethylamino)benzaldehyde, p-(	100-10-7	S	74	176-177 @17mm				2	
1072	Dimethylamino)phenyl)azo)benzenesulfonic acid, sodium salt, P-((P-(; (Methyl orange,sodium salt)	547-58-0	S	>300	dec.				3	
1073	Dimethylaminoazobenzene, 4-	60-11-7	S	115					3	
1074	Dimethylaminoethanol, 2-	108-01-0	L	-59	135			0.8866 @ 20C	3	16000
1075	Dimethylaminoethyl chloride hydrochloride, 2-	4584-46-7	S	201					3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1062	Dimethyl-1,3-propanediamine, N,N-; (1-Amino-3-dimethylaminopropane)	109-55-7			04/20/07		3
1063	Dimethyl-1-butanamine, N,N-	927-62-8			04/20/07		NA
1064	Dimethyl-2-pentene, (E)-3,4-	4914-92-5	03/01/00		10/15/06		NA
1065	Dimethyl-3-nitrobenzene, 1,2-	83-41-0			10/15/06		NA
1066	Dimethyl-3-pentanone, 2,4-	565-80-0			10/15/06		NA
1067	Dimethyl-5-phenylphenazinium chloride, 3,7-diamino-2,8-; (Safranine; Gossypimine)	477-73-6			10/15/06		NA
1068	Dimethylacetamide, N,N-	127-19-5			10/15/06		2
1069	Dimethylacrylamide, N,N-	2680-03-7			10/15/06		NA
1070	**Dimethylamine**	**124-40-3**	10/31/92	07/18/08	06/30/08	GOEV, EPA.	3
1071	Dimethylamino)benzaldehyde, p-(	100-10-7			10/15/06		NA
1072	Dimethylamino)phenyl)azo)benzenesulfonic acid, sodium salt, P-((P-(; (Methyl orange,sodium salt)	547-58-0			10/15/06		NA
1073	Dimethylaminoazobenzene, 4-	60-11-7	09/30/97		10/15/06		NA
1074	Dimethylaminoethanol, 2-	108-01-0			10/15/06		3
1075	Dimethylaminoethyl chloride hydrochloride, 2-	4584-46-7			04/20/07		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1076	Dimethylammonium N,N-dimethylcarbamate	4137-10-4	N.I.S. etc.	134.18	mg/m3	Y	5.48	C5.H14.N2.O2
1077	Dimethylaniline, N,N-	121-69-7	DQF800	121.20	ppm	Y	4.95	C8.H11.N
1078	Dimethylbenzidene 3,3'-; (o-Tolidine)	119-93-7	TGJ750	212.32	mg/m3	Y	8.68	C14.H16.N2
1079	Dimethylbutyric acid, 2,2-	595-37-9	N.I.S., etc.	116.16	mg/m3	Y	4.75	C2.H5.C(C.H3)2.C.O2.H
1080	**Dimethylchlorosilane; (Chlorodimethylsilane)**	**1066-35-9**	N.I.S.	94.62	ppm	N	3.87	C2.H7.Cl.Si
1081	Dimethylcyclohexane, cis-1,4-	624-29-3	N.I.S.	112.22	ppm	N	4.59	C6.H10.(C.H3)2
1082	Dimethyldecane, 2,2-	17302-37-3	N.I.S. etc.	170.34	ppm	Y	6.96	C12.H26
1083	**Dimethyldichlorosilane**	**75-78-5**	DFE259	129.06	ppm	Y	5.27	C2.H6.Cl2.Si
1084	Dimethyldicyclopentadiene	26472-00-4	N.I.S.	160.28	mg/m3	N	6.55	C12.H16
1085	Dimethyldimethoxysilane	1112-39-6	DOE100	120.25	mg/m3	Y	4.91	C4.H12.O2.Si
1086	Dimethylethyl hydroperoxide, 1,1-; (tert-Butylhydroperoxide)	75-91-2	BRM250	90.14	ppm	Y	3.68	C.H3.C.O.O.H
1087	**Dimethylformamide, N,N-**	**68-12-2**	DSB000	73.11	ppm	Y	2.99	H.C.O.N..(C.H3)2
1088	Dimethylheptane, 2,2-	1071-26-7	N.I.S. etc.	128.26	ppm	Y	5.24	C9.H2.0
1089	Dimethylhexane, 3,3-	563-16-6	N.I.S. etc.	114.23	ppm	Y	4.67	C8.H18

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1076	Dimethylammonium N,N-dimethylcarbamate	4137-10-4	L		60-61			1.05	3	
1077	Dimethylaniline, N,N-	121-69-7	L	2.5	193.1	0.7	25	0.9557 @ 20C	3	
1078	Dimethylbenzidene 3,3'-; (o-Tolidine)	119-93-7	S	129-131					2	
1079	Dimethylbutyric acid, 2,2-	595-37-9	L	-14	94-96			0.928	2	
1080	**Dimethylchlorosilane; (Chlorodimethylsilane)**	**1066-35-9**	L	-111	34.6			0.852		
1081	Dimethylcyclohexane, cis-1,4-	624-29-3	L	-87.4	124.4			0.7829	3	
1082	Dimethyldecane, 2,2-	17302-37-3								5950
1083	**Dimethyldichlorosilane**	**75-78-5**	L	-86	70	139	25	1.06	3	34000
1084	Dimethyldicyclopentadiene	26472-00-4	L	-51	200	7.5	47.8	0.941		10000
1085	Dimethyldimethoxysilane	1112-39-6	L		81.4			0.864	1	
1086	Dimethylethyl hydroperoxide, 1,1-; (tert-Butylhydroperoxide)	75-91-2	L	-8	89dec	3.07	20	0.86	2	
1087	**Dimethylformamide, N,N-**	**68-12-2**	L	-61.1	152.8	4	25	0.945	3	22000
1088	Dimethylheptane, 2,2-	1071-26-7	L	-113	132.7			0.7105 @ 20C		8000
1089	Dimethylhexane, 3,3-	563-16-6	L	-126.1	111.9			0.7100 @ 20C		9000

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1076	Dimethylammonium N,N-dimethylcarbamate	4137-10-4			04/20/07		NA
1077	Dimethylaniline, N,N-	121-69-7			10/15/06		3
1078	Dimethylbenzidene 3,3'-; (o-Tolidine)	119-93-7	08/21/96		10/15/06		NA
1079	Dimethylbutyric acid, 2,2-	595-37-9			04/20/07		NA
1080	**Dimethylchlorosilane; (Chlorodimethylsilane)**	**1066-35-9**	07/02/08	07/18/08	07/02/08	ChemFinder, EPA.	
1081	Dimethylcyclohexane, cis-1,4-	624-29-3			04/20/07		2
1082	Dimethyldecane, 2,2-	17302-37-3			10/15/06		NA
1083	**Dimethyldichlorosilane**	**75-78-5**	08/21/96	02/01/08	08/14/07	EPA.	3
1084	Dimethyldicyclopentadiene	26472-00-4	04/15/07		04/20/07		NA
1085	Dimethyldimethoxysilane	1112-39-6	04/15/07		04/20/07		NA
1086	Dimethylethyl hydroperoxide, 1,1-; (tert-Butylhydroperoxide)	75-91-2	03/01/00		10/15/06		4
1087	**Dimethylformamide, N,N-**	**68-12-2**	10/31/92	02/01/08	12/20/07	AIHA, EPA	2
1088	Dimethylheptane, 2,2-	1071-26-7			10/15/06		NA
1089	Dimethylhexane, 3,3-	563-16-6			10/15/06		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1090	**Dimethylhydrazine, 1,1-**	**57-14-7**	DSF400	60.12	ppm	Y	2.46	(C.H3)2..N.N..H2
1091	**Dimethylhydrazine, 1,2-**	**540-73-8**	DSF600	60.12	ppm	N	2.46	C2.H8.N2
1092	Dimethylimidizole, 1,2-	1739-84-0	N.I.S.	96.15	mg/m3	Y	3.93	C5.H8.N2
1093	Dimethylisopropylamin, n,n-	996-35-0	N.I.S.	87.16	mg/m3	N	3.56	C5.H13.N
1094	Dimethylnonane, 4,5.	17302-23-7	N.I.S.	156.31	ppm	Y	6.39	C11.H24
1095	Dimethyloctane, 3,5-	15869-93-9	N.I.S.	142.28	ppm	N	5.82	C10.H22
1096	Dimethylphenol, 2,4-; (2,4-Xylenol)	105-67-9	XKJ500	122.18	mg/m3	N	4.99	C8.H10.O
1097	Dimethylphenol, 2,6-; (2,6-Xylenol)	576-26-1	XLA000	122.18	mg/m3	Y	4.99	C8.H10.O
1098	Dimethylphthalate	131-11-3	DTR200	194.20	mg/m3	N	7.94	C6.H4.(C.O.O.C.H3)2
1099	Dimethylpolysilane; (Poly(dimethylsilane))	28883-63-8	N.I.S., etc.		mg/m3	Y		(C2.H6.Si)x
1100	Dimethyl-p-phenylenediamine, N,N-	99-98-9	DTL600	136.22	mg/m3	N	5.57	C8.H12.N2
1101	Dimethylpropane, 2,2-; (Neopentane)	463-82-1	NCH000	72.17	ppm	Y	2.95	C5.H12
1102	Dimethylpyridine, 2,4-; (2,4-Lutidine)	108-47-4	LIY990	107.17	ppm	Y	4.38	C7.H9.N
1103	Dimethyltetramethoxydisiloxane, 1,3-	18186-97-5	N.I.S. etc.	226.37	mg/m3	N	9.25	C6.H18.O5..Si2

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1090	**Dimethylhydrazine, 1,1-**	**57-14-7**	L	-57.8	63.9	157	25	0.782	3	20000
1091	**Dimethylhydrazine, 1,2-**	**540-73-8**	L	-9	81			0.8274	3	
1092	Dimethylimidizole, 1,2-	1739-84-0	S	37-39	204	1	20	1.084		
1093	Dimethylisopropylamin, n,n-	996-35-0								
1094	Dimethylnonane, 4,5.	17302-23-7	L							6470
1095	Dimethyloctane, 3,5-	15869-93-9	L		159.4			0.7328		7000
1096	Dimethylphenol, 2,4-; (2,4-Xylenol)	105-67-9	L	26	210.8	0.102	25	0.9650 @ 20C	3	
1097	Dimethylphenol, 2,6-; (2,6-Xylenol)	576-26-1	S	48-49	203	0.274	25		3	
1098	Dimethylphthalate	131-11-3	L	5.6	283.9	0.01	20	1.189	2	9000
1099	Dimethylpolysilane; (Poly(dimethylsilane))	28883-63-8	S							
1100	Dimethyl-p-phenylenediamine, N,N-	99-98-9	S/L	41	262	0.0001	25	1.036 @ 20C	3	
1101	Dimethylpropane, 2,2-; (Neopentane)	463-82-1	G/L	-16.6	9.5	1290	25	0.613 @ 0C	3	14000
1102	Dimethylpyridine, 2,4-; (2,4-Lutidine)	108-47-4	L	-6.1	145.7	5.65	25	0.9226 @ 25C	3	
1103	Dimethyltetramethoxydisiloxane, 1,3-	18186-97-5	S							

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1090	**Dimethylhydrazine, 1,1-**	**57-14-7**	10/31/92	02/01/08	08/14/07	GOEV, EPA.	4
1091	**Dimethylhydrazine, 1,2-**	**540-73-8**	09/30/97	07/18/08	08/14/07	GOEV, EPA.	NA
1092	Dimethylimidizole, 1,2-	1739-84-0	04/15/07		04/20/07		NA
1093	Dimethylisopropylamin, n,n-	996-35-0	04/15/07		04/20/07		NA
1094	Dimethylnonane, 4,5.	17302-23-7			10/15/06		NA
1095	Dimethyloctane, 3,5-	15869-93-9			10/15/06		NA
1096	Dimethylphenol, 2,4-; (2,4-Xylenol)	105-67-9			10/15/06		NA
1097	Dimethylphenol, 2,6-; (2,6-Xylenol)	576-26-1			10/15/06		NA
1098	Dimethylphthalate	131-11-3	08/21/96		10/15/06		1
1099	Dimethylpolysilane; (Poly(dimethylsilane))	28883-63-8			04/20/07		NA
1100	Dimethyl-p-phenylenediamine, N,N-	99-98-9			10/15/06		NA
1101	Dimethylpropane, 2,2-; (Neopentane)	463-82-1			10/15/06		2
1102	Dimethylpyridine, 2,4-; (2,4-Lutidine)	108-47-4			10/15/06		NA
1103	Dimethyltetramethoxydisiloxane, 1,3-	18186-97-5			10/15/06		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1104	Dimetilan	644-64-4	DQZ000	240.30	mg/m3	N	9.82	C10.H16.N4.O3
1105	Di-N-amylamine	2050-92-2	DCH200	157.34	ppm	Y	6.43	C10.H23.N
1106	Di-n-butylamine	111-92-2	DDT800	129.28	ppm	Y	5.28	(C4.H9)2..N.H
1107	Dinitraniline orange; (Hansa orange RN)	3468-63-1	DVB800	338.30	mg/m3	N	13.83	C16.H10.N4.O5
1108	Dinitroaniline, 2,4-	97-02-9	DUP600	183.14	mg/m3	Y	7.49	C6.H5.N3.O4
1109	Dinitrobenzene, m-	99-65-0	DUQ200	168.12	mg/m3	N	6.87	C6.H4.N2.O4
1110	Dinitrobenzene, o-	528-29-0	DUQ400	168.12	mg/m3	N	6.87	C6.H4.N2.O4
1111	Dinitrobenzene, p-	100-25-4	DUQ600	168.12	mg/m3	N	6.87	C6.H4.N2.O4
1112	Dinitro-o-cresol, 4,6-	534-52-1	DUS700	198.15	mg/m3	Y	8.10	C7.H6.N2.O5
1113	Dinitrophenol	25550-58-7	DUY600	184.12	mg/m3	Y	7.53	C6.H4.N2.O5
1114	Dinitrophenol, 2,3-	66-56-8	DUY900	184.12	mg/m3	Y	7.53	C6.H4.N2.O5
1115	Dinitrophenol, 2,4-	51-28-5	DUZ000	184.12	mg/m3	Y	7.53	C6.H4.N2.O5
1116	Dinitrophenol, 2,6-	573-56-8	DVA200	184.12	mg/m3	Y	7.53	C6.H4.N2.O5
1117	Dinitro-p-toluidine, 2,6-; (4-Amino-3,5-dinitrotoluene)	6393-42-6	DVI100	197.17	mg/m3	N	8.06	C7.H7.N3.O4

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1104	Dimetilan	644-64-4	S	68-71	200-210 @13mm	0.000097	20		3	
1105	Di-N-amylamine	2050-92-2	L	-7.85	202.5	0.153	20	0.777	3	
1106	Di-n-butylamine	111-92-2	L	-61.9	159.6	2		0.7613	3	11000
1107	Dinitraniline orange; (Hansa orange RN)	3468-63-1							D	
1108	Dinitroaniline, 2,4-	97-02-9	S	188	[56.7]	5.94E-07	25	1.615	3	
1109	Dinitrobenzene, m-	99-65-0	S	89	291			1.546	3	
1110	Dinitrobenzene, o-	528-29-0	S	118	319			1.571 @ 0C	3	18000
1111	Dinitrobenzene, p-	100-25-4	S	173	299	<1	20	1.625 @ 18C	3	18000
1112	Dinitro-o-cresol, 4,6-	534-52-1	S	85.8					3	
1113	Dinitrophenol	25550-58-7	S						3	
1114	Dinitrophenol, 2,3-	66-56-8	S	144				1.681	3	
1115	Dinitrophenol, 2,4-	51-28-5	S	112				1.683	3	
1116	Dinitrophenol, 2,6-	573-56-8	S	63					3	
1117	Dinitro-p-toluidine, 2,6-; (4-Amino-3,5-dinitrotoluene)	6393-42-6	S	171-172					3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1104	Dimetilan	644-64-4			10/15/06		NA
1105	Di-N-amylamine	2050-92-2			10/15/06		3
1106	Di-n-butylamine	111-92-2	09/30/97		04/20/07		3
1107	Dinitraniline orange; (Hansa orange RN)	3468-63-1	09/30/97		10/15/06		NA
1108	Dinitroaniline, 2,4-	97-02-9			10/15/06		2
1109	Dinitrobenzene, m-	99-65-0	09/30/97		10/15/06		NA
1110	Dinitrobenzene, o-	528-29-0			10/15/06		3
1111	Dinitrobenzene, p-	100-25-4			10/15/06		NA
1112	Dinitro-o-cresol, 4,6-	534-52-1	09/30/97		10/15/06		NA
1113	Dinitrophenol	25550-58-7			10/15/06		NA
1114	Dinitrophenol, 2,3-	66-56-8	08/21/96		10/15/06		NA
1115	Dinitrophenol, 2,4-	51-28-5	08/21/96		10/15/06		NA
1116	Dinitrophenol, 2,6-	573-56-8			10/15/06		NA
1117	Dinitro-p-toluidine, 2,6-; (4-Amino-3,5-dinitrotoluene)	6393-42-6	08/07/98		10/15/06		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1118	Dinitrosopiperazine; (Piperazine, 1,4-dinitroso-)	140-79-4	DVF200	144.16	mg/m3	N	5.89	C4.H8.N4.O2
1119	Dinitrotoluene	25321-14-6	DVG600	182.15	mg/m3	N	7.44	C6.H3.C.H3.(N.O2)2
1120	Dinitrotoluene, 2,4-	121-14-2	DVH000	182.15	mg/m3	N	7.44	C7.H6.N2.O4
1121	Dinitrotoluene, 2,6-	606-20-2	DVH400	182.15	mg/m3	N	7.44	C7.H6.N2.O4
1122	Dinitrotoluene, 3,4-	610-39-9	DVH600	182.15	mg/m3	Y	7.44	C7.H6.N2.O4
1123	Dinoseb; (2-sec-Butyl-4,6-dinitrophenol)	88-85-7	BRE500	240.24	mg/m3	N	9.82	C10.H12.N2.O5
1124	Dinoterb; (2-(1,1-Dimethylethyl)-4,6-dinitrophenol)	1420-07-1	DRV200	240.24	mg/m3	N	9.82	C10.H12.N2.O5
1125	Dioctyl phthalate, n-	117-84-0	DVL600	390.62	mg/m3	Y	15.97	C24.H38.O4
1126	Dioctyl sebacate; (Bis(2-ethylhexyl) sebacate)	122-62-3	BJS250	426.76	mg/m3	N	17.44	C26.H50.O4
1127	Dioctyl sodium sulfosuccinate; (Di-(2-ethylhexyl) sodium sulfosuccinate)	577-11-7	DJL000	445.63	mg/m3	Y	18.21	C20.H38.O7.S.Na
1128	**Dioxane, 1,4-**	**123-91-1**	DVQ000	88.11	ppm	Y	3.60	(C.H2)4.O2
1129	Dioxathion	78-34-2	DVQ709	456.56	mg/m3	N	18.66	C12.H26.O6.P2.S4
1130	Dioxin; (TCDD; 2,3,7,8-tetrachlorodibenzo-p-dioxin)	1746-01-6	TAI000	321.96	mg/m3	Y	13.16	C12.H4.Cl4.O2
1131	Dioxolane, 1,3-	646-06-0	DVR800	74.09	ppm	Y	3.03	C3.H6.O2

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1118	Dinitrosopiperazine; (Piperazine, 1,4-dinitroso-)	140-79-4	S	158					3	
1119	Dinitrotoluene	25321-14-6	S	70	300	1	20		3	
1120	Dinitrotoluene, 2,4-	121-14-2	S	69.5	300			1.521	3	14000
1121	Dinitrotoluene, 2,6-	606-20-2	S?						3	14000
1122	Dinitrotoluene, 3,4-	610-39-9	S	61				1.2594 @ 111C	3	
1123	Dinoseb; (2-sec-Butyl-4,6-dinitrophenol)	88-85-7	S						3	
1124	Dinoterb; (2-(1,1-Dimethylethyl)-4,6-dinitrophenol)	1420-07-1	S	125.5-126.5					3	
1125	Dioctyl phthalate, n-	117-84-0	S						2	
1126	Dioctyl sebacate; (Bis(2-ethylhexyl) sebacate)	122-62-3	L	-48	256 @ 5 mm			0.914 @ 20C	2	
1127	Dioctyl sodium sulfosuccinate; (Di-(2-ethylhexyl) sodium sulfosuccinate)	577-11-7	S	155	dec			1.1 @ 20C	3	
1128	**Dioxane, 1,4-**	**123-91-1**	L	11.7	101.1	29	20	1.0353	3	17000
1129	Dioxathion	78-34-2	L	-20	60-68 @ 0.5 mm			1.257 @ 26C	3	
1130	Dioxin; (TCDD; 2,3,7,8-tetrachlorodibenzo-p-dioxin)	1746-01-6	S	305					3	
1131	Dioxolane, 1,3-	646-06-0	L	-95	78			1.066	2	21000

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1118	Dinitrosopiperazine; (Piperazine, 1,4-dinitroso-)	140-79-4			10/15/06		NA
1119	Dinitrotoluene	25321-14-6	08/21/96		10/15/06		3
1120	Dinitrotoluene, 2,4-	121-14-2	08/21/96		10/15/06		3
1121	Dinitrotoluene, 2,6-	606-20-2	08/21/96		10/15/06		NA
1122	Dinitrotoluene, 3,4-	610-39-9			10/15/06		NA
1123	Dinoseb; (2-sec-Butyl-4,6-dinitrophenol)	88-85-7	08/21/96		10/15/06		NA
1124	Dinoterb; (2-(1,1-Dimethylethyl)-4,6-dinitrophenol)	1420-07-1			10/15/06		NA
1125	Dioctyl phthalate, n-	117-84-0	08/07/98		10/15/06		1
1126	Dioctyl sebacate; (Bis(2-ethylhexyl) sebacate)	122-62-3			10/15/06		NA
1127	Dioctyl sodium sulfosuccinate; (Di-(2-ethylhexyl) sodium sulfosuccinate)	577-11-7	03/01/00		10/15/06		NA
1128	**Dioxane, 1,4-**	**123-91-1**	08/21/96	07/18/08	08/14/07	EPA.	2
1129	Dioxathion	78-34-2			10/15/06		NA
1130	Dioxin; (TCDD; 2,3,7,8-tetrachlorodibenzo-p-dioxin)	1746-01-6	09/30/97		10/15/06		NA
1131	Dioxolane, 1,3-	646-06-0	01/04/99		10/15/06		1

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1132	Dipentaerythritol; (Dipentek)	126-58-9	N.I.S.	254.26	mg/m3	N	10.39	C10.H22.O7
1133	Dipentyl pentylphosphonate	6418-56-0	N.I.S.	292.45	mg/m3	N	11.95	C15.H33.O3.P
1134	Diphacinone; (Diphenadione)	82-66-6	DVV600	340.39	mg/m3	N	13.91	C23.H16.O3
1135	Diphenyl mercury	587-85-9	DWD800	354.81	mg/m3	Y	14.50	C12.H10.Hg
1136	Diphenyl o-cresol phosphate; (Diphenyl cresol phosphate)	26444-49-5	TGY750	340.31	mg/m3	N	13.91	C19.H17.O4.P
1137	**Diphenyl; (Biphenyl)**	**92-52-4**	BGE000	154.22	ppm	Y	6.30	(C6.H5)2
1138	Diphenylamine	122-39-4	DVX800	169.24	mg/m3	N	6.92	C12.H11.N
1139	**Diphenylchloroarsine; (Chlorodiphenylarsine)**	**712-48-1**	CGN000	264.59	mg/m3	Y	10.81	C12.H10.As.Cl
1140	**Diphenyldichlorosilane**	**80-10-4**	DFF000	253.21	ppm	Y	10.35	C12.H10.Cl2.Si
1141	Diphenylguanidine, 1,3-	102-06-7	DWC600	211.29	mg/m3	N	8.64	C13.H13.N3
1142	Diphenylhydrazine, 1,2-	122-66-7	HHG000	184.26	mg/m3	N	7.53	C12.H12.N2
1143	Diphenylmethane	101-81-5	N.I.S.	168.25	mg/m3	Y	6.88	C13.H12
1144	Diphenylnitrosamine	86-30-6	DWI000	198.24	mg/m3	Y	8.10	C12.H10.N2.O
1145	Diphenyloxazole, 2,5-	92-71-7	DWI200	221.27	mg/m3	N	9.04	C15.H11.N.O

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1132	Dipentaerythritol; (Dipentek)	126-58-9	S	212-220				1.33		
1133	Dipentyl pentylphosphonate	6418-56-0	S							
1134	Diphacinone; (Diphenadione)	82-66-6	S	147		13.7 nPa	25	1.281 @ 25C	3	
1135	Diphenyl mercury	587-85-9	S	122 subl				2.318	3	
1136	Diphenyl o-cresol phosphate; (Diphenyl cresol phosphate)	26444-49-5	L	-38	390			1.208	2	
1137	**Diphenyl; (Biphenyl)**	**92-52-4**	S	68.9	253.9	0.158		0.991	3	6000
1138	Diphenylamine	122-39-4	S	52.9	302	1	108	1.16	3	
1139	**Diphenylchloroarsine; (Chlorodiphenylarsine)**	**712-48-1**	S	44	330 dec	0.00049	20	1.333 @ 40C	3	
1140	**Diphenyldichlorosilane**	**80-10-4**	L	-20	305			1.204	3	
1141	Diphenylguanidine, 1,3-	102-06-7	S	150	170 dec			1.115	3	
1142	Diphenylhydrazine, 1,2-	122-66-7	S	131	dec			1.58	3	
1143	Diphenylmethane	101-81-5	L-S	25.9	264.5	1	76	1.008		
1144	Diphenylnitrosamine	86-30-6	S	66.5				1.23	3	
1145	Diphenyloxazole, 2,5-	92-71-7	S	74					2	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1132	Dipentaerythritol; (Dipentek)	126-58-9			10/15/06		NA
1133	Dipentyl pentylphosphonate	6418-56-0	08/07/98		10/15/06		NA
1134	Diphacinone; (Diphenadione)	82-66-6			10/15/06		NA
1135	Diphenyl mercury	587-85-9	08/21/96	04/03/08	10/15/06	GOEV, NIOSH, RTECS.	NA
1136	Diphenyl o-cresol phosphate; (Diphenyl cresol phosphate)	26444-49-5	07/16/07		07/16/07	RTECS	1
1137	**Diphenyl; (Biphenyl)**	**92-52-4**	08/21/96	02/01/08	12/28/07	GOEV, EPA, NIOSH.	1
1138	Diphenylamine	122-39-4	08/21/96		10/15/06		2
1139	**Diphenylchloroarsine; (Chlorodiphenylarsine)**	**712-48-1**	12/31/07	07/18/08	12/31/07	EPA, SAX, RTECS	
1140	**Diphenyldichlorosilane**	**80-10-4**	07/03/08	07/07/08	07/02/08	EPA, HSDB.	3
1141	Diphenylguanidine, 1,3-	102-06-7	08/07/98		10/15/06		NA
1142	Diphenylhydrazine, 1,2-	122-66-7	08/21/96		10/15/06		NA
1143	Diphenylmethane	101-81-5			10/15/06		1
1144	Diphenylnitrosamine	86-30-6			10/15/06		NA
1145	Diphenyloxazole, 2,5-	92-71-7	07/09/97		10/15/06		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1146	Dipicolinic acid; (2,6-Pyridinedicarboxylic acid)	499-83-2	N.I.S.	167.12	mg/m3	N	6.83	C7.H5.N.O4
1147	Dipotassium cadmium oxide	z-0013	N.I.S. etc.	222.61	mg/m3	N	9.10	K2.Cd.O2
1148	Dipotassium dihydrogen silicate	z-0014	N.I.S. etc.	172.28	mg/m3	N	7.04	K2.H2.Si.O2
1149	Dipotassium metasilicate	10006-28-7	N.I.S.	154.26	mg/m3	N	6.30	K2.Si.O3
1150	Dipropyl ketone; (4-Heptanone)	123-19-3	DWT600	114.21	ppm	Y	4.67	C7.H14.O
1151	Dipropylamine	142-84-7	DWR000	101.22	mg/m3	N	4.14	C6.H15.N
1152	Dipropylene glycol methyl ether	34590-94-8	DWT200	148.23	ppm	Y	6.06	C7.H16.O3
1153	Direct Black 38; (Apomine black GX)	1937-37-7	AQP000	781.78	mg/m3	Y	31.95	C34.H25.N9.O7.S2..2Na
1154	Di-sec-octylphthalate	117-81-7	DVL700	390.62	mg/m3	Y	15.97	C22.H38.O4
1155	Disodium (2-ethylhexyl)phosphate	15505-13-2	N.I.S.	155.00	mg/m3	N	6.34	C8.H19.O4.P..2Na
1156	Disodium 3,6-endoxohexahydrophthalate	129-67-9	DXD000	230.14	mg/m3	N	9.41	C8.H8.O5..2Na
1157	Disodium butylphosphate	64114-42-7	N.I.S.	200.00	mg/m3	N	8.17	C4.H11.04.P..2Na
1158	Disodium cadmium oxide	z-0016	N.I.S. etc.	190.39	mg/m3	N	7.78	Na2.Cd.O2
1159	Disodium dihydrogen silicate	z-0017	N.I.S. etc.	140.08	mg/m3	N	5.73	[Unknown]

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1146	Dipicolinic acid; (2,6-Pyridinedicarboxylic acid)	499-83-2	S	252						
1147	Dipotassium cadmium oxide	z-0013	S							
1148	Dipotassium dihydrogen silicate	z-0014	S							
1149	Dipotassium metasilicate	10006-28-7	S							
1150	Dipropyl ketone; (4-Heptanone)	123-19-3	L	-32.6	144	5.2	20	0.815	3	11000
1151	Dipropylamine	142-84-7	L	-63	110			0.741	3	
1152	Dipropylene glycol methyl ether	34590-94-8	L		190			0.951	2	11000
1153	Direct Black 38; (Apomine black GX)	1937-37-7	S						3	
1154	Di-sec-octylphthalate	117-81-7	L	-46	231 @ 5 mm			0.986	3	1000
1155	Disodium (2-ethylhexyl)phosphate	15505-13-2								
1156	Disodium 3,6-endoxohexahydrophthalate	129-67-9	S	144				1.431	3	
1157	Disodium butylphosphate	64114-42-7								
1158	Disodium cadmium oxide	z-0016	S							
1159	Disodium dihydrogen silicate	z-0017	S							

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1146	Dipicolinic acid; (2,6-Pyridinedicarboxylic acid)	499-83-2			10/15/06		NA
1147	Dipotassium cadmium oxide	z-0013			10/15/06		
1148	Dipotassium dihydrogen silicate	z-0014			10/15/06		
1149	Dipotassium metasilicate	10006-28-7			10/15/06		NA
1150	Dipropyl ketone; (4-Heptanone)	123-19-3			10/15/06		1
1151	Dipropylamine	142-84-7	11/15/96		10/15/06		3
1152	Dipropylene glycol methyl ether	34590-94-8	08/07/98	02/22/08	02/22/08	GOEV, NIOSH, RTECS.	2
1153	Direct Black 38; (Apomine black GX)	1937-37-7			10/15/06		NA
1154	Di-sec-octylphthalate	117-81-7	08/21/96		10/15/06		NA
1155	Disodium (2-ethylhexyl)phosphate	15505-13-2			08/24/07	Intertox.	
1156	Disodium 3,6-endoxohexahydrophthalate	129-67-9			10/15/06		NA
1157	Disodium butylphosphate	64114-42-7			10/15/06		NA
1158	Disodium cadmium oxide	z-0016			10/15/06		
1159	Disodium dihydrogen silicate	z-0017			10/15/06		

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1160	Disodium ethylenediaminediacetate (S and U isomers)	38011-25-5	N.I.S.	220.10	mg/m3	N	9.00	C6.H12.N2.O4..2Na
1161	Disodium hexafluorosilicate (2-)	16893-85-9	DXE000	188.07	mg/m3	Y	7.69	F6.Si..2Na
1162	Disodium iminodiacetate	928-72-3	N.I.S.	177.08	ppm	N	7.24	C4.H5.N.O4..2Na
1163	Disulfiram	97-77-8	DXH250	296.56	mg/m3	Y	12.12	C10.H20.N2.S4
1164	Disulfoton	298-04-4	DXH325	274.42	mg/m3	N	11.22	C8.H19.O2.P.S3
1165	Di-tert-butyl dicarbonate	24424-99-5	N.I.S.	218.28	mg/m3	N	8.92	C10.H18.O5
1166	Di-tert-butylhydroquinone, 2,5-	88-58-4	DEC800	222.35	mg/m3	N	9.09	C14.H22.O2
1167	Dithiazanine iodide; (3,3'-Diethylpentamethinethiacyanine iodide)	514-73-8	DJT800	519.51	mg/m3	N	21.23	C23.H24.N2.S2..I
1168	Dithiobiuret	541-53-7	DXL800	135.22	mg/m3	N	5.53	C2.H5.N3.S2
1169	Dithiodiethanol, 2,2-; (Dithiodiglycol)	1892-29-1	DXM600	154.26	mg/m3	N	6.30	C4.H10.O2.S2
1170	Dithioerythritol, 1,4-	6892-68-8	DXN350	154.26	mg/m3	N	6.30	C4.H10.O2.S2
1171	Diurethane dimethacrylate	72869-86-4	N.I.S.	470.56	mg/m3	N	19.23	C23.H38.N2.O8
1172	Divinylbenzene, m-; (m-Vinylstyrene)	108-57-6	DXQ745	130.20	ppm	Y	5.32	C10.H10
1173	Divinylbenzene, mixed isomers; (Vinylstyrene)	1321-74-0	DXQ740	130.20	ppm	Y	5.32	C10.H10

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1160	Disodium ethylenediaminediacetate (S and U isomers)	38011-25-5	S							
1161	Disodium hexafluorosilicate (2-)	16893-85-9	S					2.7	3	
1162	Disodium iminodiacetate	928-72-3	S							33850
1163	Disulfiram	97-77-8	S	70	117			1.3	3	
1164	Disulfoton	298-04-4	S	>-25	132-133 @ 1.5 mm	0.000054	20	1.144 @ 20C	3	
1165	Di-tert-butyl dicarbonate	24424-99-5	L	23	56-57 @ 0.5 mm			0.949		
1166	Di-tert-butylhydroquinone, 2,5-	88-58-4	S	213.5					2	
1167	Dithiazanine iodide; (3,3'-Diethylpentamethinethiacyanine iodide)	514-73-8	S	248		0.00001	25		3	
1168	Dithiobiuret	541-53-7	S	181	dec			1.522 @ 30C	3	
1169	Dithiodiethanol, 2,2-; (Dithiodiglycol)	1892-29-1	L	26	160			1.261	3	
1170	Dithioerythritol, 1,4-	6892-68-8	L						3	
1171	Diurethane dimethacrylate	72869-86-4	S		200			1.11	1	
1172	Divinylbenzene, m-; (m-Vinylstyrene)	108-57-6	L	-87	195-200	0.579	25	0.918	2	11000
1173	Divinylbenzene, mixed isomers; (Vinylstyrene)	1321-74-0	L	-87	195-200	0.579	25	0.918	1	7000

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1160	Disodium ethylenediaminediacetate (S and U isomers)	38011-25-5			10/15/06		NA
1161	Disodium hexafluorosilicate (2-)	16893-85-9			10/15/06		NA
1162	Disodium iminodiacetate	928-72-3			10/15/06		NA
1163	Disulfiram	97-77-8			10/15/06		NA
1164	Disulfoton	298-04-4			10/15/06		NA
1165	Di-tert-butyl dicarbonate	24424-99-5			04/20/07		NA
1166	Di-tert-butylhydroquinone, 2,5-	88-58-4			10/15/06		NA
1167	Dithiazanine iodide; (3,3'-Diethylpentamethinethiacyanine iodide)	514-73-8			10/15/06		NA
1168	Dithiobiuret	541-53-7			10/15/06		NA
1169	Dithiodiethanol, 2,2-; (Dithiodiglycol)	1892-29-1			10/15/06		NA
1170	Dithioerythritol, 1,4-	6892-68-8			10/15/06		NA
1171	Diurethane dimethacrylate	72869-86-4			04/20/07		NA
1172	Divinylbenzene, m-; (m-Vinylstyrene)	108-57-6	08/07/98		10/15/06		NA
1173	Divinylbenzene, mixed isomers; (Vinylstyrene)	1321-74-0	01/04/99		10/15/06		1

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1174	Dodecamethylcyclohexasiloxane	540-97-6	N.I.S.	445.02	mg/m3	N	18.19	C12.H36.O6.Si6
1175	Dodecane	112-40-3	DXT200	170.38	ppm	Y	6.96	C12.H26
1176	Dodecanethiol, 1-; (Dodecyl mercaptan; Lauryl mercaptan)	112-55-0	LBX000	202.44	ppm	N	8.27	C12.H26.S
1177	Dodecen-1-yl)succinic anhydride, (2-; (DDSA)	19780-11-1	N.I.S.	266.38	mg/m3	N	10.89	C16.H26.O3
1178	Dodecenylsuccinic anhydride	25377-73-5	DXV000	266.38	mg/m3	N	10.89	C16.H27.O3
1179	Dodecyl alcohol	112-53-8	DXV600	186.38	mg/m3	Y	7.62	C12.H26.O
1180	Dodecyl methacrylate	142-90-5	DXY200	254.46	ppm	Y	10.40	C16.H30.O2
1181	Dodecylbenzene sulfonic acid; (Laurylbenzenesulfonic acid)	27176-87-0	LBU100	326.54	mg/m3	N	13.35	C18.H30.O3.S
1182	Dodecylphenol, 4- (mixture of isomers)	27193-86-8	DXY600	262.48	mg/m3	N	10.73	C18.H30.O
1183	Dodecylsarcosine sodium salt, N-; (N-laurel sarcosine sodium salt)	7631-98-3	DXZ000	279.45	mg/m3	N	11.42	C13.H30.N.O2.Na
1184	**Dodecyltrichlorosilane**	**4484-72-4**	DYA800	303.81	ppm	Y	12.42	C12.H25.Cl3.Si
1185	Dodenyl succine anhydride; (Tetrapropenylsuccinic anhydride)	26544-38-7	TEC600	266.38	mg/m3	N	10.89	C16H.H26.O3
1186	Dowex 50WX4 (50-400 ion exchange resin)	11113-61-4	N.I.S. etc.	196.04	mg/m3	N	8.01	(Unknown)
1187	Dv methyl ester; (Methyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate)	61898-95-1	N.I.S.	223.09	mg/m3	N	9.12	C9.H12..Cl2.O2

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1174	Dodecamethylcyclohexasiloxane	540-97-6	S							
1175	Dodecane	112-40-3	L	-9.6	216.3	0.135	25	0.749	2	6000
1176	Dodecanethiol, 1-; (Dodecyl mercaptan; Lauryl mercaptan)	112-55-0	L	-7	142-145	0.00853	20	0.8450 @ 20C	3	
1177	Dodecen-1-yl)succinic anhydride, (2-; (DDSA)	19780-11-1	S	41-43	180-182	<1	20			
1178	Dodecenylsuccinic anhydride	25377-73-5	L		180-182 @ 5mm			1.002	3	
1179	Dodecyl alcohol	112-53-8	S	24	145-148	259		0.830-6	2	6000
1180	Dodecyl methacrylate	142-90-5	L	-29	142 @ 4mm	0.0012	20	0.868 @ 20C	1	
1181	Dodecylbenzene sulfonic acid; (Laurylbenzenesulfonic acid)	27176-87-0							2	
1182	Dodecylphenol, 4- (mixture of isomers)	27193-86-8	L/S	66	175			0.93 @ 20C	2	
1183	Dodecylsarcosine sodium salt, N-; (N-laurel sarcosine sodium salt)	7631-98-3	S						3	
1184	**Dodecyltrichlorosilane**	**4484-72-4**	L		288			1.026	3	
1185	Dodenyl succine anhydride; (Tetrapropenylsuccinic anhydride)	26544-38-7	L		350			1.005	2	
1186	Dowex 50WX4 (50-400 ion exchange resin)	11113-61-4	S							
1187	Dv methyl ester; (Methyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate)	61898-95-1	L		64-67 @ 0.2 torr			1.17		

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1174	Dodecamethylcyclohexasiloxane	540-97-6			10/15/06		NA
1175	Dodecane	112-40-3	08/07/98		06/13/07	RTECS	1
1176	Dodecanethiol, 1-; (Dodecyl mercaptan; Lauryl mercaptan)	112-55-0			04/20/07		2
1177	Dodecen-1-yl)succinic anhydride, (2-; (DDSA)	19780-11-1			04/20/07		NA
1178	Dodecenylsuccinic anhydride	25377-73-5			10/15/06		NA
1179	Dodecyl alcohol	112-53-8	08/07/98		10/15/06		3
1180	Dodecyl methacrylate	142-90-5			10/15/06		NA
1181	Dodecylbenzene sulfonic acid; (Laurylbenzenesulfonic acid)	27176-87-0	01/04/99		10/15/06		NA
1182	Dodecylphenol, 4- (mixture of isomers)	27193-86-8			10/15/06		1
1183	Dodecylsarcosine sodium salt, N-; (N-laurel sarcosine sodium salt)	7631-98-3			10/15/06		NA
1184	**Dodecyltrichlorosilane**	**4484-72-4**	07/02/08	07/18/08	07/02/08	EPA, HSDB.	
1185	Dodenyl succine anhydride; (Tetrapropenylsuccinic anhydride)	26544-38-7			04/20/07		NA
1186	Dowex 50WX4 (50-400 ion exchange resin)	11113-61-4			10/15/06		NA
1187	Dv methyl ester; (Methyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate)	61898-95-1			04/20/07		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1188	Dysprosium	7429-91-6	DYG400	162.50	mg/m3	N	6.64	Dy
1189	Dysprosium nickelide	12175-27-8	(DYG400)	221.19	mg/m3	N	9.04	Dy.Ni
1190	Dysprosium nitrate	10143-38-1	DYH100	348.60	mg/m3	N	14.25	Dy.(N.O3)3
1191	Dysprosium oxide; (Dysprosium(III) oxide)	1308-87-8	N.I.S.	373.00	mg/m3	N	15.25	Dy2.O3
1192	Ecolite	z-0018	N.I.S.		mg/m3	N		[Unspecified]
1193	Emetine dihydrochloride, l-	316-42-7	EAN000	553.63	mg/m3	Y	22.63	C29.H40.N2.O4..2(Cl.H)
1194	Endosulfan	115-29-7	EAQ750	406.91	mg/m3	N	16.63	C9.H6.Cl6.O3.S
1195	Endothion	2778-04-3	EAS000	280.25	mg/m3	N	11.45	C9.H13.O6.P.S
1196	Endrin	72-20-8	EAT500	380.90	mg/m3	N	15.57	C12.H8.Cl6O
1197	Epibatadine (nicotine-like)	z-0019	zz BNL input		mg/m3	N		[Unknown]
1198	Epibromohydrin	3132-64-7	BNI000	136.99	mg/m3	N	5.60	C3.H5.Br.O
1199	**Epichlorohydrin**	**106-89-8**	EAZ500	92.53	ppm	Y	3.78	C3.H5.O.Cl
1200	Epinephrine; (Vasotonin; (R)-4-(1-Hydroxy-2-(methylamino)ethyl)-1,2-benzenediol)	51-43-4	VGP000	183.23	mg/m3	N	7.49	C9.H13.N.O3
1201	EPN; (O-Ethyl-O-(4-nitrophenyl) phenylthiophosphonate)	2104-64-5	EBD700	323.32	mg/m3	N	13.21	C14.H14.N.O4.P.S

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1188	Dysprosium	7429-91-6	S	1409	2335			8.54	3	
1189	Dysprosium nickelide	12175-27-8	S						3	
1190	Dysprosium nitrate	10143-38-1	S	88.6					3	
1191	Dysprosium oxide; (Dysprosium(III) oxide)	1308-87-8	S	2408				7.81		
1192	Ecolite	z-0018								
1193	Emetine dihydrochloride, l-	316-42-7	S	255		0.00001	25		3	
1194	Endosulfan	115-29-7	S	106-212				1.745	3	
1195	Endothion	2778-04-3	S	96					3	
1196	Endrin	72-20-8	S	200	dec	<<1	20		3	11000
1197	Epibatadine (nicotine-like)	z-0019	L (?)							
1198	Epibromohydrin	3132-64-7	L	-40	135			1.601	3	
1199	**Epichlorohydrin**	**106-89-8**	L	-47.8	116.7	13	20	1.1761	3	23000
1200	Epinephrine; (Vasotonin; (R)-4-(1-Hydroxy-2-(methylamino)ethyl)-1,2-benzenediol)	51-43-4	S	216					3	
1201	EPN; (O-Ethyl-O-(4-nitrophenyl) phenylthiophosphonate)	2104-64-5	L/S	36	215 @ 5mm	0.126 mPa	25	1.268 @ 25C	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1188	Dysprosium	7429-91-6			04/20/07		NA
1189	Dysprosium nickelide	12175-27-8	08/07/98		10/15/06		NA
1190	Dysprosium nitrate	10143-38-1	08/07/98		10/15/06		NA
1191	Dysprosium oxide; (Dysprosium(III) oxide)	1308-87-8			10/15/06		NA
1192	Ecolite	z-0018	08/07/98		10/15/06		
1193	Emetine dihydrochloride, l-	316-42-7			10/15/06		NA
1194	Endosulfan	115-29-7	08/21/96		10/15/06		NA
1195	Endothion	2778-04-3			10/15/06		NA
1196	Endrin	72-20-8	08/21/96		10/15/06		NA
1197	Epibatadine (nicotine-like)	z-0019	07/09/97		10/15/06		
1198	Epibromohydrin	3132-64-7			10/15/06		NA
1199	**Epichlorohydrin**	**106-89-8**	10/31/92	04/03/08	08/14/07	GOEV, EPA.	4
1200	Epinephrine; (Vasotonin; (R)-4-(1-Hydroxy-2-(methylamino)ethyl)-1,2-benzenediol)	51-43-4			10/15/06		NA
1201	EPN; (O-Ethyl-O-(4-nitrophenyl) phenylthiophosphonate)	2104-64-5			10/15/06		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1202	Epoxy resin (EPON 1001)	25068-38-6a	EBG000		mg/m3	Y		(C15.H16.O2..C3.H5.Cl.O)x
1203	Epoxy resin (EPON 1007)	25068-38-6b	EBG500		mg/m3	Y		(C15.H16.O2..C3.H5.Cl.O)x
1204	Epoxy resin (EPON 820)	25068-38-6c	EBF500		mg/m3	N		(C15.H16.O2..C3.H5.Cl.O)x
1205	Epoxy resin ERL-2795	25068-38-6d	ECL000		mg/m3	N		(C15.H16.O2..C3.H5.Cl.O)x
1206	Epoxy resin, cured; (4,4'-(1-Methylethylidene)biscyclohexanol, polymer with (chloromethyl)oxirane)	30583-72-3	ECL500		mg/m3	N		(C15.H28.O2..C3.H5.Cl.O)x
1207	Epoxy resin; (Bisphenol A-Bisphenol A diglycidyl ether polymer))	25036-25-3	N.I.S.		mg/m3	N		(C21.H24.O4..C15.H16.O2)x
1208	Epoxy resin; (Epichlorhydrin, polymer with diethylene glycol)	25928-94-3	ECK500		mg/m3	N		[Unspecified]
1209	Epoxybutane, 1,2- ; (1,2-Butylene oxide)	106-88-7	BOX750	72.12	ppm	Y	2.95	C4.H8.O
1210	Epoxyethyl)-7-oxabicyclo(4.1.0)heptane, 3-(; (Vinyl cyclohexene dioxide)	106-87-6	VOA000	140.20	ppm	Y	5.73	C8.H12.O2
1211	Erbium nitrate pentahydrate	10031-51-3	N.I.S. etc.	443.35	mg/m3	N	18.12	Er.(N.O3)3..5(H2.O)
1212	Erbium(III) nitrate	10168-80-6	ECY500	353.29	mg/m3	N	14.44	N3.O9.Er
1213	Erbium(III) nitrate hexahydrate	13476-05-6	ECZ000	461.41	mg/m3	N	18.86	N3.O9..Er..6(H2.O)
1214	Erbium(III) oxide	12061-16-4	N.I.S.	382.52	mg/m3	Y	15.63	Er2.O3
1215	Ergocalciferol; (Vitamin D2)	50-14-6	VSZ100	396.72	mg/m3	N	16.21	C28.H44.O

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1202	Epoxy resin (EPON 1001)	25068-38-6a	S						2	
1203	Epoxy resin (EPON 1007)	25068-38-6b	S						2	
1204	Epoxy resin (EPON 820)	25068-38-6c	S						2	
1205	Epoxy resin ERL-2795	25068-38-6d	S						2	
1206	Epoxy resin, cured; (4,4'-(1-Methylethylidene)biscyclohexanol, polymer with (chloromethyl)oxirane)	30583-72-3	S						D	
1207	Epoxy resin; (Bisphenol A-Bisphenol A diglycidyl ether polymer))	25036-25-3	S						2	
1208	Epoxy resin; (Epichlorhydrin, polymer with diethylene glycol)	25928-94-3	S						3	
1209	Epoxybutane, 1,2- ; (1,2-Butylene oxide)	106-88-7	L	-150	63.3	180	25	0.8312	3	17000
1210	Epoxyethyl)-7-oxabicyclo(4.1.0)heptane, 3-(; (Vinyl cyclohexene dioxide)	106-87-6	L	-55	227			1.098 @ 20C	3	
1211	Erbium nitrate pentahydrate	10031-51-3	S							
1212	Erbium(III) nitrate	10168-80-6	S						3	
1213	Erbium(III) nitrate hexahydrate	13476-05-6	S	130 lose water					3	
1214	Erbium(III) oxide	12061-16-4	S	2344	3920			8.64		
1215	Ergocalciferol; (Vitamin D2)	50-14-6	S	115-118					3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1202	Epoxy resin (EPON 1001)	25068-38-6a	07/09/97		10/15/06		
1203	Epoxy resin (EPON 1007)	25068-38-6b	07/09/97		10/15/06		
1204	Epoxy resin (EPON 820)	25068-38-6c	07/09/97		10/15/06		
1205	Epoxy resin ERL-2795	25068-38-6d	07/09/97		10/15/06		
1206	Epoxy resin, cured; (4,4'-(1-Methylethylidene)biscyclohexanol, polymer with (chloromethyl)oxirane)	30583-72-3	01/04/99		10/15/06		NA
1207	Epoxy resin; (Bisphenol A-Bisphenol A diglycidyl ether polymer))	25036-25-3			04/20/07		NA
1208	Epoxy resin; (Epichlorhydrin, polymer with diethylene glycol)	25928-94-3	09/30/97		10/15/06		NA
1209	Epoxybutane, 1,2- ; (1,2-Butylene oxide)	106-88-7	09/30/97		10/15/06		3
1210	Epoxyethyl)-7-oxabicyclo(4.1.0)heptane, 3-(; (Vinyl cyclohexene dioxide)	106-87-6			04/20/07		NA
1211	Erbium nitrate pentahydrate	10031-51-3	09/30/97		10/15/06		NA
1212	Erbium(III) nitrate	10168-80-6	09/30/97		10/15/06		NA
1213	Erbium(III) nitrate hexahydrate	13476-05-6	09/30/97		10/15/06		NA
1214	Erbium(III) oxide	12061-16-4			10/15/06		NA
1215	Ergocalciferol; (Vitamin D2)	50-14-6			10/15/06		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1216	Ergotamine tartrate	379-79-3	EDC500	1313.56	mg/m3	N	53.69	C66.H70.N10.O10..C4.H6.O6
1217	Estane; (Polyurethane resin; Urethane rubber)	61789-63-7	N.I.S. etc.		mg/m3	N		(Unknown)
1218	Ethane	74-84-0	EDZ000	30.08	ppm	N	1.23	C2.H6
1219	Ethanedioic acid, dimethyl ester	553-90-2	N.I.S.	118.09	mg/m3	N	4.83	C4.H6.O4
1220	Ethanedithiol, 1,2-	540-63-6	EEB000	94.20	ppm	N	3.85	C2.H6.S2
1221	Ethanediyl)bisbenzene, 1,1'-(1,2-; (Bibenzyl)	103-29-7	BFX500	182.28	mg/m3	N	7.45	C14,H14
1222	Ethanediylbis(N-(carboxymethyl)glycine), N,N'-1,2-, dipotassium salt	2001-94-7	EEB100	368.46	mg/m3	N	15.06	C10.H14.N2.O8..2K
1223	Ethanediylbis(oxy))bisbenzene, 1,1'-(1,2-	104-66-5	N.I.S.	214.26	mg/m3	N	8.76	C14.H14.O2
1224	**Ethanethiol; (Ethyl mercaptan)**	**75-08-1**	EMB100	62.14	ppm	Y	2.54	C2,H6,S
1225	Ethanol, titanium(4+) salt	3087-36-3	N.I.S.	232.16	mg/m3	N	9.49	4(C2.H6.O)..Ti
1226	Ethanolamine	141-43-5	EEC600	61.10	ppm	Y	2.50	N.H2..C.H2..C.H2..O.H
1227	Ethenylsilanetriol triacetate	4130-08-9	N.I.S.	232.26	mg/m3	N	9.49	C8.H12.O6..Si
1228	Ethidium bromide; (2,7-Diamino-10-ethyl-9-phenylphenanthridinium bromide)	1239-45-8	DBV400	394.35	mg/m3	N	16.12	C21.H20.N3..Br
1229	Ethion	563-12-2	EEH600	384.49	mg/m3	N	15.71	C9.H22.O4.P2.S4

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1216	Ergotamine tartrate	379-79-3	S	203 dec					3	
1217	Estane; (Polyurethane resin; Urethane rubber)	61789-63-7	S					1.1-1.2		
1218	Ethane	74-84-0	G	-172	-88.6	760	BP	0.446 as liq	3	29000
1219	Ethanedioic acid, dimethyl ester	553-90-2	S	54.8	163.5			1.148		
1220	Ethanedithiol, 1,2-	540-63-6	L	-41.2	146	5.68	25	1.124	3	
1221	Ethanediyl)bisbenzene, 1,1'-(1,2-; (Bibenzyl)	103-29-7	S	52	284			1.00	3	
1222	Ethanediylbis(N-(carboxymethyl)glycine), N,N'-1,2-, dipotassium salt	2001-94-7	S						1	
1223	Ethanediylbis(oxy))bisbenzene, 1,1'-(1,2-	104-66-5	S	95	182 @17mm					
1224	**Ethanethiol; (Ethyl mercaptan)**	**75-08-1**	L	-121	36.1			0.8391	3	28000
1225	Ethanol, titanium(4+) salt	3087-36-3	L							
1226	Ethanolamine	141-43-5	L>10.6	10.6	170.6	0.4	20	1.012	3	25000
1227	Ethenylsilanetriol triacetate	4130-08-9	L	7	112 @13mm			1.16		
1228	Ethidium bromide; (2,7-Diamino-10-ethyl-9-phenylphenanthridinium bromide)	1239-45-8	S	238-240					3	
1229	Ethion	563-12-2	L	-13	165 @ 0.3mm			1.31 @ 20C	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1216	Ergotamine tartrate	379-79-3			10/15/06		NA
1217	Estane; (Polyurethane resin; Urethane rubber)	61789-63-7			10/15/06		NA
1218	Ethane	74-84-0			10/15/06		1
1219	Ethanedioic acid, dimethyl ester	553-90-2			10/15/06		NA
1220	Ethanedithiol, 1,2-	540-63-6			10/15/06		NA
1221	Ethanediyl)bisbenzene, 1,1'-(1,2-; (Bibenzyl)	103-29-7			10/15/06		0
1222	Ethanediylbis(N-(carboxymethyl)glycine), N,N'-1,2-, dipotassium salt	2001-94-7			10/15/06		NA
1223	Ethanediylbis(oxy))bisbenzene, 1,1'-(1,2-	104-66-5			10/15/06		NA
1224	**Ethanethiol; (Ethyl mercaptan)**	**75-08-1**	09/30/97	02/04/08	08/14/07	GOEV, EPA.	2
1225	Ethanol, titanium(4+) salt	3087-36-3			10/15/06		NA
1226	Ethanolamine	141-43-5	08/21/96		10/15/06		3
1227	Ethenylsilanetriol triacetate	4130-08-9			10/15/06		
1228	Ethidium bromide; (2,7-Diamino-10-ethyl-9-phenylphenanthridinium bromide)	1239-45-8	01/04/99		10/15/06		NA
1229	Ethion	563-12-2			10/15/06		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1230	Ethoxyethanol, 2-	110-80-5	EES350	90.14	ppm	N	3.68	C2.H5O.C.H2.C.H2..O.H
1231	Ethoxyethoxy)ethanol, 2-(2-; (Carbitol cellosolve; Diethylene glycol monoethyl	111-90-0	CBR000	134.20	ppm	Y	5.48	C6.H14.O3
1232	Ethoxyethyl methacrylate, 2-	2370-63-0	N.I.S.	158.20	mg/m3	N	6.47	C8.H14.O3
1233	Ethoxyethylacetate, 2-	111-15-9	EES400	132.18	ppm	Y	5.40	C6.H12.O3
1234	Ethoxyimino)butyl)-5-(2-ethylthiopropyl)-3-hydroxycyclohex-2-en-1-one, 2-(1-(; (Checkmate)	74051-80-2	CDK800	327.53	mg/m3	N	13.39	C17.H29.N.O3.S
1235	Ethoxylated alcohols, C16-18; (Nonionic surfactant)	68439-49-6	AFJ170		mg/m3	N		
1236	Ethoxylated alcohols, C7-C21	68991-48-0	N.I.S. etc.		mg/m3	Y		[Unspecified]
1237	Ethoxylated nonylphenol; (Nonyl phenyl polyethylene glycol ether)	9016-45-9	NND500		mg/m3	Y		(C2.H4O)n..C15.H24.O (n=5-15)
1238	Ethyhexyloxy)ethanol, 2-(2-	1559-35-9	EKX500	174.32	mg/m3	Y	7.12	C10.H22.O2
1239	Ethyl (or dimethyl) pyrrolidine	z-0020	N.I.S. etc.	99.00	mg/m3	N	4.05	[Unspecified]
1240	Ethyl acetate	141-78-6	EFR000	88.12	ppm	Y	3.60	C.H3.C.O.O.C2..H5
1241	Ethyl acetoacetate	141-97-9	EFS000	130.16	mg/m3	Y	5.32	C6.H10.O3
1242	**Ethyl acrylate**	**140-88-5**	EFT000	100.13	ppm	Y	4.09	C5.H8.O2
1243	Ethyl alcohol; (ethanol)	64-17-5	EFU000	46.08	ppm	N	1.88	C2.H5.O.H

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1230	Ethoxyethanol, 2-	110-80-5	L	-90	135.1	3.8	20	3.1	3	17000
1231	Ethoxyethoxy)ethanol, 2-(2-; (Carbitol cellosolve; Diethylene glycol monoethyl	111-90-0	L		201.9			0.986	2	12000
1232	Ethoxyethyl methacrylate, 2-	2370-63-0	S							
1233	Ethoxyethylacetate, 2-	111-15-9	L	-61	156.4	1.2	20	0.9748	3	13000
1234	Ethoxyimino)butyl)-5-(2-ethylthiopropyl)-3-hydroxycyclohex-2-en-1-one, 2-(1-(; (Checkmate)	74051-80-2	S						2	
1235	Ethoxylated alcohols, C16-18; (Nonionic surfactant)	68439-49-6	S	44-48				1.02	2	
1236	Ethoxylated alcohols, C7-C21	68991-48-0								
1237	Ethoxylated nonylphenol; (Nonyl phenyl polyethylene glycol ether)	9016-45-9	L						2	
1238	Ethyhexyloxy)ethanol, 2-(2-	1559-35-9	L		227.7				2	
1239	Ethyl (or dimethyl) pyrrolidine	z-0020								
1240	Ethyl acetate	141-78-6	L	-83.6	77.2	100	27	0.8946	3	20000
1241	Ethyl acetoacetate	141-97-9	L	-45	180.8	0.78	25	1.0282 @ 20C	2	14000
1242	**Ethyl acrylate**	**140-88-5**	L	-71.2	99.8	29.3	20	0.916-9	3	14000
1243	Ethyl alcohol; (ethanol)	64-17-5	L	<-130	78.3	43	20	0.7893	3	33000

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1230	Ethoxyethanol, 2-	110-80-5	08/21/96		10/15/06		1
1231	Ethoxyethoxy)ethanol, 2-(2-; (Carbitol cellosolve; Diethylene glycol monoethyl	111-90-0	01/04/99		04/20/07		2
1232	Ethoxyethyl methacrylate, 2-	2370-63-0			10/15/06		NA
1233	Ethoxyethylacetate, 2-	111-15-9	09/30/97		10/15/06		2
1234	Ethoxyimino)butyl)-5-(2-ethylthiopropyl)-3-hydroxycyclohex-2-en-1-one, 2-(1-(; (Checkmate)	74051-80-2	03/01/00		04/20/07		NA
1235	Ethoxylated alcohols, C16-18; (Nonionic surfactant)	68439-49-6			04/20/07		NA
1236	Ethoxylated alcohols, C7-C21	68991-48-0	07/09/97		10/15/06		NA
1237	Ethoxylated nonylphenol; (Nonyl phenyl polyethylene glycol ether)	9016-45-9	11/15/96		10/15/06		NA
1238	Ethyhexyloxy)ethanol, 2-(2-	1559-35-9	06/25/07		06/25/07	RTECS	3
1239	Ethyl (or dimethyl) pyrrolidine	z-0020			10/15/06		
1240	Ethyl acetate	141-78-6	08/21/96		10/15/06		1
1241	Ethyl acetoacetate	141-97-9			10/15/06		1
1242	**Ethyl acrylate**	**140-88-5**	09/30/97	07/18/08	08/14/07	GOEV, EPA.	3
1243	Ethyl alcohol; (ethanol)	64-17-5	08/21/96		10/15/06		2

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1244	Ethyl alcohol-d; (Ethanol-d)	925-93-9	N.I.S. etc.	47.07	ppm	N	1.92	C2.H5.O.D
1245	Ethyl amyl ketone; (5-Methyl-3-heptanone; 3-Octanone)	106-68-3	ODI000	128.24	ppm	Y	5.24	C8.H16.O
1246	Ethyl benzene	100-41-4	EGP500	106.18	ppm	Y	4.34	C8.H10
1247	Ethyl benzoate	93-89-0	EGR000	150.19	mg/m3	N	6.14	C9.H10.O2
1248	Ethyl bromoacetate	105-36-2	EGV000	167.02	ppm	Y	6.83	C4.H7.Br.O2
1249	Ethyl butyl ketone; (3-Heptanone)	106-35-4	EHA600	114.21	ppm	Y	4.67	C7.H14.O
1250	Ethyl cellulose	9004-57-3	EHG100		mg/m3	Y		(Unknown)
1251	Ethyl chloride	75-00-3	EHH000	64.52	ppm	Y	2.64	C2.H5.Cl
1252	Ethyl chloroacetate	105-39-5	EHG500	122.56	ppm	Y	5.01	C4.H7.Cl.O2
1253	**Ethyl chloroformate**	**541-41-3**	EHK500	108.53	ppm	Y	4.44	C3.H5.Cl.O2
1254	**Ethyl dimethylamido-cyanophosphate; (Tabun; GA)**	**77-81-6**	EIF000	162.15	ppm	N	6.63	C5.H11.N2.O2.P
1255	Ethyl ether	60-29-7	EJU000	74.14	ppm	Y	3.03	C4.H10.O
1256	Ethyl formate	109-94-4	EKL000	74.09	ppm	N	3.03	C3.H6.O2
1257	Ethyl hexanoic acid, 2-; (Butyl ethyl acetic acid)	149-57-5	BRI250	144.24	mg/m3	Y	5.90	C8.H16.O2

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1244	Ethyl alcohol-d; (Ethanol-d)	925-93-9	L	-130	78			0.806		
1245	Ethyl amyl ketone; (5-Methyl-3-heptanone; 3-Octanone)	106-68-3	L	-23	168	2	20	0.822 @ 20C	3	
1246	Ethyl benzene	100-41-4	L	-94.9	136.2	10	26	0.8669	3	8000
1247	Ethyl benzoate	93-89-0	L	-34.6	213.4	1	44	1.048 @ 20C	2	
1248	Ethyl bromoacetate	105-36-2	L	<-20	158.8	2.6	25	1.5032 @ 20C	3	
1249	Ethyl butyl ketone; (3-Heptanone)	106-35-4	L	-36.7	149-152			0.8198 @ 20C	3	14000
1250	Ethyl cellulose	9004-57-3	S	240-255				1,07-1.18	1	
1251	Ethyl chloride	75-00-3	G	-138.9	12.2	>760	20	0.917	3	36000
1252	Ethyl chloroacetate	105-39-5	L	-27	144	10	37.5	1.145	3	
1253	**Ethyl chloroformate**	**541-41-3**	L/S	-80.6	94	22.4	25	1.1442 @ 15C	3	
1254	**Ethyl dimethylamido-cyanophosphate; (Tabun; GA)**	**77-81-6**	L	-49.4	238 dec	0.07	25	1.073	3	
1255	Ethyl ether	60-29-7	L	-116.2	34.6	442	20	0.7135	3	17000
1256	Ethyl formate	109-94-4	L	-79	54.3	100	5.4	0.9236 @ 20C	3	28000
1257	Ethyl hexanoic acid, 2-; (Butyl ethyl acetic acid)	149-57-5	L		225-228	0.03	20	0.9031	2	9000

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1244	Ethyl alcohol-d; (Ethanol-d)	925-93-9			04/20/07		NA
1245	Ethyl amyl ketone; (5-Methyl-3-heptanone; 3-Octanone)	106-68-3		02/26/08	12/06/07	GOEV, NIOSH, RTECS.	NA
1246	Ethyl benzene	100-41-4	08/21/96	08/22/08	10/15/06	goev, niosh, rtecs.	2
1247	Ethyl benzoate	93-89-0			04/20/07		1
1248	Ethyl bromoacetate	105-36-2			04/20/07		3
1249	Ethyl butyl ketone; (3-Heptanone)	106-35-4			10/15/06		2
1250	Ethyl cellulose	9004-57-3			10/15/06		NA
1251	Ethyl chloride	75-00-3	08/21/96		10/15/06		2
1252	Ethyl chloroacetate	105-39-5			04/20/07		3
1253	**Ethyl chloroformate**	**541-41-3**		07/18/08	06/30/08	UK OELs, EPA.	4
1254	**Ethyl dimethylamido-cyanophosphate; (Tabun; GA)**	**77-81-6**		02/04/08	08/14/07	EPA.	NA
1255	Ethyl ether	60-29-7	08/21/96		10/15/06		1
1256	Ethyl formate	109-94-4			04/20/07		2
1257	Ethyl hexanoic acid, 2-; (Butyl ethyl acetic acid)	149-57-5	09/30/97	02/26/08	02/26/08	GOEV, RTECS.	1

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1258	Ethyl lactate; (Ethyl (s)-(-)-lactate)	687-47-8	N.I.S.	118.13	mg/m3	N	4.83	C5.H10.O3
1259	Ethyl mercury chloride; (Chloroethyl mercury)	107-27-7	CHC500	265.11	mg/m3	Y	10.84	C2.H5.Cl.Hg
1260	Ethyl methacrylate; (2-Methyl-2-propenoic acid, ethyl ester)	97-63-2	EMF000	114.16	ppm	Y	4.67	C6.H10.O2
1261	Ethyl nitrite	109-95-5	ENN000	75.08	ppm	N	3.07	C2.H5.N.O3
1262	Ethyl O-2-diisopropylaminoethylmethylphosphonite, O-;	57856-11-8	N.I.S.	235.31	mg/m3	N	9.62	C11.H26.N.O2.P
1263	Ethyl propionate	105-37-3	EPB500	102.15	ppm	Y	4.18	C5.H10.O2
1264	Ethyl S,S-dipropylphosphorodithioate, O-; (Mocap PC-84; Ethoprophos)	13194-48-4	EIN000	242.36	mg/m3	N	9.91	C8.H19.O2.P.S2
1265	Ethyl silicate polymer; (Silicic acid, ethyl ester)	11099-06-2	N.I.S.	106.05	mg/m3	N	4.33	C2.H6.O3..Si
1266	Ethyl-1,3-hexanediol, 2-; (Ethyl hexylene glycol)	94-96-2	EKV000	146.26	ppm	Y	5.98	C8.H18.O2
1267	**Ethyl-1-hexanol, 2-**	**104-76-7**	EKQ000	130.26	ppm	Y	5.32	C8.H18.O
1268	Ethyl-2-methylheptane, 3-	14676-29-0	N.I.S., etc.	142.28	ppm	N	5.82	C.C.(C.H3)..C..(C2.H5).C.C.C.C
1269	Ethyl-2-methyloctane, 6-	62016-19-7	N.I.S. etc.	156.31	ppm	N	6.39	C11.H24
1270	Ethyl-2-oxazoline, 2-	10431-98-8	N.I.S.	99.13	ppm	Y	4.05	C5.H9.N.O.
1271	Ethyl-4-hydroxybenzoate; (p-Hydroxybenzoic acid ethyl ester)	120-47-8	HJL000	166.19	mg/m3	N	6.79	C9.H10.O3

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1258	Ethyl lactate; (Ethyl (s)-(-)-lactate)	687-47-8	L/S	25	154	3.75	25	1.042	2	15000
1259	Ethyl mercury chloride; (Chloroethyl mercury)	107-27-7	S	196-198					3	
1260	Ethyl methacrylate; (2-Methyl-2-propenoic acid, ethyl ester)	97-63-2	L	<-75	119	20.59	20	0.911	3	18000
1261	Ethyl nitrite	109-95-5	L	-50	17			0.900 @ 15.5C	3	30000
1262	Ethyl O-2-diisopropylaminoethylmethylphosphonite, O-;	57856-11-8								
1263	Ethyl propionate	105-37-3	L	-72.6	99	40	27.2	0.891 @ 20C	3	18000
1264	Ethyl S,S-dipropylphosphorodithioate, O-; (Mocap PC-84; Ethoprophos)	13194-48-4	L	-13	86-91 @ 0.2 mm	3.80E-04	20-25	1.094@ 20	3	
1265	Ethyl silicate polymer; (Silicic acid, ethyl ester)	11099-06-2	S							
1266	Ethyl-1,3-hexanediol, 2-; (Ethyl hexylene glycol)	94-96-2	L	-40	243.1	<0.01	20	0.9422 @ 20C	2	
1267	**Ethyl-1-hexanol, 2-**	**104-76-7**	L	<76	184-185	0.2	20	0.834	2	8800
1268	Ethyl-2-methylheptane, 3-	14676-29-0	L		163			0.7398		7100
1269	Ethyl-2-methyloctane, 6-	62016-19-7	L							
1270	Ethyl-2-oxazoline, 2-	10431-98-8	L	-62	128.4			0.982	3	
1271	Ethyl-4-hydroxybenzoate; (p-Hydroxybenzoic acid ethyl ester)	120-47-8	S	116	297-298				2	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1258	Ethyl lactate; (Ethyl (s)-(-)-lactate)	687-47-8			04/20/07		NA
1259	Ethyl mercury chloride; (Chloroethyl mercury)	107-27-7	09/30/97	04/03/08	10/15/06	GOEV, NIOSH, RTECS.	NA
1260	Ethyl methacrylate; (2-Methyl-2-propenoic acid, ethyl ester)	97-63-2			04/20/07		2
1261	Ethyl nitrite	109-95-5			10/15/06		4
1262	Ethyl O-2-diisopropylaminoethylmethylphosphonite, O-;	57856-11-8		02/22/08	10/15/06	TSCA.	NA
1263	Ethyl propionate	105-37-3			10/15/06		1
1264	Ethyl S,S-dipropylphosphorodithioate, O-; (Mocap PC-84; Ethoprophos)	13194-48-4	08/07/98		04/20/07		NA
1265	Ethyl silicate polymer; (Silicic acid, ethyl ester)	11099-06-2			04/20/07		NA
1266	Ethyl-1,3-hexanediol, 2-; (Ethyl hexylene glycol)	94-96-2			04/20/07		2
1267	**Ethyl-1-hexanol, 2-**	**104-76-7**	01/04/99		08/14/07	AIHA.	2
1268	Ethyl-2-methylheptane, 3-	14676-29-0			10/15/06		NA
1269	Ethyl-2-methyloctane, 6-	62016-19-7			08/27/07	RTECS.	
1270	Ethyl-2-oxazoline, 2-	10431-98-8			04/20/07		
1271	Ethyl-4-hydroxybenzoate; (p-Hydroxybenzoic acid ethyl ester)	120-47-8			04/20/07		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1272	Ethyl-5-methylheptane, 3-	52896-90-9	N.I.S. etc.	142.28	ppm	N	5.82	C10.H22
1273	Ethyl-6-methyl-4-phenyl-3-cyclohexene-1-carboxylic acid sodium salt, 5-; (Mebane sodium salt)	16550-39-3	MBV775	266.34	mg/m3	N	10.89	C16.H19.O2..Na
1274	**Ethylamine; (Monoethylamine; Ethylamine anhydrous)**	**75-04-7**	EFU400	45.10	ppm	Y	1.84	C2.H7.N
1275	Ethylbenzaldehyde, 2-	22927-13-5	N.I.S.	134.18	ppm	Y	5.48	C9.H100
1276	**Ethylbis(2-chloroethyl)amine; (Bis(2-chloroethyl)ethylamine; Nitrogen mustard-1)**	**538-07-8**	BID250	170.10	mg/m3	N	6.95	C6.H13.Cl2.N
1277	**Ethylchlorothioformate**	**2941-64-2**	N.I.S.	132.56	ppm	N	5.42	C3.H5.Cl.O.S
1278	**Ethyldichloroarsine; (Dichloroethylarsine)**	**598-14-1**	DFH200	174.89	mg/m3	Y	7.15	C2.H5.As.Cl2
1279	Ethylene	74-85-1	EIO000	28.06	ppm	N	1.15	C2.H4
1280	**Ethylene chlorohydrin; (2-Chloroethanol)**	**107-07-3**	EIU800	80.52	ppm	Y	3.29	C2.H5.Cl.O
1281	**Ethylene dibromide; (Dibromoethane)**	**106-93-4**	EIY500	187.88	ppm	Y	7.68	Br.C.H2.C.H2.Br
1282	**Ethylene dichloride; (1,2-Dichloroethane)**	**107-06-2**	EIY600	98.96	ppm	Y	4.04	Cl.C.H2.C.H2.Cl
1283	Ethylene fluorohydrin; (2-Fluoroethanol)	371-62-0	FIE000	64.07	ppm	N	2.62	C2.H5.F.O

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1272	Ethyl-5-methylheptane, 3-	52896-90-9	L		158.2			0.7368 @ 25C		7000
1273	Ethyl-6-methyl-4-phenyl-3-cyclohexene-1-carboxylic acid sodium salt, 5-; (Mebane sodium salt)	16550-39-3	S (?)						D	
1274	**Ethylamine; (Monoethylamine; Ethylamine anhydrous)**	**75-04-7**	L	-80.6	16.6	400	20	0.662 @ 20C	3	35000
1275	Ethylbenzaldehyde, 2-	22927-13-5	S		83 @ 1 mmHg			0.979		10000
1276	**Ethylbis(2-chloroethyl)amine; (Bis(2-chloroethyl)ethylamine; Nitrogen mustard-1)**	**538-07-8**	L	-34	194 dec	0.25	25	1.09	3	
1277	**Ethylchlorothioformate**	**2941-64-2**	L		132			1.195		
1278	**Ethyldichloroarsine; (Dichloroethylarsine)**	**598-14-1**	L	-65	156 dfc	2.29	21.5	1.742 @ 14C	3	
1279	Ethylene	74-85-1	G	-169.4	-103.9	5.12E+4	25	0.61	3	27000
1280	**Ethylene chlorohydrin; (2-Chloroethanol)**	**107-07-3**	L	-69	128.8	10	30.3	1.197 @ 20C/4C	3	49000
1281	**Ethylene dibromide; (Dibromoethane)**	**106-93-4**	L	10	131.1	12	20	2.178	3	
1282	**Ethylene dichloride; (1,2-Dichloroethane)**	**107-06-2**	L	-35.6	83.3	64	20	1.257	3	62000
1283	Ethylene fluorohydrin; (2-Fluoroethanol)	371-62-0	L	-26.45	103.5	21.25	25	1.1040 @ 20C	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1272	Ethyl-5-methylheptane, 3-	52896-90-9			10/15/06		NA
1273	Ethyl-6-methyl-4-phenyl-3-cyclohexene-1-carboxylic acid sodium salt, 5-; (Mebane sodium salt)	16550-39-3	09/30/97		10/15/06		NA
1274	**Ethylamine; (Monoethylamine; Ethylamine anhydrous)**	**75-04-7**			06/27/08	EPA.	3
1275	Ethylbenzaldehyde, 2-	22927-13-5			10/15/06		NA
1276	**Ethylbis(2-chloroethyl)amine; (Bis(2-chloroethyl)ethylamine; Nitrogen mustard-1)**	**538-07-8**		07/18/08	12/28/07	EPA, RTECS	NA
1277	**Ethylchlorothioformate**	**2941-64-2**	07/02/08	07/18/08	07/02/08	ChemFinder, EPA.	
1278	**Ethyldichloroarsine; (Dichloroethylarsine)**	**598-14-1**	12/31/07	07/18/08	12/31/07	EPA, SAX, RTECS	
1279	Ethylene	74-85-1	08/07/98	03/04/08		GOEV, RTECS.	2
1280	**Ethylene chlorohydrin; (2-Chloroethanol)**	**107-07-3**	01/04/99		06/27/08	GOEV, EPA.	4
1281	**Ethylene dibromide; (Dibromoethane)**	**106-93-4**	08/21/96		06/27/08	GOEV, EPA.	NA
1282	**Ethylene dichloride; (1,2-Dichloroethane)**	**107-06-2**	08/21/96		08/14/07	GOEV, AIHA.	2
1283	Ethylene fluorohydrin; (2-Fluoroethanol)	371-62-0			10/15/06		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1284	Ethylene glycol	107-21-1	EJC500	62.08	ppm	Y	2.54	C.H2..O.H..C.H2..O.H
1285	Ethylene glycol diacetate	111-55-7	EJD759	146.16	mg/m3	N	5.97	C6.H10.O4
1286	Ethylene glycol dimethacrylate	97-90-5	BKM250	198.10	mg/m3	Y	8.10	C10.H14.O4
1287	Ethylene glycol monomethyl ether acetate; (EGMEA; 2-Methoxyethyl acetate)	110-49-6	EJJ500	118.15	ppm	N	4.83	C5.H10.O3
1288	Ethylene glycol monomethyl ether; (2-Methoxyethanol; EGME; Methyl	109-86-4	EJH500	76.11	ppm	Y	3.11	C3.H8.O2
1289	Ethylene glycol monopropyl ether; (Propyl cellosolve; Ektasolve EP)	2807-30-9	PNG750	104.17	ppm	Y	4.26	C5.H12.O2
1290	Ethylene glycol mono-sec-butyl ether	7795-91-7	EJJ000	118.20	mg/m3	Y	4.83	C6.H14.O2
1291	**Ethylene oxide; (Oxirane)**	**75-21-8**	EJN500	44.06	ppm	Y	1.80	C.H2..O..C.H2
1292	Ethylene/vinyl acetate copolmer	24937-78-8	N.I.S.		mg/m3	N		(C4.H6.O2..C2.H4)x
1293	Ethylenediamine dihydrochloride	333-18-6	EIW000	133.04	mg/m3	N	5.44	C2.H8.N2..2(Cl.H)
1294	**Ethylenediamine, 1,2-**	**107-15-3**	EEA500	60.12	ppm	Y	2.46	C2.H8.N2
1295	Ethylenediaminetetraacetic acid, disodium salt	139-33-3	EIX500	336.24	mg/m3	N	13.74	C10.H14.N2.O8..2Na
1296	Ethylenediaminetetraacetic acid, disodium salt, dihydrate	6381-92-6	N.I.S.	372.28	mg/m3	N	15.22	C10.H14.N2.O8.. 2Na 2(H2.O)
1297	Ethylenediaminetetraacetic acid, ferric ammonium salt	21265-50-9	N.I.S.	362.10	mg/m3	N	14.80	C10.H12.Fe.N2.O8..H4.N

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1284	Ethylene glycol	107-21-1	L	-22.2	197.2	0.05	20	1.113	3	32000
1285	Ethylene glycol diacetate	111-55-7	L	-31	190-191	0.0774	25	1.104	2	16000
1286	Ethylene glycol dimethacrylate	97-90-5	L	-40	260			1.055 @ 20C	2	
1287	Ethylene glycol monomethyl ether acetate; (EGMEA; 2-Methoxyethyl acetate)	110-49-6	L	-70	143	2	20	1.005 @ 20C	3	17000
1288	Ethylene glycol monomethyl ether; (2-Methoxyethanol; EGME; Methyl	109-86-4	L	-86.5	124.5	6.2	20	0.966	3	18000
1289	Ethylene glycol monopropyl ether; (Propyl cellosolve; Ektasolve EP)	2807-30-9	L		150 @ 743			0.914	3	13000
1290	Ethylene glycol mono-sec-butyl ether	7795-91-7	S (?)						2	
1291	**Ethylene oxide; (Oxirane)**	**75-21-8**	G	-112.8	10.6	>760		0.8711	3	30000
1292	Ethylene/vinyl acetate copolmer	24937-78-8	S	100				1.07		
1293	Ethylenediamine dihydrochloride	333-18-6	S	subl.					3	
1294	**Ethylenediamine, 1,2-**	**107-15-3**	L	8.5	117.2	10.7	20	0.8994	3	25000
1295	Ethylenediaminetetraacetic acid, disodium salt	139-33-3	S						3	
1296	Ethylenediaminetetraacetic acid, disodium salt, dihydrate	6381-92-6	S	248 dec						
1297	Ethylenediaminetetraacetic acid, ferric ammonium salt	21265-50-9	S						2	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1284	Ethylene glycol	107-21-1	10/31/92		10/15/06		2
1285	Ethylene glycol diacetate	111-55-7	04/15/07		04/20/07		1
1286	Ethylene glycol dimethacrylate	97-90-5			10/15/06		NA
1287	Ethylene glycol monomethyl ether acetate; (EGMEA; 2-Methoxyethyl acetate)	110-49-6	04/15/07		04/20/07		2
1288	Ethylene glycol monomethyl ether; (2-Methoxyethanol; EGME; Methyl	109-86-4	08/07/98		10/15/06		1
1289	Ethylene glycol monopropyl ether; (Propyl cellosolve; Ektasolve EP)	2807-30-9	09/30/97		04/20/07		NA
1290	Ethylene glycol mono-sec-butyl ether	7795-91-7	09/30/97		10/15/06		NA
1291	**Ethylene oxide; (Oxirane)**	**75-21-8**	10/31/92	02/04/08	08/14/07	GOEV, EPA.	3
1292	Ethylene/vinyl acetate copolmer	24937-78-8			10/15/06		NA
1293	Ethylenediamine dihydrochloride	333-18-6			10/15/06		NA
1294	**Ethylenediamine, 1,2-**	**107-15-3**	01/04/99	02/04/08	10/15/06		3
1295	Ethylenediaminetetraacetic acid, disodium salt	139-33-3	08/07/98		10/15/06		NA
1296	Ethylenediaminetetraacetic acid, disodium salt, dihydrate	6381-92-6			10/15/06		NA
1297	Ethylenediaminetetraacetic acid, ferric ammonium salt	21265-50-9	01/04/99		10/15/06		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1298	Ethylenediaminetetraacetic acid, tetrasodium salt, dihydrate	10378-23-1	N.I.S.	416.20	mg/m3	Y	17.01	C10.H12.N2.O8..4Na..2(H2.O)
1299	Ethylenediaminetetraacetic acid, tetrasodiumn salt; (Tetrasodium EDTA)	64-02-8	EIV000	380.20	mg/m3	Y	15.54	C10.H12.N2.O8..4Na
1300	Ethylenediaminetetraacetic acid; (EDTA)	60-00-4	EIX000	292.28	mg/m3	N	11.95	C10.H16.N2.O8
1301	Ethylenedinitrilo)tetra-2-propanol, 1,1',1",1'"-(	102-60-3	QAT000	292.48	mg/m3	N	11.95	C14.H32.N2.O4
1302	**Ethyleneimine**	**151-56-4**	EJM900	43.08	ppm	Y	1.76	(C.H2)2.N.H
1303	Ethylenethiourea; (2-Imidazolidinethione)	96-45-7	IAQ000	102.17	mg/m3	Y	4.18	C3.H6.N2.S
1304	Ethylheptane, 4-	2216-32-2	N.I.S.	128.26	ppm	N	5.24	C9.H20
1305	Ethylhexyl acrolate, 2-; (Acrylic acid, 2-ethylhexyl ester)	103-11-7	ADU250	184.31	ppm	Y	7.53	C11.H20.O2
1306	Ethylhexyl bromide, 2-	18908-66-2	N.I.S.	193.20	mg/m3	N	7.90	C8.H17.Br
1307	**Ethylhexylchloroformate, 2-**	**24468-13-1**	N.I.S.	192.71	ppm	Y	7.88	C9.H17.Cl.O2
1308	Ethylidene chloride, 1,1-; (1,1-Dichloroethane)	75-34-3	DFF809	98.96	ppm	N	4.04	C.H.Cl2.C.H3
1309	**Ethylidene norbornene**	**16219-75-3**	ELO500	120.19	ppm	Y	4.91	C9.H12
1310	Ethylmagnesium chloride; (Chloroethyl magnesium)	2386-64-3	N.I.S.	88.82	mg/m3	N	3.63	C2.H5.Cl.Mg
1311	**Ethyl-S-dimethylaminoethyl methylphosphonothiolate; (VX nerve agent)**	**50782-69-9**	EIG000	267.41	ppm	N	10.93	C11.H26..N.O2.P.S

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1298	Ethylenediaminetetraacetic acid, tetrasodium salt, dihydrate	10378-23-1	S						2	
1299	Ethylenediaminetetraacetic acid, tetrasodiumn salt; (Tetrasodium EDTA)	64-02-8	S	220	240 dec				3	
1300	Ethylenediaminetetraacetic acid; (EDTA)	60-00-4	S	245	dec				3	
1301	Ethylenedinitrilo)tetra-2-propanol, 1,1',1",1'"-(	102-60-3	L/S	31-32	190			1.478	2	
1302	**Ethyleneimine**	**151-56-4**	L	-71.7	56.1	160	20	0.832	3	33000
1303	Ethylenethiourea; (2-Imidazolidinethione)	96-45-7	S	199-204					3	
1304	Ethylheptane, 4-	2216-32-2	L		141.2			0.7241		8000
1305	Ethylhexyl acrolate, 2-; (Acrylic acid, 2-ethylhexyl ester)	103-11-7	L	-90	214-218	1	50	0.8869 @ 20C	3	8000
1306	Ethylhexyl bromide, 2-	18908-66-2	L	69.44	75-77 @ 16 mm			1.086		
1307	**Ethylhexylchloroformate, 2-**	**24468-13-1**	L		106					
1308	Ethylidene chloride, 1,1-; (1,1-Dichloroethane)	75-34-3	L	-97.2	57.2	182	20	1.174	3	54000
1309	**Ethylidene norbornene**	**16219-75-3**	L		70.2-70.4 @ 58 mm				3	9000
1310	Ethylmagnesium chloride; (Chloroethyl magnesium)	2386-64-3	S					0.978		
1311	**Ethyl-S-dimethylaminoethyl methylphosphonothiolate; (VX nerve agent)**	**50782-69-9**	L?						3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1298	Ethylenediaminetetraacetic acid, tetrasodium salt, dihydrate	10378-23-1			10/15/06		NA
1299	Ethylenediaminetetraacetic acid, tetrasodiumn salt; (Tetrasodium EDTA)	64-02-8	07/09/97		01/11/08	RTECS.	NA
1300	Ethylenediaminetetraacetic acid; (EDTA)	60-00-4	07/09/97		10/15/06		NA
1301	Ethylenedinitrilo)tetra-2-propanol, 1,1',1",1'"-(	102-60-3			10/15/06		NA
1302	**Ethyleneimine**	**151-56-4**	08/21/96	07/18/08	08/14/07	GOEV, EPA.	4
1303	Ethylenethiourea; (2-Imidazolidinethione)	96-45-7	08/21/96		04/20/07		NA
1304	Ethylheptane, 4-	2216-32-2			10/15/06		NA
1305	Ethylhexyl acrolate, 2-; (Acrylic acid, 2-ethylhexyl ester)	103-11-7			10/15/06		1
1306	Ethylhexyl bromide, 2-	18908-66-2			10/15/06		NA
1307	**Ethylhexylchloroformate, 2-**	**24468-13-1**	07/02/08	07/19/08	07/02/08	ChemFinder, EPA.	
1308	Ethylidene chloride, 1,1-; (1,1-Dichloroethane)	75-34-3	08/21/96		10/15/06		1
1309	**Ethylidene norbornene**	**16219-75-3**			08/14/07	AIHA.	NA
1310	Ethylmagnesium chloride; (Chloroethyl magnesium)	2386-64-3			10/15/06		NA
1311	**Ethyl-S-dimethylaminoethyl methylphosphonothiolate; (VX nerve agent)**	**50782-69-9**	01/04/99	07/19/08	08/14/07	EPA	NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1312	Ethylthiocyanate	542-90-5	EPP000	87.15	mg/m3	N	3.56	C3.H5.N.S
1313	Ethyltoluene, o-	611-14-3	EPS500	120.21	mg/m3	N	4.91	C9.H12
1314	Ethyltoluene, p-	622-96-8	EPT000	120.21	mg/m3	N	4.91	C9.H12
1315	Europium	7440-53-1	N.I.S.	151.96	mg/m3	N	6.21	Eu
1316	Europium nitrate; (Europium trinitrate)	10138-01-9	ERC550	337.99	mg/m3	N	13.81	Eu.(N.O3)3
1317	Europium oxide	1308-96-9	N.I.S.	351.93	mg/m3	N	14.38	Eu2.O3
1318	Europium(II) iodide	22015-35-6	N.I.S.	405.77	mg/m3	N	16.58	Eu.I2
1319	Farnesol	4602-84-0	FAB800	222.41	mg/m3	N	9.09	C15.H26.O
1320	Fatty acids, tall-oil, polymers with glycerol, pentaerythritol and phthalic anhydride	66070-62-0	N.I.S.		mg/m3	N		[Unknown]
1321	Fenamiphos	22224-92-6	FAK000	303.39	mg/m3	N	12.40	C13.H22.N.O3.P.S
1322	Fensulfothion	115-90-2	FAQ800	308.37	mg/m3	N	12.60	C11.H17.O4.P.S2
1323	Fenthion	55-38-9	FAQ900	278.34	mg/m3	N	11.38	C10.H15.O3.P.S2
1324	Ferric ammonium citrate	1185-57-5	FAS700	709.44	mg/m3	N	29.00	C6.H8.O7.xFe.xH4.N
1325	Ferric ammonium sulfate dodecahydrate	7783-83-7	N.I.S.	482.26	mg/m3	N	19.71	Fe..N.H4..2(S.O4)..12(H2.O)

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1312	Ethylthiocyanate	542-90-5	L	-85.5	145	4	25	1.020 @ 16C	3	
1313	Ethyltoluene, o-	611-14-3	L		164.1			0.88	3	
1314	Ethyltoluene, p-	622-96-8	L	-62.4	162.2				1	
1315	Europium	7440-53-1	S	826	1489			5.24	3	
1316	Europium nitrate; (Europium trinitrate)	10138-01-9	S						3	
1317	Europium oxide	1308-96-9	S	2350				7.42		
1318	Europium(II) iodide	22015-35-6	S	580						
1319	Farnesol	4602-84-0	L		110 - 113			0.8871 @ 20C	2	
1320	Fatty acids, tall-oil, polymers with glycerol, pentaerythritol and phthalic anhydride	66070-62-0								
1321	Fenamiphos	22224-92-6	S	49.2	450	0.000001	25	1.15 @ 20C	3	
1322	Fensulfothion	115-90-2	L		440	0.00005	25	1.202 @ 20C	3	
1323	Fenthion	55-38-9	L	7	87 @ 0.01 mm	4 mPa	20	1.25	3	
1324	Ferric ammonium citrate	1185-57-5	S					1.8 @ 20C	1	
1325	Ferric ammonium sulfate dodecahydrate	7783-83-7	S	39-41				1.71		

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1312	Ethylthiocyanate	542-90-5			10/15/06		NA
1313	Ethyltoluene, o-	611-14-3	01/04/99		10/15/06		2
1314	Ethyltoluene, p-	622-96-8	01/04/99		04/20/07		1
1315	Europium	7440-53-1	01/04/99		10/15/06		NA
1316	Europium nitrate; (Europium trinitrate)	10138-01-9	09/30/97		10/15/06		NA
1317	Europium oxide	1308-96-9		03/10/08		RTECS.	NA
1318	Europium(II) iodide	22015-35-6			04/20/07		NA
1319	Farnesol	4602-84-0			04/20/07		NA
1320	Fatty acids, tall-oil, polymers with glycerol, pentaerythritol and phthalic anhydride	66070-62-0	09/30/97		10/15/06		NA
1321	Fenamiphos	22224-92-6			10/15/06		NA
1322	Fensulfothion	115-90-2			10/15/06		NA
1323	Fenthion	55-38-9			11/14/07	GOEV, RTECS	NA
1324	Ferric ammonium citrate	1185-57-5		03/10/08		GOEV, RTECS.	NA
1325	Ferric ammonium sulfate dodecahydrate	7783-83-7			10/15/06		

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1326	Ferric ammonium sulfate; (Sulfuric acid, ammonium iron(3e+) salt (2:1:1))	10138-04-2	N.I.S.	269.02	mg/m3	N	11.00	Fe.N.H3.2(H2.S.O4)
1327	Ferric chloride	7705-08-0	FAU000	162.20	mg/m3	Y	6.63	Cl3.Fe
1328	Ferric chloride hexahydrate	10025-77-1	FAW000	270.32	mg/m3	Y	11.05	Cl3.Fe..6(H2.O)
1329	Ferric fluoride	7783-50-8	FAX000	112.85	mg/m3	Y	4.61	Fe.F3
1330	Ferric hydroxide; (Iron(III) hydroxide)	1309-33-7	N.I.S.	106.87	mg/m3	N	4.37	Fe.(O.H)3
1331	Ferric nitrate	10421-48-4	FAY200	241.88	mg/m3	N	9.89	Fe.(N.O3)3
1332	Ferric nitrate nonahydrate; (Iron(III) nitrate nonahydrate (1:3:9))	7782-61-8	IHC000	404.06	mg/m3	Y	16.51	N3.O9..Fe..9(H2.O)
1333	Ferric phosphate	10045-86-0	N.I.S.	153.84	mg/m3	N	6.29	Fe.O4.P
1334	Ferric sulfate; (Iron(III) sulfate)	10028-22-5	FBA000	399.88	mg/m3	N	16.34	Fe2.(S.O4)3
1335	Ferrous ammonium sulfate	10045-89-3	N.I.S.	284.07	mg/m3	N	11.61	Fe.(S.O4).(N.H4)..2(S.O4).6(H2.O)
1336	Ferrous carbonate	563-71-3	FBH100	115.86	mg/m3	N	4.74	Fe..C.O3
1337	Ferrous chloride	7758-94-3	FBI000	126.75	mg/m3	N	5.18	Cl2'Fe
1338	Ferrous disulfide; (Iron disulfide)	12068-85-8	IGV000	119.97	mg/m3	N	4.90	Fe.S2
1339	Ferrous hydroxide; (Iron(III) hydroxide)	18624-44-7	N.I.S.	89.86	mg/m3	N	3.67	Fe.(OH)2

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1326	Ferric ammonium sulfate; (Sulfuric acid, ammonium iron(3e+) salt (2:1:1))	10138-04-2	S							
1327	Ferric chloride	7705-08-0	S hygr	303	315	1	194	2.9	3	
1328	Ferric chloride hexahydrate	10025-77-1	S	37				1.82	3	
1329	Ferric fluoride	7783-50-8	S	1000				3.52	3	
1330	Ferric hydroxide; (Iron(III) hydroxide)	1309-33-7	S	500	dec			3.65		
1331	Ferric nitrate	10421-48-4	S	47.2	125 dec			1.684	2	
1332	Ferric nitrate nonahydrate; (Iron(III) nitrate nonahydrate (1:3:9))	7782-61-8	S deliq	47.2	decomp			1.68 @ 21C	2	
1333	Ferric phosphate	10045-86-0	S					2.87	3	
1334	Ferric sulfate; (Iron(III) sulfate)	10028-22-5	S	480 dec				3.097	D	
1335	Ferrous ammonium sulfate	10045-89-3	S	100-110				1.865		
1336	Ferrous carbonate	563-71-3	S	dec				3.9	1	
1337	Ferrous chloride	7758-94-3	Shygr	676	1012	10	700	3.16	3	
1338	Ferrous disulfide; (Iron disulfide)	12068-85-8								
1339	Ferrous hydroxide; (Iron(III) hydroxide)	18624-44-7	S	140 dec				3.4		

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1326	Ferric ammonium sulfate; (Sulfuric acid, ammonium iron(3e+) salt (2:1:1))	10138-04-2	08/07/98		10/15/06		NA
1327	Ferric chloride	7705-08-0	07/09/97		10/15/06		NA
1328	Ferric chloride hexahydrate	10025-77-1	01/04/99		10/15/06		NA
1329	Ferric fluoride	7783-50-8					NA
1330	Ferric hydroxide; (Iron(III) hydroxide)	1309-33-7		03/10/08		OHMTADS.	NA
1331	Ferric nitrate	10421-48-4	08/21/96		01/15/08	GOEV.	NA
1332	Ferric nitrate nonahydrate; (Iron(III) nitrate nonahydrate (1:3:9))	7782-61-8			01/16/08	GOEV, RTECS.	NA
1333	Ferric phosphate	10045-86-0	01/04/99	01/15/08		GOEV.	NA
1334	Ferric sulfate; (Iron(III) sulfate)	10028-22-5	08/21/96	01/16/08		GOEV, RTECS.	NA
1335	Ferrous ammonium sulfate	10045-89-3	08/07/98				NA
1336	Ferrous carbonate	563-71-3		03/10/08		HSDB.	NA
1337	Ferrous chloride	7758-94-3	08/07/98	10/15/06			NA
1338	Ferrous disulfide; (Iron disulfide)	12068-85-8	08/07/98	10/15/06			NA
1339	Ferrous hydroxide; (Iron(III) hydroxide)	18624-44-7	09/30/97	02/21/08	01/24/08	GOEV, OHMTADS.	NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1340	Ferrous sulfamate	14017-39-1	N.I.S.	250.02	mg/m3	N	10.22	Fe2.H3..N.O3.S
1341	Ferrous sulfate	7720-78-7	FBN100	151.91	mg/m3	N	6.21	Fe.S.O4
1342	Ferrous sulfate heptahydrate	7782-63-0	FBO000	278.05	mg/m3	N	11.36	Fe.S.O4..7(H2.O)
1343	Fibrous glass; (Fiber glass; Glass frit; Synthetic vitreous fibers)	65997-17-3	N.I.S.		mg/m3	N		Bx.Siy.Oz
1344	Fluenetil	4301-50-2	FDB200	258.31	mg/m3	N	10.56	C16.H15.F.O2
1345	Fluoboric acid; (Tetrafluoroboric acid)	16872-11-0	FDD125	87.82	mg/m3	Y	3.59	B.F4.H
1346	Fluoranthene	206-44-0	FDF000	202.26	mg/m3	N	8.27	C16.H10
1347	Fluorene, 9H-	86-73-7	FDI100	166.23	mg/m3	N	6.79	C13.H10
1348	Fluorides (as F)	16984-48-8	FEX875	19.00	mg/m3	Y	0.78	[Unspecified]
1349	**Fluorine**	**7782-41-4**	FEZ000	38.00	ppm	Y	1.55	F2
1350	Fluoro-2-nitrobenzene, 1-; (o-Fluoronitrobenzene)	1493-27-2	N.I.S.	141.10	mg/m3	N	5.77	F.C6.H4.N.O2
1351	Fluoro-4-nitrophenol, 2-	403-19-0	N.I.S. etc.	157.10	mg/m3	Y	6.42	C6.H4.F.N.O3
1352	Fluoro-6-nitrophenol, 2-	1526-17-6	N.I.S. etc.	157.10	mg/m3	Y	6.42	C6.H4.F.N.O3
1353	Fluoroacetamide	640-19-7	FFF000	77.07	mg/m3	N	3.15	C2.H4.F.N.O

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1340	Ferrous sulfamate	14017-39-1	S							
1341	Ferrous sulfate	7720-78-7	S hygr					1.89	3	
1342	Ferrous sulfate heptahydrate	7782-63-0	S	64				2.99 - 3.08	3	
1343	Fibrous glass; (Fiber glass; Glass frit; Synthetic vitreous fibers)	65997-17-3	S							
1344	Fluenetil	4301-50-2	S			2.5E-06	25		3	
1345	Fluoboric acid; (Tetrafluoroboric acid)	16872-11-0	L		130 dec			1.84	2	
1346	Fluoranthene	206-44-0	S	110	250-251	0.01	20		3	
1347	Fluorene, 9H-	86-73-7	S	116	295 dec				1	
1348	Fluorides (as F)	16984-48-8	S						3	
1349	**Fluorine**	**7782-41-4**	G	-219.4	-188.3	>760	20	1.695 vap	3	
1350	Fluoro-2-nitrobenzene, 1-; (o-Fluoronitrobenzene)	1493-27-2	S	27	206-207			1.338	2	
1351	Fluoro-4-nitrophenol, 2-	403-19-0	S	120-122						
1352	Fluoro-6-nitrophenol, 2-	1526-17-6								
1353	Fluoroacetamide	640-19-7	S	107-109	250	0.001	25		3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1340	Ferrous sulfamate	14017-39-1	08/07/98				NA
1341	Ferrous sulfate	7720-78-7	08/21/96	10/15/06			NA
1342	Ferrous sulfate heptahydrate	7782-63-0	08/21/96				NA
1343	Fibrous glass; (Fiber glass; Glass frit; Synthetic vitreous fibers)	65997-17-3	09/30/97	10/15/06			NA
1344	Fluenetil	4301-50-2		03/10/08		RTECS, SAX.	NA
1345	Fluoboric acid; (Tetrafluoroboric acid)	16872-11-0		10/15/06			NA
1346	Fluoranthene	206-44-0	09/30/97				NA
1347	Fluorene, 9H-	86-73-7	09/30/97				NA
1348	Fluorides (as F)	16984-48-8	08/07/98				NA
1349	**Fluorine**	**7782-41-4**	10/31/92	07/18/08	08/14/07	GOEV, EPA.	4
1350	Fluoro-2-nitrobenzene, 1-; (o-Fluoronitrobenzene)	1493-27-2	04/15/07	04/20/07	04/20/07		NA
1351	Fluoro-4-nitrophenol, 2-	403-19-0		05/17/07	05/17/07	Intertox	NA
1352	Fluoro-6-nitrophenol, 2-	1526-17-6		05/17/07	05/17/07	Intertox	NA
1353	Fluoroacetamide	640-19-7		03/10/08	03/10/08	EPA, RTECS.	NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1354	Fluoroacetic acid, sodium salt; (Sodium fluoroacetate)	62-74-8	SHG500	100.03	mg/m3	Y	4.09	C2.H2.F.O2..Na
1355	Fluoroacetic acid; (Fluoroethanoic acid)	144-49-0	FIC000	78.05	mg/m3	N	3.19	C2.H3.F.O2
1356	Fluoroacetyl chloride	359-06-8	FFR000	96.49	mg/m3	N	3.94	C2.H2.Cl.F.O
1357	Fluoroaniline, p-	371-40-4	FFY000	111.13	mg/m3	Y	4.54	C6.H6.F.N
1358	Fluorobenzene	462-06-6	FGA000	96.11	mg/m3	Y	3.93	C6.H5.F
1359	**Fluorosulfonic acid; (Fluorosulfuric acid)**	**7789-21-1**	FLZ000	100.07	mg/m3	N	4.09	F.H.O3.S
1360	Fluorotrimethylsilane	420-56-4	N.I.S.	92.00	ppm	Y	3.76	(C.H3)3.Si.F
1361	Fluorouracil	51-21-8	FMM000	130.09	mg/m3	Y	5.32	C4.H3.F.N2.O2
1362	Fonofos	944-22-9	FMU045	246.34	mg/m3	N	10.07	C10.H15.O.P.S2
1363	Food Red 15; (FD&C Red No. 19)	81-88-9	FAG070	479.06	mg/m3	N	19.58	C28.H31.N2.O3..Cl
1364	Forane	26675-46-7	IKS400	184.50	ppm	N	7.54	C3.H2.Cl.F5.O
1365	**Formaldehyde**	**50-00-0**	FMV000	30.03	ppm	Y	1.23	H.C.H.O
1366	Formaldehyde cyanohydrin; (Hydroxyacetonitrile; Glycolonitrile)	107-16-4	HIM500	57.06	ppm	Y	2.33	C2.H3.N.O
1367	Formamide	75-12-7	FMY000	45.05	ppm	Y	1.84	C.H3.N.O

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1354	Fluoroacetic acid, sodium salt; (Sodium fluoroacetate)	62-74-8	S	200					3	
1355	Fluoroacetic acid; (Fluoroethanoic acid)	144-49-0	S	35.3	167-168	1.9	25	1.393 @ 36C	3	
1356	Fluoroacetyl chloride	359-06-8	L		73	80	25		3	
1357	Fluoroaniline, p-	371-40-4	L	-1.9	188	1	25	1.1725 @ 20C	3	
1358	Fluorobenzene	462-06-6	L	-40	85.2			1.024	3	
1359	**Fluorosulfonic acid; (Fluorosulfuric acid)**	**7789-21-1**	L	-89	163			1.726	3	
1360	Fluorotrimethylsilane	420-56-4	L						3	20950
1361	Fluorouracil	51-21-8	S	282-283	361	0.00001	25		3	
1362	Fonofos	944-22-9	L		380	0.00021	25	1.16	3	
1363	Food Red 15; (FD&C Red No. 19)	81-88-9	S						2	
1364	Forane	26675-46-7							2	
1365	**Formaldehyde**	**50-00-0**	G	-118?	-19	>760	20	1.083	3	70000
1366	Formaldehyde cyanohydrin; (Hydroxyacetonitrile; Glycolonitrile)	107-16-4	L	<-72	183	1.8	25	1.1	3	
1367	Formamide	75-12-7	L	2.5	70.5	29.7	129.4	1.134	3	27000

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1354	Fluoroacetic acid, sodium salt; (Sodium fluoroacetate)	62-74-8					NA
1355	Fluoroacetic acid; (Fluoroethanoic acid)	144-49-0					NA
1356	Fluoroacetyl chloride	359-06-8					NA
1357	Fluoroaniline, p-	371-40-4			04/20/07		NA
1358	Fluorobenzene	462-06-6					1
1359	**Fluorosulfonic acid; (Fluorosulfuric acid)**	**7789-21-1**	04/03/08	04/03/08	04/03/08	AIHA, GOEV, HSDB.	
1360	Fluorotrimethylsilane	420-56-4	03/01/00				NA
1361	Fluorouracil	51-21-8					NA
1362	Fonofos	944-22-9					NA
1363	Food Red 15; (FD&C Red No. 19)	81-88-9					NA
1364	Forane	26675-46-7					NA
1365	**Formaldehyde**	**50-00-0**	10/31/92	02/04/08	08/14/07	GOEV, EPA.	3
1366	Formaldehyde cyanohydrin; (Hydroxyacetonitrile; Glycolonitrile)	107-16-4					NA
1367	Formamide	75-12-7	01/04/99				2

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1368	Formetanate hydrochloride	23422-53-9	DSO200	257.75	mg/m3	N	10.53	C11.H15.N3.O2.Cl.H
1369	Formic acid	64-18-6	FNA000	46.03	ppm	Y	1.88	H.C.O.O.H
1370	Formic acid, 2-propenyl ester; (Allyl formate)	1838-59-1	AGH000	86.10	mg/m3	N	3.52	C4.H6.O2
1371	Formic acid, butyl ester; (n-Butyl formate)	592-84-7	BRK000	102.15	ppm	N	4.18	C5-H10-O2
1372	Formothion	2540-82-1	DRR200	257.28	mg/m3	N	10.52	C6.H12.N.O4.P.S2
1373	Formparanate	17702-57-7	FNE500	235.32	mg/m3	N	9.62	C12.H17.N3.O2
1374	Formylpiperidine, 1-	2591-86-8	FOH000	113.18	ppm	N	4.63	C6.H11.N.O.
1375	Fosthietan	21548-32-3	DHH200	241.28	mg/m3	N	9.86	C6.H12.N.O3.P.S2
1376	Fuberidazole	3878-19-1	FQK000	184.21	mg/m3	N	7.53	C11H8N2O
1377	Fuel oil, residual	68476-33-5	FOP200		mg/m3	N		[Unspecified]
1378	Fuller's earth	8031-18-3	KBB600		mg/m3	N		Aluminum magnesium silicate
1379	Fulminic acid; (Carbyloxime)	506-85-4	FOS050	43.02	ppm	N	1.76	CHNO
1380	Fumaric acid	110-17-8	FOU000	116.08	mg/m3	Y	4.74	C4.H4.O4
1381	**Furan**	**110-00-9**	FPK000	68.08	ppm	**N**	2.78	**C4.H4O**

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1368	Formetanate hydrochloride	23422-53-9	S	102	440	1E-07	25		3	
1369	Formic acid	64-18-6	L	8.3	100.8	35	20	1.22	3	120000
1370	Formic acid, 2-propenyl ester; (Allyl formate)	1838-59-1	L		83			0.948 @ 18C	3	
1371	Formic acid, butyl ester; (n-Butyl formate)	592-84-7	L	-90	106	40	31.6	0.911	3	17000
1372	Formothion	2540-82-1	L	25-26	250	8.5E-06	25	1.361 @ 20C	3	
1373	Formparanate	17702-57-7	S		385	2.5E-06	25		3	
1374	Formylpiperidine, 1-	2591-86-8	L	-30.8	222.5			1.019	3	
1375	Fosthietan	21548-32-3	L		250	6.5E-06	25	1.3	3	
1376	Fuberidazole	3878-19-1	S	286		0.00001	25		3	
1377	Fuel oil, residual	68476-33-5	L						3	
1378	Fuller's earth	8031-18-3	S						1	
1379	Fulminic acid; (Carbyloxime)	506-85-4	L unstabl						3	
1380	Fumaric acid	110-17-8	S	300-302	290	0.000154	25	1.635 @ 20C	3	
1381	**Furan**	**110-00-9**	**L**	**-86.7**	**31.4**	**600**	**25**	**0.964**	**3**	23000

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1368	Formetanate hydrochloride	23422-53-9					NA
1369	Formic acid	64-18-6	08/21/96				3
1370	Formic acid, 2-propenyl ester; (Allyl formate)	1838-59-1					NA
1371	Formic acid, butyl ester; (n-Butyl formate)	592-84-7					2
1372	Formothion	2540-82-1					NA
1373	Formparanate	17702-57-7					NA
1374	Formylpiperidine, 1-	2591-86-8					NA
1375	Fosthietan	21548-32-3					NA
1376	Fuberidazole	3878-19-1					NA
1377	Fuel oil, residual	68476-33-5	07/09/97				NA
1378	Fuller's earth	8031-18-3					NA
1379	Fulminic acid; (Carbyloxime)	506-85-4					NA
1380	Fumaric acid	110-17-8					NA
1381	**Furan**	**110-00-9**	08/21/96	02/04/08	08/14/07	EPA.	2

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1382	**Furancarboxaldehyde, 2-; (Furfural)**	**98-01-1**	FPQ875	96.09	ppm	Y	3.93	O.C.H..C.H.C.H..C.C.O.H
1383	Furancarboxylic acid, ethyl ester, 2-; (Ethyl furoate)	614-99-3	EKM000	140.15	ppm	Y	5.73	C7.H8.O3
1384	Furfuryl alcohol	98-00-0	FPU000	98.11	ppm	Y	4.01	C5.H6.O2
1385	Fusariotoxin T2; (T2-Trichothecene)	21259-20-1	FQS000	466.58	mg/m3	Y	19.07	C24.H34.O9
1386	Gadolinium	7440-54-2	GAF000	157.25	mg/m3	N	6.43	Gd
1387	Gadolinium chloride hexahydrate	13450-84-5	N.I.S.	371.72	mg/m3	N	15.19	Gd.Cl3..6(H2.O)
1388	Gadolinium hydroxide	16469-18-4	N.I.S.	208.27	mg/m3	N	8.51	Gd.(O.H)3
1389	Gadolinium nitrate, solid	10168-81-7	GAL000	343.28	mg/m3	N	14.03	Gd.(N.O3)3
1390	Gadolinium nitrite	z-0022	N.I.S. etc.	295.25	mg/m3	N	12.07	Gd.(N.O2)3
1391	Gadolinium(III) oxide	12064-62-9	GAP000	362.50	mg/m3	Y	14.82	Gd2.O3
1392	Gallic acid monohydrate	5995-86-8	N.I.S. etc.	188.14	mg/m3	N	7.69	C7.H8.O6
1393	Gallium	7440-55-3	GBG000	69.72	mg/m3	N	2.85	Ga
1394	Gallium oxide	12024-21-4	GBS050	187.44	mg/m3	N	7.66	Ga2.O3
1395	Gallium trichloride	13450-90-3	GBM000	176.07	mg/m3	N	7.20	Ga.Cl3

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1382	**Furancarboxaldehyde, 2-; (Furfural)**	**98-01-1**	L		162 @ 764mm			1.154-1.158	3	21000
1383	Furancarboxylic acid, ethyl ester, 2-; (Ethyl furoate)	614-99-3	S	34	195					
1384	Furfuryl alcohol	98-00-0	L	-31	171	1	31.8	1.129	3	18000
1385	Fusariotoxin T2; (T2-Trichothecene)	21259-20-1	S	151-152					2	
1386	Gadolinium	7440-54-2	S	1312	3273			7.898	2	
1387	Gadolinium chloride hexahydrate	13450-84-5	S							
1388	Gadolinium hydroxide	16469-18-4	S							
1389	Gadolinium nitrate, solid	10168-81-7	S						3	
1390	Gadolinium nitrite	z-0022	S							
1391	Gadolinium(III) oxide	12064-62-9	S hygr	2339	3900			7.407 @ 15C	1	
1392	Gallic acid monohydrate	5995-86-8	S	251						
1393	Gallium	7440-55-3	S	29.78	2403			5.904	3	
1394	Gallium oxide	12024-21-4	S	1900				5.88	1	
1395	Gallium trichloride	13450-90-3	S/L	78	201.3			2.47 @ 26C	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1382	**Furancarboxaldehyde, 2-; (Furfural)**	**98-01-1**	11/15/96				3
1383	Furancarboxylic acid, ethyl ester, 2-; (Ethyl furoate)	614-99-3					NA
1384	Furfuryl alcohol	98-00-0	09/30/97				3
1385	Fusariotoxin T2; (T2-Trichothecene)	21259-20-1	01/04/99				NA
1386	Gadolinium	7440-54-2					NA
1387	Gadolinium chloride hexahydrate	13450-84-5			04/20/07		NA
1388	Gadolinium hydroxide	16469-18-4					NA
1389	Gadolinium nitrate, solid	10168-81-7	08/07/98				NA
1390	Gadolinium nitrite	z-0022					
1391	Gadolinium(III) oxide	12064-62-9					NA
1392	Gallic acid monohydrate	5995-86-8					NA
1393	Gallium	7440-55-3	08/07/98				NA
1394	Gallium oxide	12024-21-4	08/07/98				NA
1395	Gallium trichloride	13450-90-3					3

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1396	Gallium trifluoride	7783-51-9	N.I.S.	126.72	mg/m3	N	5.18	Ga.F3
1397	Gasoline	8006-61-9	GBY000	72.00	ppm	Y	2.94	[Unspecified]
1398	Gelatin; (Pharmagel A)	9000-70-8	PCU360		mg/m3	N		(Unknown)
1399	Germane; (Germanium tetrahydride)	7782-65-2	GEI100	76.63	ppm	N	3.13	Ge.H4
1400	Germanium	7440-56-4	GDU000	72.59	mg/m3	N	2.97	Ge
1401	Germanium oxide	1310-53-8	GEC000	104.59	mg/m3	N	4.27	Ge.O2
1402	Germanium tetrafluoride	7783-58-6	N.I.S.	148.60	mg/m3	Y	6.07	Ge.F4
1403	Germanous acid	z-0023	GEA000	122.60	mg/m3	N	5.01	Ge.H2.O3
1404	Giemsa's stain; (… blood stain)	51811-82-6	N.I.S.		mg/m3	N		(Unknown)
1405	Gluconic acid, D-	526-95-4	N.I.S.	196.18	mg/m3	N	8.02	C6.H12.O7
1406	Glucose monohydrate, D(+)-; (Dextrose)	14431-43-7	N.I.S. etc.	198.17	mg/m3	N	8.10	C6.H12.O6..H2.O
1407	Glucose, alpha-D-; (alpha-Dextrose)	492-62-6	(GFG000)	180.18	mg/m3	N	7.36	C6.H12.O6
1408	Glucose, D-; (Dextrose, anhydrous)	50-99-7	GFG000	180.18	mg/m3	N	7.36	C6.H12.O6
1409	Glutamic acid, L-; ((S)-(+)-Glutamic acid)	56-86-0	GFO000	147.15	mg/m3	N	6.01	C5.H9.N.O4

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1396	Gallium trifluoride	7783-51-9	S						3	
1397	Gasoline	8006-61-9	L		39 to 204			<1	3	13000
1398	Gelatin; (Pharmagel A)	9000-70-8	S					0.68	D	
1399	Germane; (Germanium tetrahydride)	7782-65-2	G	-165	-90			1.523 @ -142C	3	
1400	Germanium	7440-56-4	S	937.2	2850			5.323	3	
1401	Germanium oxide	1310-53-8	S	1115 sol				4.703	3	
1402	Germanium tetrafluoride	7783-58-6	G	-15	-36.5					
1403	Germanous acid	z-0023	S							
1404	Giemsa's stain; (… blood stain)	51811-82-6	S	300				0.89		
1405	Gluconic acid, D-	526-95-4	S	131				1.24	2	
1406	Glucose monohydrate, D(+)-; (Dextrose)	14431-43-7	S						0	
1407	Glucose, alpha-D-; (alpha-Dextrose)	492-62-6	S					1.544	2	
1408	Glucose, D-; (Dextrose, anhydrous)	50-99-7	S	146				1.544	2	
1409	Glutamic acid, L-; ((S)-(+)-Glutamic acid)	56-86-0	S	194				1.4601 @ 20C	1	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1396	Gallium trifluoride	7783-51-9	08/07/98				NA
1397	Gasoline	8006-61-9	09/30/97				1
1398	Gelatin; (Pharmagel A)	9000-70-8					NA
1399	Germane; (Germanium tetrahydride)	7782-65-2					4
1400	Germanium	7440-56-4					NA
1401	Germanium oxide	1310-53-8	08/07/98				NA
1402	Germanium tetrafluoride	7783-58-6					NA
1403	Germanous acid	z-0023					
1404	Giemsa's stain; (… blood stain)	51811-82-6					NA
1405	Gluconic acid, D-	526-95-4			04/20/07		NA
1406	Glucose monohydrate, D(+)-; (Dextrose)	14431-43-7			04/20/07		NA
1407	Glucose, alpha-D-; (alpha-Dextrose)	492-62-6					NA
1408	Glucose, D-; (Dextrose, anhydrous)	50-99-7					NA
1409	Glutamic acid, L-; ((S)-(+)-Glutamic acid)	56-86-0					NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1410	**Gluteraldehyde**	**111-30-8**	GFQ000	100.13	ppm	Y	4.09	C5.H8.O2
1411	Glycerine (mist); (Glycerol, glycerin)	56-81-5	GGA000	92.11	mg/m3	Y	3.76	H.O.C.H2.C.H..(O.H).C.H2.C.H
1412	Glycerine carbonate; (4-Hydroxymethyl]-1,3-dioxolan-2-one)	931-40-8	N.I.S. etc.	118.09	mg/m3	N	4.83	C4.H6.O4
1413	Glyceryl monostearate; (Octadecanoic acid, monoester with 1,2,3-propanetriol)	31566-31-1	OAV000	358.63	mg/m3	N	14.66	C21.H42.O4
1414	Glycidaldehyde	765-34-4	GGW000	72.07	ppm	Y	2.95	C3.H4.O2
1415	Glycidol; (Oxiranemethanol)	556-52-5	GGW500	74.09	ppm	Y	3.03	C3.H6.O2
1416	Glycidoxypropyltrimethoxysilane; (3-(2,3-Epoxypropoxy) propyltrimetyh-oxysilane)	2530-83-8	ECH000	236.38	mg/m3	N	9.66	C9.H20.O5.Si
1417	Glycidyl acrylate; (2,3-Epoxypropyl acrylate)	106-90-1	ECH500	128.14	ppm	Y	5.24	C6.H8.O3
1418	Glycine; (Aminoacetic acid)	56-40-6	GHA000	75.08	mg/m3	N	3.07	C2.H5.N.O2
1419	Glycol carbonate; (Ethylene carbonate)	96-49-1	GHM000	88.07	mg/m3	Y	3.60	C3.H4.O3
1420	Glycolic acid	79-14-1	GHO000	79.06	mg/m3	Y	3.23	C2.H4.O3
1421	Glycols, polyethylene, dimethyl ether	24991-55-7	DOM100		mg/m3	N		(C2.H4.O)n.C2.H6.O
1422	Glycols, polyethylene, mono(p-nonylphenyl) ether; (Nonoxynol-9)	26027-38-3	NNB300		mg/m3	N		(C2.H4O)n.C15.H24.O
1423	Glycoluril; (Acetyleneurea)	496-46-8	N.I.S.	142.12	mg/m3	N	5.81	C2.H6.N2.O4

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1410	**Gluteraldehyde**	**111-30-8**	L		71-72				3	
1411	Glycerine (mist); (Glycerol, glycerin)	56-81-5	L	17.9	290	0.0025	50	1.26	3	30000
1412	Glycerine carbonate; (4-Hydroxymethyl]-1,3-dioxolan-2-one)	931-40-8	S		137 @ 0.5 mm			1.4	0	
1413	Glyceryl monostearate; (Octadecanoic acid, monoester with 1,2,3-propanetriol)	31566-31-1	S	58-59				0.97	3	
1414	Glycidaldehyde	765-34-4	L		113			1.1403	3	
1415	Glycidol; (Oxiranemethanol)	556-52-5	L	-45	167 dec	0.9	25	1.115 @ 20C	3	
1416	Glycidoxypropyltrimethoxysilane; (3-(2,3-Epoxypropoxy) propyltrimetyh-oxysilane)	2530-83-8	L		290			1.065-1.075	2	
1417	Glycidyl acrylate; (2,3-Epoxypropyl acrylate)	106-90-1	L	-41.5	57.2 @ 2mm			1.1074 @ 20C	3	
1418	Glycine; (Aminoacetic acid)	56-40-6	S	262 dec				1.1607	2	
1419	Glycol carbonate; (Ethylene carbonate)	96-49-1	S	36.4	248	0.01	20	1.322 @ 40C	2	
1420	Glycolic acid	79-14-1	S	63(alpha) 79(beta)	100 dec	8.1	80	1.49	2	
1421	Glycols, polyethylene, dimethyl ether	24991-55-7	L						D	
1422	Glycols, polyethylene, mono(p-nonylphenyl) ether; (Nonoxynol-9)	26027-38-3	L (n<15)					1.06	3	
1423	Glycoluril; (Acetyleneurea)	496-46-8	S	300 dec						

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1410	**Gluteraldehyde**	**111-30-8**	01/04/99		08/15/07	GOEV, AIHA.	NA
1411	Glycerine (mist); (Glycerol, glycerin)	56-81-5	08/21/96				1
1412	Glycerine carbonate; (4-Hydroxymethyl]-1,3-dioxolan-2-one)	931-40-8			04/20/07		NA
1413	Glyceryl monostearate; (Octadecanoic acid, monoester with 1,2,3-propanetriol)	31566-31-1	11/15/96				NA
1414	Glycidaldehyde	765-34-4	09/30/97				NA
1415	Glycidol; (Oxiranemethanol)	556-52-5			04/20/07		NA
1416	Glycidoxypropyltrimethoxysilane; (3-(2,3-Epoxypropoxy) propyltrimetyh-oxysilane)	2530-83-8			04/20/07		NA
1417	Glycidyl acrylate; (2,3-Epoxypropyl acrylate)	106-90-1			04/20/07		2
1418	Glycine; (Aminoacetic acid)	56-40-6					NA
1419	Glycol carbonate; (Ethylene carbonate)	96-49-1					2
1420	Glycolic acid	79-14-1					NA
1421	Glycols, polyethylene, dimethyl ether	24991-55-7					NA
1422	Glycols, polyethylene, mono(p-nonylphenyl) ether; (Nonoxynol-9)	26027-38-3	01/04/99				NA
1423	Glycoluril; (Acetyleneurea)	496-46-8					NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1424	Glyoxal	107-22-2	GIK000	58.04	mg/m3	Y	2.37	C2.H2.O2
1425	Goethite; (Iron hydroxide oxide)	1310-14-1	N.I.S.	88.85	mg/m3	N	3.63	Fe.O.O.H
1426	Gold	7440-57-5	GIS000	196.97	mg/m3	N	8.05	Au
1427	Graphite; (Mineral carbon)	7782-42-5	CBT500	12.01	mg/m3	N	0.49	C
1428	Grease; (Animal grease, inedible)	68153-81-1	N.I.S.		mg/m3	N		(Unknown)
1429	Guanidine, N-methyl-N'-nitro-N-nitroso-	70-25-7	MMP000	147.12	mg/m3	N	6.01	C2.H5.N5.O3
1430	Guanidinehydrochloride	50-01-1	GKY000	95.53	mg/m3	Y	3.90	C.H5.N3..Cl.H
1431	Hafnium	7440-58-6	HAC000	178.49	mg/m3	N	7.30	Hf
1432	Hafnium oxide	12055-23-1	N.I.S.	210.49	mg/m3	N	8.60	HfO2
1433	Halon 1211; (Bromochlorodifluoromethane)	353-59-3	BNA250	165.37	ppm	N	6.76	CBrClF2
1434	Hansa yellow	13515-40-7	N.I.S.	390.61	mg/m3	N	15.96	C17-H15-Cl-N4-O5
1435	Helium	7440-59-7	HAM500	4.00	ppm	N	0.16	He
1436	Hematoxylin	517-28-2	HAP500	302.30	mg/m3	N	12.36	C16H14O6
1437	Heptachlor	76-44-8	HAR000	373.30	mg/m3	N	15.26	C10H5Cl7

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1424	Glyoxal	107-22-2	L	15	51 @ 776mm	255	25	1.29 @ 20C	3	73300
1425	Goethite; (Iron hydroxide oxide)	1310-14-1	S					4.26		
1426	Gold	7440-57-5	S	1064.76	2700	1	1869	19.3	1	
1427	Graphite; (Mineral carbon)	7782-42-5	S	3652-3657	subl	1	3586	2.25	1	
1428	Grease; (Animal grease, inedible)	68153-81-1	S/L							
1429	Guanidine, N-methyl-N'-nitro-N-nitroso-	70-25-7	S	118					3	
1430	Guanidinehydrochloride	50-01-1	S	183					3	
1431	Hafnium	7440-58-6	S	2503	4450			13.31	3	
1432	Hafnium oxide	12055-23-1	S	2812	5400			9.68		
1433	Halon 1211; (Bromochlorodifluoromethane)	353-59-3	G	-160.5	-4	>760	20		1	
1434	Hansa yellow	13515-40-7								
1435	Helium	7440-59-7	G	-272.2	-268.9			0.147 @ -270.8C	1	
1436	Hematoxylin	517-28-2	S	100-120					2	
1437	Heptachlor	76-44-8	S	96				1.57-1.59	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1424	Glyoxal	107-22-2			04/20/07		NA
1425	Goethite; (Iron hydroxide oxide)	1310-14-1					NA
1426	Gold	7440-57-5	01/04/99				NA
1427	Graphite; (Mineral carbon)	7782-42-5	01/04/99				NA
1428	Grease; (Animal grease, inedible)	68153-81-1					NA
1429	Guanidine, N-methyl-N'-nitro-N-nitroso-	70-25-7					NA
1430	Guanidinehydrochloride	50-01-1					NA
1431	Hafnium	7440-58-6	09/30/97				NA
1432	Hafnium oxide	12055-23-1	08/07/98				NA
1433	Halon 1211; (Bromochlorodifluoromethane)	353-59-3	08/07/98				NA
1434	Hansa yellow	13515-40-7	09/30/97				NA
1435	Helium	7440-59-7					NA
1436	Hematoxylin	517-28-2	08/07/98				NA
1437	Heptachlor	76-44-8	08/21/96				NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1438	Heptachlor epoxide; (Epoxyheptachlor)	1024-57-3	EBW500	389.30	mg/m3	N	15.91	C10H5Cl7O
1439	Heptachlorodibenzofuran, 1,2,3,4,6,7,8-; (HeptaCDF, 1,2,3,4,6,7,8-)	67562-39-4	N.I.S.	409.28	mg/m3	N	16.73	C12.H.Cl7.O
1440	Heptachlorodibenzofuran, 1,2,3,4,7,8,9- ; (HeptaCDF, 1,2,3,4,7,8,9-)	55673-89-7	N.I.S.	409.28	mg/m3	N	16.73	C12.H.Cl7.O
1441	Heptachlorodibenzo-p-dioxin, 1,2,3,4,6,7,8-; (HeptaCDD, 1,2,3,4,6,7,8-)	35822-46-9	HAR100	425.28	mg/m3	N	17.38	C12.H.Cl7.O2
1442	Heptadecane	629-78-7	HAS100	240.53	ppm	N	9.83	C17-H36
1443	Heptafluorobutyric acid	375-22-4	HAX500	214.05	mg/m3	Y	8.75	C4.H.F7.O2
1444	Heptafluorotetrahydro-5-(nonafluorobutyl)furan, 2,2,3,3,4,4,5-; (Perfluoro-2-butyltetrahydrofuran; Fluorinert FC-75)	335-36-4	N.I.S.	416.06	mg/m3	N	17.00	C8.F16.O
1445	Heptane	142-82-5	HBC500	100.23	ppm	Y	4.10	C7H16O3
1446	Heptanoic acid	111-14-8	HBE000	130.21	ppm	N	5.32	C7.H14.O2
1447	Heptanol, 1-; (Heptyl alcohol)	111-70-6	HBL500	116.23	mg/m3	N	4.75	C7-H16-O
1448	Heptene, 1-	592-76-7	HBJ000	98.21	ppm	N	4.01	C7.H14
1449	Hexacarbonylchromium; (Chromium hexacarbonyl)	13007-92-6	HCB000	220.06	mg/m3	Y	8.99	Cr.(CO)6
1450	Hexachloroacetone	116-16-5	HCL500	264.73	mg/m3	N	10.82	C3.Cl6.O

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1438	Heptachlor epoxide; (Epoxyheptachlor)	1024-57-3	S	161					3	
1439	Heptachlorodibenzofuran, 1,2,3,4,6,7,8-; (HeptaCDF, 1,2,3,4,6,7,8-)	67562-39-4	S						3	
1440	Heptachlorodibenzofuran, 1,2,3,4,7,8,9- ; (HeptaCDF, 1,2,3,4,7,8,9-)	55673-89-7	S						3	
1441	Heptachlorodibenzo-p-dioxin, 1,2,3,4,6,7,8-; (HeptaCDD, 1,2,3,4,6,7,8-)	35822-46-9	S						3	
1442	Heptadecane	629-78-7	L						1	4000
1443	Heptafluorobutyric acid	375-22-4	L	-19.9	120.8			1.645	3	
1444	Heptafluorotetrahydro-5-(nonafluorobutyl)furan, 2,2,3,3,4,4,5-; (Perfluoro-2-butyltetrahydrofuran; Fluorinert FC-75)	335-36-4	S		31-173				3	
1445	Heptane	142-82-5	L	-91.61	98.52	40	22.3	0.684	3	10000
1446	Heptanoic acid	111-14-8	L	-7.5	222.2	0.0056	25	0.918	2	
1447	Heptanol, 1-; (Heptyl alcohol)	111-70-6	L	-34.6	175.8	0.2163	25	0.824 @ 20C	2	
1448	Heptene, 1-	592-76-7	L	-10	93.6	59.3	25	0.6969 @ 20C	3	
1449	Hexacarbonylchromium; (Chromium hexacarbonyl)	13007-92-6	S	152-155					3	
1450	Hexachloroacetone	116-16-5	L	-2	202.2	0.376	20	1.74 @ 12C	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1438	Heptachlor epoxide; (Epoxyheptachlor)	1024-57-3	08/21/96	02/26/08	02/26/08	GOEV, RTECS.	NA
1439	Heptachlorodibenzofuran, 1,2,3,4,6,7,8-; (HeptaCDF, 1,2,3,4,6,7,8-)	67562-39-4	03/01/00				NA
1440	Heptachlorodibenzofuran, 1,2,3,4,7,8,9- ; (HeptaCDF, 1,2,3,4,7,8,9-)	55673-89-7	03/01/00				NA
1441	Heptachlorodibenzo-p-dioxin, 1,2,3,4,6,7,8-; (HeptaCDD, 1,2,3,4,6,7,8-)	35822-46-9	03/01/00				NA
1442	Heptadecane	629-78-7					NA
1443	Heptafluorobutyric acid	375-22-4					NA
1444	Heptafluorotetrahydro-5-(nonafluorobutyl)furan, 2,2,3,3,4,4,5-; (Perfluoro-2-butyltetrahydrofuran; Fluorinert FC-75)	335-36-4	08/07/98		04/20/07		NA
1445	Heptane	142-82-5	08/07/98				1
1446	Heptanoic acid	111-14-8					NA
1447	Heptanol, 1-; (Heptyl alcohol)	111-70-6					0
1448	Heptene, 1-	592-76-7					NA
1449	Hexacarbonylchromium; (Chromium hexacarbonyl)	13007-92-6					NA
1450	Hexachloroacetone	116-16-5	04/15/07		04/20/07		NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1451	Hexachlorobenzene	118-74-1	HCC500	284.76	mg/m3	N	11.64	C6Cl6
1452	**Hexachlorobutadiene**	**87-68-3**	HCD250	260.74	ppm	Y	10.66	Cl2C=CClCCl=CCl2
1453	Hexachlorocyclohexane, alpha-; (Benzene hexachloride-alpha-isomer)	319-84-6	BBQ000	290.82	mg/m3	N	11.89	C6H6Cl6
1454	Hexachlorocyclohexane, beta-1,2,3,4,5,6-; (Benzene hexachloride, trans-alpha-)	319-85-7	BBR000	290.82	mg/m3	N	11.89	C6H6Cl6
1455	Hexachlorocylopentadiene	77-47-4	HCE500	272.75	ppm	Y	11.15	C5Cl6
1456	Hexachlorodibenzodioxin, 1,2,3,4,7,8-; (HexaCDD, 1,2,3,4,7,8-)	39227-28-6	HAJ500	390.84	mg/m3	Y	15.97	C12.H2.Cl6.O2
1457	Hexachlorodibenzofuran, 1,2,3,4,7,8-	70648-26-9	HCH400	374.84	mg/m3	N	15.32	C12H2Cl6O2
1458	Hexachlorodibenzofuran, 1,2,3,6,7,8-	57117-44-9	HCH425	378.84	mg/m3	N	15.48	C12H2Cl6O2
1459	Hexachlorodibenzofuran, 1,2,3,7,8,9-; (HexaCDF, 1,2,3,7,8,9-)	72918-21-9	N.I.S.	374.84	mg/m3	N	15.32	C12.H2.Cl6.O
1460	Hexachlorodibenzofuran, 2,3,4,6,7,8-	60851-34-5	HCH450	374.84	mg/m3	N	15.32	C12H2Cl6O2
1461	Hexachlorodibenzo-p-dioxin, 1,2,3,6,7,8-	57653-85-7	HCF000	390.84	mg/m3	N	15.97	C12H2Cl6O2
1462	Hexachlorodibenzo-p-dioxin, 1,2,3,7,8,9-; (HexaCDD, 1,2,3,7,8,9-)	19408-74-3	HCF120	390.84	mg/m3	N	15.97	C12.H2.Cl6.O2
1463	Hexachloroethane	67-72-1	HCI000	236.72	ppm	N	9.68	Cl3CCCl3
1464	Hexachloronaphthalene	1335-87-1	HCK500	334.82	mg/m3	N	13.68	C10H2Cl6

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1451	Hexachlorobenzene	118-74-1	S	231	323-6	1	114	2.44	3	
1452	**Hexachlorobutadiene**	**87-68-3**	L	-21	211-215	22	100	1.682	3	
1453	Hexachlorocyclohexane, alpha-; (Benzene hexachloride-alpha-isomer)	319-84-6	S	158		0.0317	20	1.87	3	
1454	Hexachlorocyclohexane, beta-1,2,3,4,5,6-; (Benzene hexachloride, trans-alpha-)	319-85-7	S	297					3	
1455	Hexachlorocylopentadiene	77-47-4	L	9.9	239			1.7	3	
1456	Hexachlorodibenzodioxin, 1,2,3,4,7,8-; (HexaCDD, 1,2,3,4,7,8-)	39227-28-6	S	239					3	
1457	Hexachlorodibenzofuran, 1,2,3,4,7,8-	70648-26-9	S (?)						D	
1458	Hexachlorodibenzofuran, 1,2,3,6,7,8-	57117-44-9	S (?)						2	
1459	Hexachlorodibenzofuran, 1,2,3,7,8,9-; (HexaCDF, 1,2,3,7,8,9-)	72918-21-9	S						3	
1460	Hexachlorodibenzofuran, 2,3,4,6,7,8-	60851-34-5	S (?)						3	
1461	Hexachlorodibenzo-p-dioxin, 1,2,3,6,7,8-	57653-85-7	S (?)						3	
1462	Hexachlorodibenzo-p-dioxin, 1,2,3,7,8,9-; (HexaCDD, 1,2,3,7,8,9-)	19408-74-3	S						3	
1463	Hexachloroethane	67-72-1	S	187 subl	subl	0.2	20	2.091	3	
1464	Hexachloronaphthalene	1335-87-1	S						3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1451	Hexachlorobenzene	118-74-1	08/21/96				NA
1452	**Hexachlorobutadiene**	**87-68-3**	10/31/92		08/15/07	GOEV, AIHA.	3
1453	Hexachlorocyclohexane, alpha-; (Benzene hexachloride-alpha-isomer)	319-84-6	09/30/97	05/23/08	05/23/08	GOEV, RTECS.	NA
1454	Hexachlorocyclohexane, beta-1,2,3,4,5,6-; (Benzene hexachloride, trans-alpha-)	319-85-7	08/07/98	06/06/08	06/06/08	GOEV, RTECS.	NA
1455	Hexachlorocylopentadiene	77-47-4	08/21/96				NA
1456	Hexachlorodibenzodioxin, 1,2,3,4,7,8-; (HexaCDD, 1,2,3,4,7,8-)	39227-28-6	03/01/00				NA
1457	Hexachlorodibenzofuran, 1,2,3,4,7,8-	70648-26-9	09/30/97				NA
1458	Hexachlorodibenzofuran, 1,2,3,6,7,8-	57117-44-9	09/30/97				NA
1459	Hexachlorodibenzofuran, 1,2,3,7,8,9-; (HexaCDF, 1,2,3,7,8,9-)	72918-21-9	03/01/00				NA
1460	Hexachlorodibenzofuran, 2,3,4,6,7,8-	60851-34-5	09/30/97				NA
1461	Hexachlorodibenzo-p-dioxin, 1,2,3,6,7,8-	57653-85-7	09/30/97				NA
1462	Hexachlorodibenzo-p-dioxin, 1,2,3,7,8,9-; (HexaCDD, 1,2,3,7,8,9-)	19408-74-3	03/01/00				NA
1463	Hexachloroethane	67-72-1	08/21/96				NA
1464	Hexachloronaphthalene	1335-87-1	09/30/97				NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1465	Hexachlorophene	70-30-4	HCL000	406.89	mg/m3	Y	16.63	C13H6Cl6O2
1466	Hexachloropropene	1888-71-7	HCM000	248.73	ppm	Y	10.17	C3Cl6
1467	Hexadecanamine, 1-	143-27-1	HCO500	241.52	mg/m3	N	9.87	C16.H35.N
1468	Hexadecane	544-76-3	HCO600	226.50	mg/m3	Y	9.26	C16.H34
1469	Hexadecanoic acid; (Palmitic acid)	57-10-3	PAE250	256.48	mg/m3	Y	10.48	C17H32O2
1470	Hexadecanol, 1-	36653-82-4	HCP000	242.50	mg/m3	Y	9.91	C16H34O
1471	Hexadecene, 1-	629-73-2	N.I.S.	224.48	ppm	Y	9.17	C16-H32
1472	Hexadecylpyridinium chloride, 1-; (Cepacol chloride)	123-03-5	CCX000	340.05	mg/m3	Y	13.90	C21.H38.N..Cl
1473	Hexadecyltrimethylammonium chloride	112-02-7	HCQ525	320.07	mg/m3	Y	13.08	C19.H40.Cl.N
1474	Hexafluoro-2-propanol, 1,1,1,3,3,3-	920-66-1	HDC500	168.05	ppm	N	6.87	C3.H2.F6.O
1475	**Hexafluoroacetone**	**684-16-2**	HCZ000	166.03	ppm	Y	6.79	CF3COCF3
1476	Hexafluorobenzene	392-56-3	HDB000	186.06	ppm	N	7.60	C6.F6
1477	Hexafluorobutyne-2; (1,1,1,4,4,4-Hexafluoro-2-butyne)	692-50-2	N.I.S.	162.04	ppm	N	6.62	C4.F6
1478	Hexafluoroethane; (Freon 116; Perfluoroethane)	76-16-4	HDC100	138.02	ppm	N	5.64	C2.F6

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1465	Hexachlorophene	70-30-4	S	165					3	
1466	Hexachloropropene	1888-71-7	L	-72.9	209-210	0.244	25	1.76 @ 20C	3	
1467	Hexadecanamine, 1-	143-27-1	S	46.2	322.5			0.8129 @ 20C	3	20000
1468	Hexadecane	544-76-3	L	18.14	286.5	1	105.3	0.77335	2	
1469	Hexadecanoic acid; (Palmitic acid)	57-10-3	S	63-64	271.5@100			0.849	3	
1470	Hexadecanol, 1-	36653-82-4	S	50	178-182			0.8176 @ 50C/4C	3	
1471	Hexadecene, 1-	629-73-2	L	4.1	284.4			0.7811 @ 20C		
1472	Hexadecylpyridinium chloride, 1-; (Cepacol chloride)	123-03-5	S	80					3	
1473	Hexadecyltrimethylammonium chloride	112-02-7	S							20000
1474	Hexafluoro-2-propanol, 1,1,1,3,3,3-	920-66-1	L	-2.0	59			1.46	3	
1475	**Hexafluoroacetone**	**684-16-2**	G	122	-27	>760		1.65	3	
1476	Hexafluorobenzene	392-56-3	L	3 - 4	81-82			1.61 @ 20C	3	
1477	Hexafluorobutyne-2; (1,1,1,4,4,4-Hexafluoro-2-butyne)	692-50-2	G	-117.4	-24.6					
1478	Hexafluoroethane; (Freon 116; Perfluoroethane)	76-16-4	G		-78.2			4.76 (air=1)	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1465	Hexachlorophene	70-30-4	08/21/96				NA
1466	Hexachloropropene	1888-71-7					NA
1467	Hexadecanamine, 1-	143-27-1					NA
1468	Hexadecane	544-76-3	01/04/99				1
1469	Hexadecanoic acid; (Palmitic acid)	57-10-3	03/01/00				NA
1470	Hexadecanol, 1-	36653-82-4	03/01/00				NA
1471	Hexadecene, 1-	629-73-2					NA
1472	Hexadecylpyridinium chloride, 1-; (Cepacol chloride)	123-03-5					NA
1473	Hexadecyltrimethylammonium chloride	112-02-7					NA
1474	Hexafluoro-2-propanol, 1,1,1,3,3,3-	920-66-1					NA
1475	**Hexafluoroacetone**	**684-16-2**	08/21/96	07/18/08	01/02/08	GOEV, EPA.	NA
1476	Hexafluorobenzene	392-56-3					NA
1477	Hexafluorobutyne-2; (1,1,1,4,4,4-Hexafluoro-2-butyne)	692-50-2					3
1478	Hexafluoroethane; (Freon 116; Perfluoroethane)	76-16-4					NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1479	**Hexafluoropropylene; (Hexafluoropropene)**	**116-15-4**	HDF000	150.03	ppm	N	6.13	C3F6
1480	Hexafluoropropylene-vinylidene fluoride polymer; (Viton)	9011-17-0	N.I.S.		mg/m3	N		(-C3-F6.C2-H2-F2)x
1481	Hexamethylcyclotrisiloxane	541-05-9	N.I.S.	222.46	mg/m3	Y	9.09	(CH3)6Si3O3
1482	Hexamethyldisilazane	999-97-3	HED500	161.44	mg/m3	N	6.60	C6H19NSi2
1483	Hexamethyldisiloxane	107-46-0	HEE000	162.42	ppm	Y	6.64	C6H18OSi
1484	Hexamethylene diisocyanate polymer	28182-81-2	HEG300		mg/m3	Y		(C8.H12.N2.O2)x
1485	Hexamethylene diisocyanate; (1,6-Diisocyanatohexane)	822-06-0	DNJ800	168.22	ppm	N	6.88	C8H12N2O2
1486	Hexamethyleneimine	111-49-9	HDG000	99.20	mg/m3	Y	4.05	C6.H13.N
1487	Hexamethylenetetraamine hydrochloride	58713-21-6	N.I.S. etc.		mg/m3	N		[Unknown]
1488	Hexamethylenetetraamine; (Methenamine)	100-97-0	HEI500	140.22	mg/m3	N	5.73	C6H12N4
1489	Hexamethylphosphoramide	680-31-9	HEK000	179.24	ppm	N	7.33	C6H18N3OP
1490	Hexamethyltetracosane, 2,6,10,15,19,23-; (Squalane)	111-01-3	SLG700	422.92	ppm	Y	17.29	C30.H62
1491	Hexanal	66-25-1	HEM000	100.18	ppm	Y	4.09	C6-H12-O
1492	**Hexane**	**110-54-3**	HEN000	86.20	ppm	Y	3.52	CH3(CH2)4CH3

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1479	**Hexafluoropropylene; (Hexafluoropropene)**	**116-15-4**	G	-156	-29	>760		1.583 @ -40C	3	
1480	Hexafluoropropylene-vinylidene fluoride polymer; (Viton)	9011-17-0	S					1.78		
1481	Hexamethylcyclotrisiloxane	541-05-9	S	64.5	134			1.12	3	
1482	Hexamethyldisilazane	999-97-3	L		125			0.76	2	
1483	Hexamethyldisiloxane	107-46-0	L	-59	101			0.76 @ 20C	1	5000
1484	Hexamethylene diisocyanate polymer	28182-81-2	S						1	
1485	Hexamethylene diisocyanate; (1,6-Diisocyanatohexane)	822-06-0	L		121-122			1.053	3	
1486	Hexamethyleneimine	111-49-9	L	-37	138	8.09	25	0.8643 @ 22C	3	16000
1487	Hexamethylenetetraamine hydrochloride	58713-21-6								
1488	Hexamethylenetetraamine; (Methenamine)	100-97-0	S					1.33 @ -5C	3	
1489	Hexamethylphosphoramide	680-31-9	L	7	233			1.024	3	
1490	Hexamethyltetracosane, 2,6,10,15,19,23-; (Squalane)	111-01-3	L	-38	350			0.8115 @ 15C	1	
1491	Hexanal	66-25-1	L	-56.3	131	11.3	25	0.8335 @ 20C	3	
1492	**Hexane**	**110-54-3**	L	-93.6	68.7	100	15.8	0.655	3	10000

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1479	**Hexafluoropropylene; (Hexafluoropropene)**	**116-15-4**	08/21/96	02/04/08	12/28/07	GOEV, AEPA	NA
1480	Hexafluoropropylene-vinylidene fluoride polymer; (Viton)	9011-17-0					NA
1481	Hexamethylcyclotrisiloxane	541-05-9	03/01/00				NA
1482	Hexamethyldisilazane	999-97-3	08/07/98				NA
1483	Hexamethyldisiloxane	107-46-0					NA
1484	Hexamethylene diisocyanate polymer	28182-81-2	09/30/97				NA
1485	Hexamethylene diisocyanate; (1,6-Diisocyanatohexane)	822-06-0	07/09/97				NA
1486	Hexamethyleneimine	111-49-9					NA
1487	Hexamethylenetetraamine hydrochloride	58713-21-6	07/09/97				NA
1488	Hexamethylenetetraamine; (Methenamine)	100-97-0	07/09/97				NA
1489	Hexamethylphosphoramide	680-31-9	09/30/97				NA
1490	Hexamethyltetracosane, 2,6,10,15,19,23-; (Squalane)	111-01-3					NA
1491	Hexanal	66-25-1					2
1492	**Hexane**	**110-54-3**	11/15/96	02/04/08	08/15/07	GOEV, EPA.	NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1493	Hexanediol diacrylate, 1,6-	13048-33-4	HEQ100	226.30	mg/m3	Y	9.25	C12.H18.O4
1494	Hexanediol, 1,6-; (Hexamethylene glycol)	629-11-8	HEP500	118.20	mg/m3	N	4.83	C6.H14.O2
1495	Hexanehexol, 1,2,3,4,5,6-; (Mannitol)	69-65-8	HER000	182.20	mg/m3	N	7.45	C6.H14.O6
1496	Hexanenitrile	628-73-9	HER500	97.18	ppm	Y	3.97	C8-H11-N
1497	Hexanethiol, 1-; (N-Hexylmercaptan)	111-31-9	HES000	118.26	ppm	Y	4.83	C6.H14.S
1498	Hexanitrostilbene	20062-22-0	N.I.S.	450.23	mg/m3	N	18.40	C14.H6.N6.O12
1499	Hexanoic acid	142-62-1	HEU000	116.18	mg/m3	Y	4.75	C6H12O2
1500	Hexanol, 2-; (2-Hydroxyhexane)	626-93-7	HEU600	102.20	mg/m3	N	4.18	C6.H14.O
1501	Hexanol, n-; (n-Hexyl alcohol)	111-27-3	HFJ500	102.20	ppm	Y	4.18	C6H14O
1502	Hexanone, 2-; (Methyl n-butyl ketone)	591-78-6	HEV000	100.18	ppm	Y	4.09	C6H12O
1503	Hexanone, 3-; (Ethyl propyl ketone)	589-38-8	HEV500	100.18	ppm	Y	4.09	C6-H12-O
1504	Hexanoyl chloride	142-61-0	N.I.S.	134.60	mg/m3	Y	5.50	C6.H11.Cl.O
1505	Hexaphenylcyclotrisiloxane	512-63-0	N.I.S.	594.89	mg/m3	Y	24.31	C36.H30.O3.Si3
1506	**Hexene, 1-**	**592-41-6**	HFB000	84.16	ppm	Y	3.44	C6H12

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1493	Hexanediol diacrylate, 1,6-	13048-33-4	L			0.017	25	1.01	2	
1494	Hexanediol, 1,6-; (Hexamethylene glycol)	629-11-8	S hygr.	42	250	0.0005 (est)	25	0.967 @ 0C	2	
1495	Hexanehexol, 1,2,3,4,5,6-; (Mannitol)	69-65-8	S	167	290-295			1.52 @ 20C	1	
1496	Hexanenitrile	628-73-9	L		163.6				3	
1497	Hexanethiol, 1-; (N-Hexylmercaptan)	111-31-9	L	-80.56	151.11			0.84	2	
1498	Hexanitrostilbene	20062-22-0	S							
1499	Hexanoic acid	142-62-1	L	-1.5	205	0.18	20	0.9295	2	13000
1500	Hexanol, 2-; (2-Hydroxyhexane)	626-93-7	L		139			0.814	2	
1501	Hexanol, n-; (n-Hexyl alcohol)	111-27-3	L	-46.7	157.2	1	24.4	0.8204	3	12000
1502	Hexanone, 2-; (Methyl n-butyl ketone)	591-78-6	L	-56.9	127.2	10	38.8	0.83	3	12000
1503	Hexanone, 3-; (Ethyl propyl ketone)	589-38-8	L		124			0.813 @ 21.8C	3	10000
1504	Hexanoyl chloride	142-61-0	L	-87	123			0.9784 @ 20C	3	
1505	Hexaphenylcyclotrisiloxane	512-63-0	S	184-188	300					
1506	**Hexene, 1-**	**592-41-6**	L	-139.9	64.5	310	38	0.6732	3	12000

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1493	Hexanediol diacrylate, 1,6-	13048-33-4			04/20/07		NA
1494	Hexanediol, 1,6-; (Hexamethylene glycol)	629-11-8					NA
1495	Hexanehexol, 1,2,3,4,5,6-; (Mannitol)	69-65-8					NA
1496	Hexanenitrile	628-73-9					NA
1497	Hexanethiol, 1-; (N-Hexylmercaptan)	111-31-9			04/20/07		NA
1498	Hexanitrostilbene	20062-22-0					NA
1499	Hexanoic acid	142-62-1	01/04/99				3
1500	Hexanol, 2-; (2-Hydroxyhexane)	626-93-7					NA
1501	Hexanol, n-; (n-Hexyl alcohol)	111-27-3	01/04/99				3
1502	Hexanone, 2-; (Methyl n-butyl ketone)	591-78-6	01/04/99				2
1503	Hexanone, 3-; (Ethyl propyl ketone)	589-38-8					1
1504	Hexanoyl chloride	142-61-0			04/20/07		NA
1505	Hexaphenylcyclotrisiloxane	512-63-0					NA
1506	**Hexene, 1-**	**592-41-6**	01/04/99	04/03/08	04/03/08	GOEV, RTECS.	1

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1507	Hexylene glycol	107-41-5	HFP875	118.20	ppm	Y	4.83	C6H14O2
1508	**Hexyltrichlorosilane**	**928-65-4**	HFX500	219.63	ppm	Y	8.98	C6.H13.Cl3.Si
1509	Holmium	7440-60-0	HGF500	164.93	mg/m3	N	6.74	Ho
1510	Holmium trioxide	12055-62-8	N.I.S.	377.86	mg/m3	N	15.44	Ho2-O3
1511	Humic acid, sodium salt	68131-04-4	HGM100		mg/m3	N		
1512	**Hydrazine**	**302-01-2**	HGS000	32.06	ppm	Y	1.31	H2.N=N.H2
1513	Hydrazine hydrate, aequeous solutions	10217-52-4	HGU500	50.08	mg/m3	Y	2.05	H4.N2-H.2O
1514	Hydrazine hydrate; (Hydrazine monohydrate)	7803-57-8	HGU501	50.08	mg/m3	Y	2.05	H4.N2..H2.O
1515	Hydrazine hydrochloride; (Hydrazine monochloride)	2644-70-4	HGV000	68.52	mg/m3	N	2.80	H4N2.2HCl (H4N2.HCl)
1516	Hydrazine nitrate; (Hydrazinium nitrate)	13464-97-6	HGZ000	95.06	mg/m3	N	3.89	H4.N2-H.N.O3
1517	Hydrazine sulfate	10034-93-2	HGW500	130.14	mg/m3	Y	5.32	H4N2.H2SO4
1518	Hydrazine, dihydrochloride	5341-61-7	N.I.S.	104.98	mg/m3	N	4.29	Cl.H..0.5 H4.N2
1519	**Hydriodic acid; (Hydrogen iodide)**	**10034-85-2**	HHI500	127.91	ppm	Y	5.23	HI
1520	**Hydrobromic acid; (Hydrogen bromide)**	**10035-10-6**	HHJ000	80.92	ppm	Y	3.31	BrH

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1507	Hexylene glycol	107-41-5	L	-50	197.1	0.05	20	0.9234	2	10000
1508	**Hexyltrichlorosilane**	**928-65-4**	L		190			1.1100 @ 20C	3	
1509	Holmium	7440-60-0	S		2720	2	1630	8.78	2	
1510	Holmium trioxide	12055-62-8	S	2415				8.41		
1511	Humic acid, sodium salt	68131-04-4	S	>300					3	
1512	**Hydrazine**	**302-01-2**	L	2.2	113.3	10	20	1.1011	3	29000
1513	Hydrazine hydrate, aequeous solutions	10217-52-4	L	-51.7	118.5 @ 740mm			1.03 @ 21C	3	35000
1514	Hydrazine hydrate; (Hydrazine monohydrate)	7803-57-8	L		118.5 @ 740mm			1.03 @ 21C	3	
1515	Hydrazine hydrochloride; (Hydrazine monochloride)	2644-70-4	S	198	200 dec			1.42	3	
1516	Hydrazine nitrate; (Hydrazinium nitrate)	13464-97-6	S	70						
1517	Hydrazine sulfate	10034-93-2	S/L	254 decom				1.378	3	
1518	Hydrazine, dihydrochloride	5341-61-7	S	197 dec				1.42		
1519	**Hydriodic acid; (Hydrogen iodide)**	**10034-85-2**	G	-50.8	-35.38	5940	25	5.66	3	
1520	**Hydrobromic acid; (Hydrogen bromide)**	**10035-10-6**	G	-87	-66.5	760	-66.5	3.5	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1507	Hexylene glycol	107-41-5	01/04/99				2
1508	**Hexyltrichlorosilane**	**928-65-4**	07/02/08	07/18/08	07/02/08	EPA, HSDB.	
1509	Holmium	7440-60-0	04/15/07		04/20/07		NA
1510	Holmium trioxide	12055-62-8					NA
1511	Humic acid, sodium salt	68131-04-4					NA
1512	**Hydrazine**	**302-01-2**	10/31/92	07/18/08	08/15/07	EPA.	4
1513	Hydrazine hydrate, aequeous solutions	10217-52-4					NA
1514	Hydrazine hydrate; (Hydrazine monohydrate)	7803-57-8	04/15/07		04/20/07		NA
1515	Hydrazine hydrochloride; (Hydrazine monochloride)	2644-70-4	08/07/98				NA
1516	Hydrazine nitrate; (Hydrazinium nitrate)	13464-97-6	09/30/97				NA
1517	Hydrazine sulfate	10034-93-2					NA
1518	Hydrazine, dihydrochloride	5341-61-7					NA
1519	**Hydriodic acid; (Hydrogen iodide)**	**10034-85-2**	08/07/98	07/19/08	08/15/07	EPA.	NA
1520	**Hydrobromic acid; (Hydrogen bromide)**	**10035-10-6**	08/07/98	07/19/08	08/15/07	EPA.	3

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1521	Hydrogen	1333-74-0	HHW500	2.02	ppm	N	0.08	H2
1522	**Hydrogen chloride; (Hydrochloric acid)**	**7647-01-0**	HHL000	36.46	ppm	Y	1.49	HCl
1523	**Hydrogen cyanide; (Hydrocyanic acid)**	**74-90-8**	HHS000	27.03	ppm	Y	1.10	HCN
1524	**Hydrogen fluoride; (Hydrofluoric acid)**	**7664-39-3**	HHU500	20.01	ppm	Y	0.82	HF
1525	**Hydrogen peroxide**	**7722-84-1**	HIB000	34.02	ppm	Y	1.39	H2.O2
1526	Hydrogen peroxide - 30%	7722-84-1a	HIB010	34.02	ppm	N	1.39	H2.O2
1527	Hydrogen potassium phthalate; (Phthalic acid, monopotassium salt; Potassium acid phthalate; Potassium biphthalate)	877-24-7	HIB600	204.23	mg/m3	N	8.35	C8.H5.O4.K
1528	**Hydrogen selenide**	**7783-07-5**	HIC000	80.98	ppm	Y	3.31	H2Se
1529	**Hydrogen sulfide**	**7783-06-4**	HIC500	34.08	ppm	Y	1.39	H2.S
1530	Hydrogenated terphenyl	61788-32-7	HHWE800	298.00	mg/m3	N	12.18	
1531	Hydroquinone	123-31-9	HIH000	110.12	mg/m3	Y	4.50	C6H6O2
1532	Hydrotreated (mild & severe) heavy paraffinic distillates	64742-54-7	MQV795		mg/m3	N		[Unspecified]
1533	Hydrotreated middle distillate (Petroleum base oil)	64742-46-7	DXG830		mg/m3	N		

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1521	Hydrogen	1333-74-0	G	-259.18	-252.8	1240000	25	0.070 @ -253C	3	40000
1522	**Hydrogen chloride; (Hydrochloric acid)**	**7647-01-0**	G	-114.4	-85	40	17.8	1.194 @ -26C	3	
1523	**Hydrogen cyanide; (Hydrocyanic acid)**	**74-90-8**	L	-13.3	25.6	630		0.715 @ 0C	3	56000
1524	**Hydrogen fluoride; (Hydrofluoric acid)**	**7664-39-3**	G>19	-83.3	19.4	>760		0.699	3	
1525	**Hydrogen peroxide**	**7722-84-1**	L	-6.7	141.1	5	30	1.46 @ 0C	3	
1526	Hydrogen peroxide - 30%	7722-84-1a	L	-11	150.2			1.4067	2	
1527	Hydrogen potassium phthalate; (Phthalic acid, monopotassium salt; Potassium acid phthalate; Potassium biphthalate)	877-24-7	S	dec				1.6	2	
1528	**Hydrogen selenide**	**7783-07-5**	G	-64	-41.4	7600	23.4		3	
1529	**Hydrogen sulfide**	**7783-06-4**	L	-85.6	-60.6	>760		0.993	3	40000
1530	Hydrogenated terphenyl	61788-32-7	L		340			1.006	3	
1531	Hydroquinone	123-31-9	S	172	285	1	132.4	1.358	3	
1532	Hydrotreated (mild & severe) heavy paraffinic distillates	64742-54-7	L						3	
1533	Hydrotreated middle distillate (Petroleum base oil)	64742-46-7	L		>205			0.8545	2	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1521	Hydrogen	1333-74-0					0
1522	**Hydrogen chloride; (Hydrochloric acid)**	**7647-01-0**	10/31/92	07/18/08	08/15/07	NAS, EPA.	3
1523	**Hydrogen cyanide; (Hydrocyanic acid)**	**74-90-8**	08/21/96	07/16/08	08/15/07	GOEV, EPA.	4
1524	**Hydrogen fluoride; (Hydrofluoric acid)**	**7664-39-3**	10/31/92	07/18/08	08/15/07	EPA.	4
1525	**Hydrogen peroxide**	**7722-84-1**	10/31/92				3
1526	Hydrogen peroxide - 30%	7722-84-1a	04/15/07		04/20/07		
1527	Hydrogen potassium phthalate; (Phthalic acid, monopotassium salt; Potassium acid phthalate; Potassium biphthalate)	877-24-7			05/19/07	RTECS	NA
1528	**Hydrogen selenide**	**7783-07-5**	03/01/00	07/18/08	08/15/07	GOEV, EPA.	NA
1529	**Hydrogen sulfide**	**7783-06-4**	10/31/92	07/18/08	08/15/07	EPA.	4
1530	Hydrogenated terphenyl	61788-32-7	04/15/07		04/20/07		NA
1531	Hydroquinone	123-31-9	08/07/98	07/09/08	07/09/08	GOEV, NIOSH.	2
1532	Hydrotreated (mild & severe) heavy paraffinic distillates	64742-54-7	01/04/99				NA
1533	Hydrotreated middle distillate (Petroleum base oil)	64742-46-7					NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1534	Hydroxy-2-methylpropanoic acid, 2-; (2-Methyllactic acid)	594-61-6	N.I.S.	104.11	mg/m3	N	4.26	C4.H8.O3
1535	Hydroxy-4'-hydroxyethoxy-2-methylpropiophenone, 2-	106797-53-9	N.I.S.	224.28	mg/m3	N	9.17	C12.H16.O4
1536	Hydroxy-4-methyl-2-pentanone, 4-; (Diacetone alcohol)	123-42-2	DBF750	116.18	ppm	Y	4.75	C6H12O2
1537	Hydroxyapatite; (Calcium hydroxyapatite)	1306-06-5	N.I.S.	502.31	mg/m3	N	20.53	Ca5.OH.(PO4)3
1538	Hydroxybenezenesulfonic acid, 4-; (4-Hydroxyphenylsulfonic acid)	98-67-9	HNL600	174.18	mg/m3	N	7.12	C6.H6.O4.S
1539	Hydroxybenzoic acid, 4-; (p-Salicylic acvid)	99-96-7	SAI500	138.12	mg/m3	N	5.65	C7.H6.O3
1540	Hydroxybenzotriazole, 1-; (1-Hydroxybenzotriazole hydrate)	2592-95-2	HJN650	135.14	mg/m3	N	5.52	C6.H5.N3.O
1541	Hydroxyethyl acrylate, 2-; (Acrylic acid, 2-hydroxyethyl ester)	818-61-1	ADV250	116.13	ppm	Y	4.75	C5.H8.O3
1542	Hydroxyethyl methacrylate, 2-	868-77-9	EJH000	130.16	mg/m3	Y	5.32	C6.H10.O3
1543	Hydroxyethyl)-1-piperazineethanesulfonic acid, 4-(2-	7365-45-9	N.I.S.	238.24	mg/m3	N	9.74	C6.H18.N2.O4.S
1544	Hydroxyethylenediaminetriacetic acid, N-	150-39-0	HKS000	278.30	mg/m3	N	11.37	C10-H18-N2-O7
1545	Hydroxyethylidene-1,1-diphosphonic acid, 1-; (Hydroxyethylidine bisphosphonic acid, 1-)	2809-21-4	HKS780	206.03	mg/m3	N	8.42	C2H8O7P2
1546	Hydroxylamine	7803-49-8	HLM500	33.04	mg/m3	Y	1.35	H3NO
1547	Hydroxylamine chloride; (Hydroxylamine hydrochloride)	5470-11-1	HLN000	69.50	mg/m3	Y	2.84	H3NO.ClH

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1534	Hydroxy-2-methylpropanoic acid, 2-; (2-Methyllactic acid)	594-61-6	S	82.5	212					
1535	Hydroxy-4'-hydroxyethoxy-2-methylpropiophenone, 2-	106797-53-9	S							
1536	Hydroxy-4-methyl-2-pentanone, 4-; (Diacetone alcohol)	123-42-2	L	-47	164	1.1	20	0.9306	3	18000
1537	Hydroxyapatite; (Calcium hydroxyapatite)	1306-06-5	S							
1538	Hydroxybenezenesulfonic acid, 4-; (4-Hydroxyphenylsulfonic acid)	98-67-9	S					1.337	1	
1539	Hydroxybenzoic acid, 4-; (p-Salicylic acvid)	99-96-7	S	214.5		1.90E-07	25	1.46	3	
1540	Hydroxybenzotriazole, 1-; (1-Hydroxybenzotriazole hydrate)	2592-95-2	S	157-158					3	
1541	Hydroxyethyl acrylate, 2-; (Acrylic acid, 2-hydroxyethyl ester)	818-61-1	L		220	0.0523	25	1.011	2	18000
1542	Hydroxyethyl methacrylate, 2-	868-77-9	L	-12	103 @ 13C			1.034	2	
1543	Hydroxyethyl)-1-piperazineethanesulfonic acid, 4-(2-	7365-45-9	S	236						
1544	Hydroxyethylenediaminetriacetic acid, N-	150-39-0	S	160-5 dec					3	
1545	Hydroxyethylidene-1,1-diphosphonic acid, 1-; (Hydroxyethylidine bisphosphonic acid, 1-)	2809-21-4	S	105					3	
1546	Hydroxylamine	7803-49-8	L	34	110	10	47.2	1.227	3	
1547	Hydroxylamine chloride; (Hydroxylamine hydrochloride)	5470-11-1	S	159	dec			1.6717	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1534	Hydroxy-2-methylpropanoic acid, 2-; (2-Methyllactic acid)	594-61-6					NA
1535	Hydroxy-4'-hydroxyethoxy-2-methylpropiophenone, 2-	106797-53-9					NA
1536	Hydroxy-4-methyl-2-pentanone, 4-; (Diacetone alcohol)	123-42-2	01/04/99				1
1537	Hydroxyapatite; (Calcium hydroxyapatite)	1306-06-5					NA
1538	Hydroxybenezenesulfonic acid, 4-; (4-Hydroxyphenylsulfonic acid)	98-67-9	04/15/07		04/20/07		NA
1539	Hydroxybenzoic acid, 4-; (p-Salicylic acvid)	99-96-7	07/16/07		07/16/07	RTECS	NA
1540	Hydroxybenzotriazole, 1-; (1-Hydroxybenzotriazole hydrate)	2592-95-2	04/15/07		04/20/07		NA
1541	Hydroxyethyl acrylate, 2-; (Acrylic acid, 2-hydroxyethyl ester)	818-61-1	04/15/07		04/20/07		3
1542	Hydroxyethyl methacrylate, 2-	868-77-9					NA
1543	Hydroxyethyl)-1-piperazineethanesulfonic acid, 4-(2-	7365-45-9					NA
1544	Hydroxyethylenediaminetriacetic acid, N-	150-39-0					NA
1545	Hydroxyethylidene-1,1-diphosphonic acid, 1-; (Hydroxyethylidine bisphosphonic acid, 1-)	2809-21-4					NA
1546	Hydroxylamine	7803-49-8	08/07/98				2
1547	Hydroxylamine chloride; (Hydroxylamine hydrochloride)	5470-11-1	08/07/98				NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1548	Hydroxylamine nitrate	13465-08-2	N.I.S.	96.04	mg/m3	Y	3.93	NH2OH.HNO3
1549	Hydroxylamine sulfate; (Oxammonium sulfate)	10039-54-0	OLS000	164.16	mg/m3	Y	6.71	H6N2O2.H2O4S
1550	Hydroxymethanesulfinic acid, monosodium salt; (Formaldehyde hydrosulfite)	149-44-0	FMW000	119.10	mg/m3	N	4.87	C.H4.O3.S..Na
1551	Hydroxy-N-phenylbenzamide, N-; (Phenylbenzohydroxamic acid, N-)	304-88-1	N.I.S.	213.24	mg/m3	N	8.72	C13.H11.N.O2
1552	Hydroxyphenyl)benzothiazole, 2(2-	3411-95-8	N.I.S.	227.28	mg/m3	N	9.29	C13.H9.N.O.S
1553	Hydroxyphenylacetic acid, alpha-	90-64-2	MAP000	152.16	mg/m3	N	6.22	C8.H8.O3
1554	Hydroxypropyl cellulose	9004-64-2	HNV000	806.93	mg/m3	N	32.98	C36.H70.O19
1555	Hydroxyquinoline sulfate, 8-	134-31-6	QPS000	388.42	mg/m3	N	15.88	C18.H14.N2.O2..H2.O4.S
1556	Hypophosphorous acid-d3; (Hydrophosphorus acid-d3 solution, 50 wt.%	57583-56-9	N.I.S. etc.	69.01	ppm	N	2.82	D3.P.O2
1557	Hypophosphorus acid; (Phosphinic acid)	6303-21-5	PGY250	66.00	mg/m3	N	2.70	H3O2P
1558	Imidazole	288-32-4	IAL000	68.09	mg/m3	N	2.78	C3.H4.N2
1559	Imidazole hydrochloride	1467-16-9	N.I.S. etc.	104.54	mg/m3	Y	4.27	C3.H4.N2..H.Cl
1560	Imidazole, substituted; (1,3,5-Triazine-2,4-diamine, 6-[2-(2-metyhyl-1H-imidazol-1-yl)ethyl]; Curezol 2MEA-PW)	38668-46-1	N.I.S.	219.25	mg/m3	N	8.96	C9.H13.N7
1561	Iminodiacetic acid	142-73-4	IBH000	133.12	mg/m3	N	5.44	C4H7NO4

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1548	Hydroxylamine nitrate	13465-08-2	L					1.156	3	
1549	Hydroxylamine sulfate; (Oxammonium sulfate)	10039-54-0	S	177					3	
1550	Hydroxymethanesulfinic acid, monosodium salt; (Formaldehyde hydrosulfite)	149-44-0	S	63					2	
1551	Hydroxy-N-phenylbenzamide, N-; (Phenylbenzohydroxamic acid, N-)	304-88-1		118-120						
1552	Hydroxyphenyl)benzothiazole, 2(2-	3411-95-8	S	131-133						
1553	Hydroxyphenylacetic acid, alpha-	90-64-2	S	117-119	dec			1.3	3	
1554	Hydroxypropyl cellulose	9004-64-2	S						3	
1555	Hydroxyquinoline sulfate, 8-	134-31-6	S	177.5	267	0.00166	25	1.034 @ 20C	3	
1556	Hypophosphorous acid-d3; (Hydrophosphorus acid-d3 solution, 50 wt.%	57583-56-9						1.35		
1557	Hypophosphorus acid; (Phosphinic acid)	6303-21-5	S	26.5				1.439	3	
1558	Imidazole	288-32-4	S	90-91	257			1.0303 @ 101C	3	
1559	Imidazole hydrochloride	1467-16-9	S	158-161						
1560	Imidazole, substituted; (1,3,5-Triazine-2,4-diamine, 6-[2-(2-metyhyl-1H-imidazol-1-yl)ethyl]; Curezol 2MEA-PW)	38668-46-1	S							
1561	Iminodiacetic acid	142-73-4	S	220-250	247.5 dec				3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1548	Hydroxylamine nitrate	13465-08-2	08/07/98				NA
1549	Hydroxylamine sulfate; (Oxammonium sulfate)	10039-54-0	08/07/98				NA
1550	Hydroxymethanesulfinic acid, monosodium salt; (Formaldehyde hydrosulfite)	149-44-0					NA
1551	Hydroxy-N-phenylbenzamide, N-; (Phenylbenzohydroxamic acid, N-)	304-88-1					NA
1552	Hydroxyphenyl)benzothiazole, 2(2-	3411-95-8			04/20/07	RTECS	NA
1553	Hydroxyphenylacetic acid, alpha-	90-64-2					NA
1554	Hydroxypropyl cellulose	9004-64-2					NA
1555	Hydroxyquinoline sulfate, 8-	134-31-6					NA
1556	Hypophosphorous acid-d3; (Hydrophosphorus acid-d3 solution, 50 wt.%	57583-56-9			04/20/07		NA
1557	Hypophosphorus acid; (Phosphinic acid)	6303-21-5	08/07/98				NA
1558	Imidazole	288-32-4					NA
1559	Imidazole hydrochloride	1467-16-9					NA
1560	Imidazole, substituted; (1,3,5-Triazine-2,4-diamine, 6-[2-(2-metyhyl-1H-imidazol-1-yl)ethyl]; Curezol 2MEA-PW)	38668-46-1	10/18/07		10/18/07	PNOS default	
1561	Iminodiacetic acid	142-73-4					NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1562	Iminodiacetic acid, disodium salt hydrate	17593-73-6	N.I.S.	195.08	mg/m3	N	7.97	C4.H7.N.Na2.O5
1563	Indan	496-11-7	IBR000	118.19	mg/m3	N	4.83	C9H10
1564	Indene	95-13-6	IBX000	116.17	ppm	Y	4.75	C9H8
1565	Indeno(1,2,3-cd)pyrene	193-39-5	IBZ000	276.34	mg/m3	N	11.29	C22H12
1566	Indigo carmine; (FD&C blue No 2)	860-22-0	FAE100	468.38	mg/m3	N	19.14	C16H10N2O8S2.2Na
1567	Indium	7440-74-6	ICF000	114.82	mg/m3	Y	4.69	In
1568	Indium oxide (vapor)	1312-43-2b	N.I.S.	245.64	mg/m3	N	10.04	In2-O
1569	Indium sulfate	13464-82-9	ICJ000	517.82	mg/m3	N	21.16	O12.S3..In2
1570	Indium trichloride	10025-82-8	ICK000	221.17	mg/m3	N	9.04	Cl3In
1571	Indium(III) oxide	1312-43-2a	ICI100	277.64	mg/m3	N	11.35	In2-O3
1572	Indole-3-carboxaldehyde, 1H-; (3-Formylindole)	487-89-8	FNO100	145.17	ppm	N	5.93	C9-H7-N-O
1573	Iodic acid	7782-68-5	IDK000	175.91	mg/m3	Y	7.19	H.I.O3
1574	Iodide, Ammonium, tetraethyl-; (Tetraethylammoniumiodide)	68-05-3	TCC750	257.19	mg/m3	N	10.51	C8.H2.0.N.I
1575	**Iodine**	**7553-56-2**	IDM000	253.80	ppm	Y	10.37	I2

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1562	Iminodiacetic acid, disodium salt hydrate	17593-73-6	S	180						
1563	Indan	496-11-7	L	-51.4	176.5			0.963	1	
1564	Indene	95-13-6	L	-1.8	181.6			0.9968	2	10000
1565	Indeno(1,2,3-cd)pyrene	193-39-5	S	161-163.5					3	
1566	Indigo carmine; (FD&C blue No 2)	860-22-0	S						3	
1567	Indium	7440-74-6	S	156.61	2080			7.31 @ 20C	3	
1568	Indium oxide (vapor)	1312-43-2b	V							
1569	Indium sulfate	13464-82-9	S					3.44	3	
1570	Indium trichloride	10025-82-8	S	586 subl	600			4	3	
1571	Indium(III) oxide	1312-43-2a	S	1913				7.18	1	
1572	Indole-3-carboxaldehyde, 1H-; (3-Formylindole)	487-89-8							2	
1573	Iodic acid	7782-68-5	S	110 dec				4.629	3	
1574	Iodide, Ammonium, tetraethyl-; (Tetraethylammoniumiodide)	68-05-3	S	300 dec				1.559 @ 4C	3	
1575	**Iodine**	**7553-56-2**	S	113.5	184			4.93	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1562	Iminodiacetic acid, disodium salt hydrate	17593-73-6					NA
1563	Indan	496-11-7	01/04/99				1
1564	Indene	95-13-6	09/30/97	07/09/08	07/09/08	GOEV, RTECS.	NA
1565	Indeno(1,2,3-cd)pyrene	193-39-5					NA
1566	Indigo carmine; (FD&C blue No 2)	860-22-0	08/07/98				NA
1567	Indium	7440-74-6					NA
1568	Indium oxide (vapor)	1312-43-2b			05/19/07	GOEV 2007.	
1569	Indium sulfate	13464-82-9					NA
1570	Indium trichloride	10025-82-8	08/07/98				NA
1571	Indium(III) oxide	1312-43-2a			05/19/07	GOEV 2007, RTECS.	
1572	Indole-3-carboxaldehyde, 1H-; (3-Formylindole)	487-89-8					NA
1573	Iodic acid	7782-68-5	08/07/98				NA
1574	Iodide, Ammonium, tetraethyl-; (Tetraethylammoniumiodide)	68-05-3					NA
1575	**Iodine**	**7553-56-2**	08/21/96		08/15/07	GOEV, AIHA.	NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1576	Iodine 125	17144-19-3	N.I.S. etc	250.00	ppm	Y	10.22	I2
1577	Iodobenzene	591-50-4	IEC500	204.01	mg/m3	N	8.34	C6.H5.I
1578	Iodoethane; (Ethyl iodide)	75-03-6	ELP500	155.97	ppm	N	6.37	C2.H5.I
1579	Iodoheptafluoropropane, 1-; (Heptafluoropropyl iodide)	754-34-7	N.I.S.	295.93	ppm	N	12.10	C3.F7.I
1580	Iodopentane, 1-	628-17-1	IET500	198.06	mg/m3	N	8.09	C5.H11.I
1581	Iotalamic acid	2276-90-6	IGD000	613.92	mg/m3	N	25.09	C11.H9.I3.N2.O4
1582	Iridium	7439-88-5	IGJ000	192.20	mg/m3	N	7.86	Ir
1583	Iron	7439-89-6	IGK800	55.85	mg/m3	N	2.28	Fe
1584	Iron carbide	12011-67-5	IGQ750	179.55	mg/m3	N	7.34	Fe3-C
1585	Iron hydroxide oxide	20344-49-4	IGR499	88.86	mg/m3	N	3.63	Fe.O..(O.H)
1586	Iron oxide; (Ferric oxide)	1309-37-1	IHC450	159.70	mg/m3	N	6.53	Fe2O3
1587	**Iron pentacarbonyl**	**13463-40-6**	IHG500	195.90	ppm	Y	8.01	Fe(OC)5
1588	Iron(II) chloride tetrahydrate	13478-10-9	FBJ000	198.83	mg/m3	Y	8.13	Cl2Fe.4H2O
1589	Iron(II) perchlorate hexahydrate	13520-69-9	N.I.S. etc.	353.34	mg/m3	N	14.44	Fe.Cl.O4.6(H2.O)

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1576	Iodine 125	17144-19-3	S	sublimes					3	
1577	Iodobenzene	591-50-4	L	-29	188			1.823	3	
1578	Iodoethane; (Ethyl iodide)	75-03-6	L	-108	72.4	100	18	1.948 @ 15C	3	
1579	Iodoheptafluoropropane, 1-; (Heptafluoropropyl iodide)	754-34-7	L		41			2.04		
1580	Iodopentane, 1-	628-17-1	L	=85.6	157			1.5161 @ 20C	2	
1581	Iotalamic acid	2276-90-6	S	285 dec.					3	
1582	Iridium	7439-88-5	S	2446	4428			21.56	3	
1583	Iron	7439-89-6	S	1535	3000			7.87	3	
1584	Iron carbide	12011-67-5	S							
1585	Iron hydroxide oxide	20344-49-4	S					4.26	3	
1586	Iron oxide; (Ferric oxide)	1309-37-1	S	1565				5.12 - 5.24	3	
1587	**Iron pentacarbonyl**	**13463-40-6**	L	-25	103	40	30.3	1.453 @ 25C	3	37000
1588	Iron(II) chloride tetrahydrate	13478-10-9	S	105 dec				1.93	3	
1589	Iron(II) perchlorate hexahydrate	13520-69-9								

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1576	Iodine 125	17144-19-3			08/15/07	GOEV, AIHA.	NA
1577	Iodobenzene	591-50-4			04/20/07		NA
1578	Iodoethane; (Ethyl iodide)	75-03-6					NA
1579	Iodoheptafluoropropane, 1-; (Heptafluoropropyl iodide)	754-34-7			04/20/07		NA
1580	Iodopentane, 1-	628-17-1			04/20/07		NA
1581	Iotalamic acid	2276-90-6					NA
1582	Iridium	7439-88-5			04/20/07		NA
1583	Iron	7439-89-6	09/30/97				NA
1584	Iron carbide	12011-67-5					NA
1585	Iron hydroxide oxide	20344-49-4	08/07/98				NA
1586	Iron oxide; (Ferric oxide)	1309-37-1	08/21/96				NA
1587	**Iron pentacarbonyl**	**13463-40-6**	03/01/00	07/19/08	08/15/07	EPA	1
1588	Iron(II) chloride tetrahydrate	13478-10-9					NA
1589	Iron(II) perchlorate hexahydrate	13520-69-9					NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1590	Iron(II,III) oxide; (Ferrosoferric oxide; Iron(III) oxide)	1317-61-9	N.I.S.	231.53	mg/m3	N	9.46	Fe3.O4
1591	Iron(III) perchlorate	13537-24-1	N.I.S.	354.20	mg/m3	N	14.48	Cl3.Fe.O12
1592	Iron(III) sulfate heptahydrate	35139-28-7	FBO000	278.05	mg/m3	N	11.36	Fe.S.O4..7H2.O
1593	Isoamyl acetate; (Isopentyl acetate)	123-92-2	IHO850	130.21	ppm	Y	5.32	C7H14O2
1594	Isoamyl alcohol (primary); (3-Methyl-1-butanol)	123-51-3	IHP000	88.17	ppm	Y	3.60	(CH3)2CHC.4H4.OH
1595	Isoamyl alcohol (secondary); (3-Pentanol)	584-02-1	IHP010	88.17	ppm	Y	3.60	(CH3)2CHC.4H4.OH
1596	Isoamyl nitrite; (Isopentyl nitrite)	110-46-3	IMB000	117.17	ppm	N	4.79	C5H11NO2
1597	Isobenzan	297-78-9	OAN000	411.73	mg/m3	N	16.83	C9H4Cl8O
1598	Isobutanol-2-amine	124-68-5	IIA000	89.16	mg/m3	N	3.64	C4H11NO
1599	Isobutyl acetate	110-19-0	IIJ000	116.18	ppm	Y	4.75	C6H12O2
1600	Isobutyl alcohol	78-83-1	IIL000	74.14	ppm	Y	3.03	(CH3)2CHCH2. OH
1601	Isobutyl chloride; (1-Chloro-2-methylpropane)	513-36-0	CIU500	92.57	ppm	N	3.78	C4.H9.Cl
1602	**Isobutyl Chloroformate; (Chloroformic acid butyl ester)**	**543-27-1**	N.I.S.	136.58	ppm	N	5.58	C5.H9.Cl.O2
1603	Isobutyl isobutyrate	97-85-8	IIW000	144.24	mg/m3	N	5.90	C8H16O2

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1590	Iron(II,III) oxide; (Ferrosoferric oxide; Iron(III) oxide)	1317-61-9	S	1597				5.17		
1591	Iron(III) perchlorate	13537-24-1	S							
1592	Iron(III) sulfate heptahydrate	35139-28-7	Shygr.	64				2.99 - 3.08	3	
1593	Isoamyl acetate; (Isopentyl acetate)	123-92-2	L	-78.5	142.5	5.6	25	0.876 @ 15C	3	10000
1594	Isoamyl alcohol (primary); (3-Methyl-1-butanol)	123-51-3	L	-117.2	132	28	20	0.813	3	12000
1595	Isoamyl alcohol (secondary); (3-Pentanol)	584-02-1	L		115.6			0.815	3	12000
1596	Isoamyl nitrite; (Isopentyl nitrite)	110-46-3	L	unstabl	97-99			0.872	3	16300
1597	Isobenzan	297-78-9	S	120-122		0.00001	25	1.87	3	
1598	Isobutanol-2-amine	124-68-5	S	30-31	165			0.934	3	
1599	Isobutyl acetate	110-19-0	L	-98.9	118	10	12.8	0.8685	3	13000
1600	Isobutyl alcohol	78-83-1	L	-107.8	108.3	9	20	0.8	3	12000
1601	Isobutyl chloride; (1-Chloro-2-methylpropane)	513-36-0	L	-130.3	68.8			0.881 @ 20C	3	20000
1602	**Isobutyl Chloroformate; (Chloroformic acid butyl ester)**	**543-27-1**	L		128.7			1.053		
1603	Isobutyl isobutyrate	97-85-8	L	-81	147.5	10	39.9	0.85-0.86	2	9600

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1590	Iron(II,III) oxide; (Ferrosoferric oxide; Iron(III) oxide)	1317-61-9					NA
1591	Iron(III) perchlorate	13537-24-1					NA
1592	Iron(III) sulfate heptahydrate	35139-28-7					NA
1593	Isoamyl acetate; (Isopentyl acetate)	123-92-2					1
1594	Isoamyl alcohol (primary); (3-Methyl-1-butanol)	123-51-3	11/15/96	02/22/08		GOEV, NIOSH, RTECS.	1
1595	Isoamyl alcohol (secondary); (3-Pentanol)	584-02-1	11/15/96	02/22/08		GOEV, NIOSH, RTECS.	1
1596	Isoamyl nitrite; (Isopentyl nitrite)	110-46-3	08/21/96				2
1597	Isobenzan	297-78-9					NA
1598	Isobutanol-2-amine	124-68-5					2
1599	Isobutyl acetate	110-19-0	09/30/97				1
1600	Isobutyl alcohol	78-83-1	08/21/96				2
1601	Isobutyl chloride; (1-Chloro-2-methylpropane)	513-36-0					1
1602	**Isobutyl Chloroformate; (Chloroformic acid butyl ester)**	**543-27-1**	07/02/08	07/18/08	07/02/08	GOEV, EPA.	
1603	Isobutyl isobutyrate	97-85-8	01/04/99				0

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1604	Isobutylamine	78-81-9	IIM000	73.16	ppm	Y	2.99	C4H11N
1605	Isobutyraldehyde	78-84-2	IJS000	72.12	ppm	Y	2.95	C4H8O
1606	Isobutyric acid	79-31-2	IJU000	88.12	ppm	Y	3.60	C4H8O2
1607	Isobutyric anhydride; (2-Methylpropionic anhydride)	97-72-3	IJW000	158.22	ppm	Y	6.47	C8.H14.O3
1608	**Isobutyronitrile**	**78-82-0**	IJX000	69.12	ppm	N	2.83	(CH3)2.CH.CN
1609	Isocyanate-bearing waste (as CNs N.O.S.)	z-0024	IKG349		mg/m3	N		[Unspecified]
1610	**Isocyanatoethyl methacrylate, 2-**	**30674-80-7**	IKG700	155.17	ppm	N	6.34	C7H9NO3
1611	Isocyanic acid	75-13-8	N.I.S., etc.	43.02	ppm	Y	1.76	CHNO
1612	Isocyanic acid, 3,4-dichlorophenyl ester; (3,4-Dichlorophenyl isocyanate)	102-36-3	IKH099	188.01	mg/m3	N	7.68	C7H3Cl2NO
1613	Isodrin	465-73-6	IKO000	364.90	mg/m3	N	14.91	C12H8Cl6
1614	Isonate 181 MDI prepolymer	z-0113	N.I.S. etc.		mg/m3	N		
1615	Isooctane; (2,2,4-Trimethylpentane)	540-84-1	TLY500	114.26	ppm	N	4.67	C18.H18
1616	Isopentane; (Ethyldimethylmethane; 2-Methylbutane)	78-78-4	EIK000	72.17	ppm	Y	2.95	C5H12
1617	Isophorone	78-59-1	IMF400	138.23	ppm	Y	5.65	C9H14O

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1604	Isobutylamine	78-81-9	L	-85.5	68.6	138	25	0.731 @ 20C	3	34000
1605	Isobutyraldehyde	78-84-2	L	-65	64	173	25	0.7938 @ 20C	3	16000
1606	Isobutyric acid	79-31-2	L	-47	118-119	1	14.7	0.949 @ 20C	3	20000
1607	Isobutyric anhydride; (2-Methylpropionic anhydride)	97-72-3	L	-53.5	181.5 @ 734mm			0.9535 @ 20C	3	
1608	**Isobutyronitrile**	**78-82-0**	L	-75	107	~28	20	0.773	3	
1609	Isocyanate-bearing waste (as CNs N.O.S.)	z-0024	L/S						D	
1610	**Isocyanatoethyl methacrylate, 2-**	**30674-80-7**	L		211	0.2	25		3	
1611	Isocyanic acid	75-13-8	G unstabl			996	25		3+	
1612	Isocyanic acid, 3,4-dichlorophenyl ester; (3,4-Dichlorophenyl isocyanate)	102-36-3	S	42-43	240	0.02	25		3	
1613	Isodrin	465-73-6	S	240-242	344	0.00001	25		3	
1614	Isonate 181 MDI prepolymer	z-0113	L		200					
1615	Isooctane; (2,2,4-Trimethylpentane)	540-84-1	L	-107.5	99.2	40.6	21	0.692 @ 20C	3	11000
1616	Isopentane; (Ethyldimethylmethane; 2-Methylbutane)	78-78-4	S	-160.5	30.2	595	21.1	0.62	3	13000
1617	Isophorone	78-59-1	L		215.2	1	38	0.9229	3	8000

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1604	Isobutylamine	78-81-9					3
1605	Isobutyraldehyde	78-84-2	04/15/07		04/20/07		2
1606	Isobutyric acid	79-31-2					3
1607	Isobutyric anhydride; (2-Methylpropionic anhydride)	97-72-3	04/15/07		04/20/07		3
1608	**Isobutyronitrile**	**78-82-0**	10/31/92	02/04/08	08/15/07	GOEV, AIHA, EPA.	3
1609	Isocyanate-bearing waste (as CNs N.O.S.)	z-0024	11/15/96				
1610	**Isocyanatoethyl methacrylate, 2-**	**30674-80-7**	08/21/96		08/15/07	AIHA.	NA
1611	Isocyanic acid	75-13-8	04/15/07		04/20/07		NA
1612	Isocyanic acid, 3,4-dichlorophenyl ester; (3,4-Dichlorophenyl isocyanate)	102-36-3					NA
1613	Isodrin	465-73-6					NA
1614	Isonate 181 MDI prepolymer	z-0113					
1615	Isooctane; (2,2,4-Trimethylpentane)	540-84-1	01/04/99		05/18/07	GOEV 2007.	1
1616	Isopentane; (Ethyldimethylmethane; 2-Methylbutane)	78-78-4					1
1617	Isophorone	78-59-1	09/30/97				2

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1618	Isophorone diisocyanate	4098-71-9	IMG000	222.32	ppm	N	9.09	C12H18N2O2
1619	Isophthalic acid	121-91-5	IMJ000	166.14	mg/m3	N	6.79	C8.H6.O4
1620	**Isoprene**	**78-79-5**	IMS000	68.13	ppm	N	2.78	H2C=C(CH3)CH=CH2
1621	Isopropyl acetate	108-21-4	INE100	102.15	ppm	Y	4.18	C5H10O2
1622	Isopropyl alcohol	67-63-0	INJ000	60.11	ppm	Y	2.46	(CH3)2.CH.OH
1623	Isopropyl chloride; (2-Chloropropane)	75-29-6	CKQ000	78.54	ppm	N	3.21	CH3CHClCH3
1624	**Isopropyl chloroformate; (Isopropyl chlorocarbonate)**	**108-23-6**	IOL000	122.56	ppm	Y	5.01	(CH3)2CHOCO-Cl
1625	Isopropyl ether; (Diisopropyl ether)	108-20-3	IOZ750	102.20	ppm	Y	4.18	(CH3)2.CHOCH.(CH3)2
1626	**Isopropyl methanefluoro-phosphonate; (Sarin; GB)**	**107-44-8**	IPX000	140.11	ppm	Y	5.73	C4H10FO2P
1627	Isopropyl nitrate	1712-64-7	IQP000	105.11	ppm	Y	4.30	C3.H7.N.O3
1628	Isopropyl titanate(IV); (Titanium(IV) isopropoxide)	546-68-9	IRN200	72.07	mg/m3	Y	2.95	C3.H8.O..1/4 Ti
1629	Isopropylamine; (2-Propanamine)	75-31-0	INK000	59.13	ppm	Y	2.42	(CH3)2CHNH2
1630	Isopropylmagnesium chloride; (Chloro(1-methylethyl)magnesium)	1068-55-9	N.I.S.	102.85	mg/m3	N	4.20	C3.H7.Cl..Mg
1631	Isopropylmethylpyrazolyl dimethylcarbamate; (Isolan)	119-38-0	DSK200	211.30	mg/m3	N	8.64	C10H17N3O2

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1618	Isophorone diisocyanate	4098-71-9	S	-60	360	0.00001	25	1.062 @ 20C	3	
1619	Isophthalic acid	121-91-5	S	347.5	subl.	0.068	100	1.507 @ 20C	1	
1620	**Isoprene**	**78-79-5**	L	-146.7	34	400	550	25	3	10000
1621	Isopropyl acetate	108-21-4	L	-73	88.4	40	17	0.874	3	17000
1622	Isopropyl alcohol	67-63-0	L	-88.3	82.8	33	20	0.7854	3	20000
1623	Isopropyl chloride; (2-Chloropropane)	75-29-6	L	-117	34.8	515.3	25	0.868 @ 15C	3	28000
1624	**Isopropyl chloroformate; (Isopropyl chlorocarbonate)**	**108-23-6**	L	-80	105	72	21	1.078	3	
1625	Isopropyl ether; (Diisopropyl ether)	108-20-3	L	-60	68.5	150	25	0.719	3	10000
1626	**Isopropyl methanefluoro-phosphonate; (Sarin; GB)**	**107-44-8**	L	-58	147	1.57	20	1.1	3	
1627	Isopropyl nitrate	1712-64-7	L		102			1.036	3	
1628	Isopropyl titanate(IV); (Titanium(IV) isopropoxide)	546-68-9	L	~20	220			0.9711 @ 20C	1	
1629	Isopropylamine; (2-Propanamine)	75-31-0	L	-101.2	33-34	579.6	25	0.694 @ 15C	3	20000
1630	Isopropylmagnesium chloride; (Chloro(1-methylethyl)magnesium)	1068-55-9	L					0.834		
1631	Isopropylmethylpyrazolyl dimethylcarbamate; (Isolan)	119-38-0	L		295	0.001	25	1.07 @ 20C	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1618	Isophorone diisocyanate	4098-71-9					NA
1619	Isophthalic acid	121-91-5	04/15/07		04/20/07		NA
1620	**Isoprene**	**78-79-5**				08/15/07	1
1621	Isopropyl acetate	108-21-4	01/04/99	02/26/08	02/26/08	GOEV, RTECS.	2
1622	Isopropyl alcohol	67-63-0	10/31/92	02/26/08	02/26/08	GOEV, NIOSH, RTECS.	1
1623	Isopropyl chloride; (2-Chloropropane)	75-29-6	04/15/07		04/20/07		2
1624	**Isopropyl chloroformate; (Isopropyl chlorocarbonate)**	**108-23-6**	03/01/00		06/27/08	EPA.	NA
1625	Isopropyl ether; (Diisopropyl ether)	108-20-3					2
1626	**Isopropyl methanefluoro-phosphonate; (Sarin; GB)**	**107-44-8**	07/09/97	2/4	08/15/07	EPA	NA
1627	Isopropyl nitrate	1712-64-7			06/04/07		NA
1628	Isopropyl titanate(IV); (Titanium(IV) isopropoxide)	546-68-9					NA
1629	Isopropylamine; (2-Propanamine)	75-31-0					3
1630	Isopropylmagnesium chloride; (Chloro(1-methylethyl)magnesium)	1068-55-9					NA
1631	Isopropylmethylpyrazolyl dimethylcarbamate; (Isolan)	119-38-0					NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1632	Isopropyltoluene, 4-; (p-Cymene)	99-87-6	CQI000	134.24	mg/m3	Y	5.49	C10.H14
1633	Jeffamine M-600	77110-54-4	N.I.S. etc	600.00	mg/m3	N	24.52	
1634	**Jet fuels (JP-5 and JP-8)**	**70892-10-3**	JDJ000		mg/m3	Y		[Unspecified]
1635	Kaolin; (Aluminum silicate hydroxide)	1332-58-7	KBB600		mg/m3	N		
1636	Kepone; (Chlordecone)	143-50-0	KEA000	490.60	mg/m3	N	20.05	C10Cl10O
1637	**Kerosene**	**8008-20-6**	KEK000	170.00	mg/m3	Y	6.95	C10 to C16 hydrocarbons
1638	**Ketene; (Carbomethene, Ethenone)**	**463-51-4**	KEU000	42.04	ppm	Y	1.72	C2H2O
1639	Krypton	7439-90-9	N.I.S.	83.80	ppm	N	3.43	Kr
1640	Lactic acid	50-21-5	LAG000	90.09	mg/m3	Y	3.68	C3H6O3
1641	Lactic acid, sodium salt, DL-; (Propanoic acid, 2-hydroxy-, monosodium salt)	312-85-6	N.I.S.	113.07	mg/m3	N	4.62	C3.H6.O3..Na
1642	Lactonitrile	78-97-7	LAQ000	71.09	mg/m3	N	2.91	C3H5NO
1643	Lactose, beta-D; (beta-D-Glucopyranose, 4-O-beta-D-galactopyranosyl-)	5965-66-2	N.I.S.	342.30	mg/m3	N	13.99	C12.H22.O11
1644	Lanthanum	7439-91-0	LAV000	138.91	mg/m3	N	5.68	La
1645	Lanthanum alizarin	z-0026	(LAV000)		mg/m3	N		[Unknown]

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1632	Isopropyltoluene, 4-; (p-Cymene)	99-87-6	L	-68.9	177.1	1.5	25	0.853	3	7000
1633	Jeffamine M-600	77110-54-4	S	-40						
1634	**Jet fuels (JP-5 and JP-8)**	**70892-10-3**	L					0.8	3	
1635	Kaolin; (Aluminum silicate hydroxide)	1332-58-7	S	1760				1.8 - 2.6	1	
1636	Kepone; (Chlordecone)	143-50-0	S	350 dec					3	
1637	**Kerosene**	**8008-20-6**	L	-46	175-->	5	20	0.81 @ 15C	3	6000
1638	**Ketene; (Carbomethene, Ethenone)**	**463-51-4**	G	-150	-56	>760		1.45 vapor	3	
1639	Krypton	7439-90-9	G	-157.1	-152.9			2.89		
1640	Lactic acid	50-21-5	L	16.8	122 @ 15mm			1.249	2	
1641	Lactic acid, sodium salt, DL-; (Propanoic acid, 2-hydroxy-, monosodium salt)	312-85-6	S							
1642	Lactonitrile	78-97-7	L	-40	221	0.119	25	0.9834	3	
1643	Lactose, beta-D; (beta-D-Glucopyranose, 4-O-beta-D-galactopyranosyl-)	5965-66-2	S	254				1.59 @ 20C		
1644	Lanthanum	7439-91-0	S	920	3464			6.166	3	
1645	Lanthanum alizarin	z-0026							1	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1632	Isopropyltoluene, 4-; (p-Cymene)	99-87-6			04/20/07		1
1633	Jeffamine M-600	77110-54-4					NA
1634	**Jet fuels (JP-5 and JP-8)**	**70892-10-3**	07/09/97	07/19/08	08/15/07	GOEV, EPA, RTECS.	NA
1635	Kaolin; (Aluminum silicate hydroxide)	1332-58-7					NA
1636	Kepone; (Chlordecone)	143-50-0	08/21/96				NA
1637	**Kerosene**	**8008-20-6**	08/21/96	07/19/08	06/13/07	GOEV, EPA.	1
1638	**Ketene; (Carbomethene, Ethenone)**	**463-51-4**	09/30/97	07/18/08	12/28/07	GOEV, EPA.	NA
1639	Krypton	7439-90-9					NA
1640	Lactic acid	50-21-5	08/07/98				NA
1641	Lactic acid, sodium salt, DL-; (Propanoic acid, 2-hydroxy-, monosodium salt)	312-85-6			04/20/07		NA
1642	Lactonitrile	78-97-7					4
1643	Lactose, beta-D; (beta-D-Glucopyranose, 4-O-beta-D-galactopyranosyl-)	5965-66-2					NA
1644	Lanthanum	7439-91-0	01/04/99				NA
1645	Lanthanum alizarin	z-0026	08/07/98				

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1646	Lanthanum boride	12008-21-8	N.I.S.	203.77	mg/m3	N	8.33	La.B6
1647	Lanthanum carbonate	6487-39-4	N.I.S. etc.	601.96	mg/m3	N	24.60	La2(CO3)3.8H2O
1648	Lanthanum chloride	10099-58-8	LAX000	245.26	mg/m3	N	10.02	La.Cl3
1649	Lanthanum fluoride	13709-38-1	N.I.S.	195.90	mg/m3	Y	8.01	LaF3
1650	Lanthanum hydroxide	14507-19-8	N.I.S.	189.93	mg/m3	N	7.76	La(OH)3
1651	Lanthanum nitrate	10099-59-9	LBA000	324.94	mg/m3	N	13.28	N3O9.La
1652	Lanthanum oxide	1312-81-8	LBA100	325.82	mg/m3	Y	13.32	La2O3
1653	Lanthanum phosphate	14913-14-5	N.I.S.	233.88	mg/m3	N	9.56	LaPO4
1654	Lanthanum(III) nitrate hexahydrate	10277-43-7	N.I.S.	433.06	mg/m3	N	17.70	La..3(NO3).6 H2O
1655	Laromin C 260; (bis(4-Amino-3-methylcyclohexyl) methane;	6864-37-5	BGE800	238.47	mg/m3	N	9.75	C15.H30.N2
1656	Lauryl sulfate; (Dodecyl sulfate)	151-41-7	MRH250	266.40	mg/m3	N	10.89	C12.H26.O4.S
1657	Lead	7439-92-1	LCF000	207.19	mg/m3	N	8.47	Pb
1658	Lead acetate(II), trihydrate; (Bis(acetato)trihydroxytrilead)	6080-56-4	LCJ000	379.35	mg/m3	N	15.50	C4H6O4.Pb. 3H2O
1659	Lead acetate, basic; (Lead subacetate)	1335-32-6	LCH000	807.71	mg/m3	N	33.01	C4H10O8Pb3

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1646	Lanthanum boride	12008-21-8	S	2715				4.76		
1647	Lanthanum carbonate	6487-39-4	S					2.6		
1648	Lanthanum chloride	10099-58-8	S deliq	860	1000			3.84	3	
1649	Lanthanum fluoride	13709-38-1	S							
1650	Lanthanum hydroxide	14507-19-8	S	dec						
1651	Lanthanum nitrate	10099-59-9	Sdeliq	~40	~126				3	
1652	Lanthanum oxide	1312-81-8	S	2315	4200			6.51	1	
1653	Lanthanum phosphate	14913-14-5	S							
1654	Lanthanum(III) nitrate hexahydrate	10277-43-7	S	~40	126 dec					
1655	Laromin C 260; (bis(4-Amino-3-methylcyclohexyl) methane;	6864-37-5	L		93-100			0.94	2	
1656	Lauryl sulfate; (Dodecyl sulfate)	151-41-7	S						2	
1657	Lead	7439-92-1	S	327.2	1740	~0	20	11.34	3	
1658	Lead acetate(II), trihydrate; (Bis(acetato)trihydroxytrilead)	6080-56-4	S						3	
1659	Lead acetate, basic; (Lead subacetate)	1335-32-6	S	75	200 dec				2	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1646	Lanthanum boride	12008-21-8					NA
1647	Lanthanum carbonate	6487-39-4	08/07/98				NA
1648	Lanthanum chloride	10099-58-8					NA
1649	Lanthanum fluoride	13709-38-1	08/07/98				NA
1650	Lanthanum hydroxide	14507-19-8					NA
1651	Lanthanum nitrate	10099-59-9	09/30/97				NA
1652	Lanthanum oxide	1312-81-8	08/07/98				NA
1653	Lanthanum phosphate	14913-14-5					NA
1654	Lanthanum(III) nitrate hexahydrate	10277-43-7					NA
1655	Laromin C 260; (bis(4-Amino-3-methylcyclohexyl) methane;	6864-37-5	09/17/07		09/17/07	RTECS.	
1656	Lauryl sulfate; (Dodecyl sulfate)	151-41-7			04/20/07		NA
1657	Lead	7439-92-1	08/21/96				NA
1658	Lead acetate(II), trihydrate; (Bis(acetato)trihydroxytrilead)	6080-56-4	08/21/96				NA
1659	Lead acetate, basic; (Lead subacetate)	1335-32-6	08/21/96				NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1660	Lead acetate; (Lead diacetate)	301-04-2	LCV000	325.29	mg/m3	N	13.30	C4H6O4·Pb
1661	Lead acid arsenate; (Dibasic lead arsenate)	7784-40-9	LCK000	347.12	mg/m3	N	14.19	AsHO4.Pb
1662	Lead arsenate	3687-31-8	LCK100	899.41	mg/m3	N	36.76	As2O8.3Pb
1663	Lead bromide	10031-22-8	LCT000	367.01	mg/m3	N	15.00	PbBr2
1664	Lead carbonate	598-63-0	LCP000	267.21	mg/m3	N	10.92	Pb.CO3
1665	Lead chloride	7758-95-4	LCQ000	278.09	mg/m3	N	11.37	PbCl2
1666	Lead chromate	7758-97-6	LCR000	323.19	mg/m3	N	13.21	Cr.O4.Pb
1667	Lead dioxide	1309-60-0	LCX000	239.19	mg/m3	Y	9.78	PbO2
1668	Lead fluoborate	13814-96-5	LDE000	380.81	mg/m3	N	15.56	Pb.B2F8
1669	Lead fluoride	7783-46-2	LDF000	245.20	mg/m3	N	10.02	PbF2
1670	Lead hydroxide	19783-14-3	LCT000	241.21	mg/m3	N	9.86	Pb.(OH)2
1671	Lead iodide	10101-63-0	LCT000	461.01	mg/m3	N	18.84	PbI2
1672	Lead nitrate	10099-74-8	LDO000	331.21	mg/m3	Y	13.54	N2O6.Pb
1673	Lead nitrite	13826-65-8	LCT000	299.20	mg/m3	N	12.23	Pb(NO2)2

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1660	Lead acetate; (Lead diacetate)	301-04-2	Pwdr	75	>200 decomp			2.55	3	
1661	Lead acid arsenate; (Dibasic lead arsenate)	7784-40-9	S	720 dec				5.8	3	
1662	Lead arsenate	3687-31-8	S						3	
1663	Lead bromide	10031-22-8	S	373	916			6.66		
1664	Lead carbonate	598-63-0	S	315	400 dec			6.61	2	
1665	Lead chloride	7758-95-4	S	501	950	1	547	5.85	2	
1666	Lead chromate	7758-97-6	S	844	dec			6.3	3	
1667	Lead dioxide	1309-60-0	S	290 dec				9.375	3	
1668	Lead fluoborate	13814-96-5	L					1.75 @ 20C	3	
1669	Lead fluoride	7783-46-2	S	855	1290	10	904	7.75 cubic	3	
1670	Lead hydroxide	19783-14-3	S							
1671	Lead iodide	10101-63-0	S	402	954			6.16		
1672	Lead nitrate	10099-74-8	S	470 dec				4.53	3	
1673	Lead nitrite	13826-65-8	S							

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1660	Lead acetate; (Lead diacetate)	301-04-2	01/04/99				NA
1661	Lead acid arsenate; (Dibasic lead arsenate)	7784-40-9	09/30/97				NA
1662	Lead arsenate	3687-31-8	09/30/97				NA
1663	Lead bromide	10031-22-8	08/07/98				NA
1664	Lead carbonate	598-63-0					NA
1665	Lead chloride	7758-95-4	08/07/98				NA
1666	Lead chromate	7758-97-6	09/30/97				NA
1667	Lead dioxide	1309-60-0	09/30/97				NA
1668	Lead fluoborate	13814-96-5					NA
1669	Lead fluoride	7783-46-2	08/07/98				NA
1670	Lead hydroxide	19783-14-3					NA
1671	Lead iodide	10101-63-0	08/07/98				NA
1672	Lead nitrate	10099-74-8	07/09/97				NA
1673	Lead nitrite	13826-65-8					NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1674	Lead oxalate	814-93-7	LCT000	295.22	mg/m3	N	12.07	Pb.(COOH)2
1675	Lead oxide; (Lead monoxide)	1317-36-8	LDN000	223.19	mg/m3	Y	9.12	PbO
1676	Lead phosphate	7446-27-7	LDU000	811.51	mg/m3	N	33.17	3Pb.P2O8
1677	Lead sulfate; (Sulfuric acid, lead(2+) salt (1:1))	7446-14-2	LDY000	303.25	mg/m3	Y	12.39	O4S·Pb
1678	Lead sulfide	1314-87-0	LDZ000	239.25	mg/m3	N	9.78	Pb.S
1679	Lead tetroxide	1314-41-6	LDS000	685.57	mg/m3	N	28.02	Pb3O4
1680	Lead(II) arsenite	10031-13-7	LCL000	421.03	mg/m3	N	17.21	As2O4.Pb
1681	Lead(II) perchlorate hydrate	13453-62-8	N.I.S. etc.	460.15	mg/m3	N	18.81	Cl2.H6.O11..Pb
1682	Leco set 7007 powder	z-0027	N.I.S. etc.		mg/m3	N		[Unknown]
1683	Leptophos	21609-90-5	LEN000	412.07	mg/m3	N	16.84	C13H10BrClO2. PS
1684	**Lewisite 2; (Bis(2-chlorovinyl)chloroarsine)**	**40334-69-8**	BIQ250	233.35	mg/m3	N	9.54	C4.H4.As.Cl3
1685	**Lewisite 3; (Tris(2-chlorovinyl)arsine)**	**40334-70-1**	N.I.S. etc.	259.39	mg/m3	N	10.60	C6.H6.As.Cl3
1686	Lignosulfonate (aqueous)	8062-15-5	N.I.S.		mg/m3	N		[Unknown]
1687	Limonene, d-	5989-27-5	LFU000	136.26	ppm	N	5.57	C10H16

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1674	Lead oxalate	814-93-7	S							
1675	Lead oxide; (Lead monoxide)	1317-36-8	S	888		1	943	9.53	2	
1676	Lead phosphate	7446-27-7	S	1014				6.9-7.3	3	
1677	Lead sulfate; (Sulfuric acid, lead(2+) salt (1:1))	7446-14-2	S	1170 (dec @ 1000)				6.2	3	
1678	Lead sulfide	1314-87-0	S	1114	1281	1	852	7.5	2	
1679	Lead tetroxide	1314-41-6	S	830	1472	1	943	8.32->	3	
1680	Lead(II) arsenite	10031-13-7	S					5.85	3	
1681	Lead(II) perchlorate hydrate	13453-62-8	S	100				2.6		
1682	Leco set 7007 powder	z-0027								
1683	Leptophos	21609-90-5	S	70.2-70.4	380	0.000002	25	1.53 @ 25C	3	
1684	**Lewisite 2; (Bis(2-chlorovinyl)chloroarsine)**	**40334-69-8**	L						3	
1685	**Lewisite 3; (Tris(2-chlorovinyl)arsine)**	**40334-70-1**	L							
1686	Lignosulfonate (aqueous)	8062-15-5	L	~200 dec				~ 1.5		
1687	Limonene, d-	5989-27-5	L	-74.35	175.5-176	20	68.2	0.8402	3	7000

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1674	Lead oxalate	814-93-7					NA
1675	Lead oxide; (Lead monoxide)	1317-36-8	08/21/96				NA
1676	Lead phosphate	7446-27-7					NA
1677	Lead sulfate; (Sulfuric acid, lead(2+) salt (1:1))	7446-14-2	01/04/99		05/17/07	GOEV 2007	NA
1678	Lead sulfide	1314-87-0					NA
1679	Lead tetroxide	1314-41-6	09/30/97				NA
1680	Lead(II) arsenite	10031-13-7					NA
1681	Lead(II) perchlorate hydrate	13453-62-8					NA
1682	Leco set 7007 powder	z-0027	08/07/98				
1683	Leptophos	21609-90-5					NA
1684	**Lewisite 2; (Bis(2-chlorovinyl)chloroarsine)**	**40334-69-8**		07/19/08	08/10/07	EPA	NA
1685	**Lewisite 3; (Tris(2-chlorovinyl)arsine)**	**40334-70-1**		07/19/08	08/10/07	EPA	NA
1686	Lignosulfonate (aqueous)	8062-15-5	09/30/97				NA
1687	Limonene, d-	5989-27-5	01/04/99				NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1688	Lindane; (gamma-Benzenehexachloride)	58-89-9	BBQ500	290.82	mg/m3	N	11.89	C6H6Cl6
1689	Linseed oil	8001-26-1	LGK000		mg/m3	Y		[Unknown]
1690	Liquified petroleum gas; (L.P.G.)	68476-85-7	LGM000	42.58	ppm	N	1.74	[Unspecified]
1691	Lithium	7439-93-2	LGO000	6.94	mg/m3	N	0.28	Li
1692	Lithium acetate dihydrate	6108-17-4	N.I.S. etc.	102.02	mg/m3	N	4.17	Li..C2.H3.O2..2 H2O
1693	Lithium aluminate	12003-67-7	N.I.S.	65.92	mg/m3	N	2.69	Al.Li.O2
1694	Lithium aluminum oxide; (Lithium aluminate)	11089-89-7	N.I.S.	65.92	mg/m3	N	2.69	LiAlO2
1695	Lithium aluminum silicate; (Petalite)	1302-66-5	N.I.S.	306.28	mg/m3	N	12.52	Al-Li-O6-Si-O4
1696	Lithium azide	19597-69-4	LGV000	48.96	mg/m3	Y	2.00	LiN3
1697	Lithium borohydride; (Lithium tetrahydroborate)	16949-15-8	LHT000	21.79	mg/m3	N	0.89	B.H4..Li
1698	Lithium bromide	7550-35-8	LGY000	86.85	mg/m3	Y	3.55	LiBr
1699	Lithium carbonate	554-13-2	LGZ000	73.89	mg/m3	N	3.02	CO3.2Li
1700	Lithium chloride	7447-41-8	LHB000	42.39	mg/m3	Y	1.73	Li.Cl
1701	Lithium chromate; (Lithium chromate dihydrate)	14307-35-8	LHD000	165.92	mg/m3	N	6.78	Li2..Cr.O4.. 2H.2O

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1688	Lindane; (gamma-Benzenehexachloride)	58-89-9	S			0.5			3	
1689	Linseed oil	8001-26-1	L	-19	343			0.93	2	
1690	Liquified petroleum gas; (L.P.G.)	68476-85-7	G						3	19000
1691	Lithium	7439-93-2	S	178	1317	1	723	0.534	3	
1692	Lithium acetate dihydrate	6108-17-4	S	58				1.3		
1693	Lithium aluminate	12003-67-7	S							
1694	Lithium aluminum oxide; (Lithium aluminate)	11089-89-7	S	1900-2000				2.5525	D	
1695	Lithium aluminum silicate; (Petalite)	1302-66-5	S							
1696	Lithium azide	19597-69-4	S	115-298					D	
1697	Lithium borohydride; (Lithium tetrahydroborate)	16949-15-8	S	268	380			0.66	3	
1698	Lithium bromide	7550-35-8	Sdeliq.	547	1265	1	748	3.46	2	
1699	Lithium carbonate	554-13-2	S	720	1200 dec			2.11	3	
1700	Lithium chloride	7447-41-8	S	610	1350	1	547	2.07	3	
1701	Lithium chromate; (Lithium chromate dihydrate)	14307-35-8	S deliq.	75 dec				2.15	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1688	Lindane; (gamma-Benzenehexachloride)	58-89-9	08/21/96				NA
1689	Linseed oil	8001-26-1	09/30/97				NA
1690	Liquified petroleum gas; (L.P.G.)	68476-85-7	01/04/99				NA
1691	Lithium	7439-93-2	08/21/96				3
1692	Lithium acetate dihydrate	6108-17-4					NA
1693	Lithium aluminate	12003-67-7					NA
1694	Lithium aluminum oxide; (Lithium aluminate)	11089-89-7	08/07/98				NA
1695	Lithium aluminum silicate; (Petalite)	1302-66-5	08/07/98				NA
1696	Lithium azide	19597-69-4	08/07/98				NA
1697	Lithium borohydride; (Lithium tetrahydroborate)	16949-15-8			04/20/07		NA
1698	Lithium bromide	7550-35-8	10/31/92				NA
1699	Lithium carbonate	554-13-2	08/07/98				NA
1700	Lithium chloride	7447-41-8					NA
1701	Lithium chromate; (Lithium chromate dihydrate)	14307-35-8	10/31/92				NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1702	Lithium deuteride	13587-16-1	N.I.S.	8.96	mg/m3	Y	0.37	LiD
1703	Lithium diisopropylamide; (LDA)	4111-54-0	N.I.S.	107.12	mg.m3	N	4.38	C6.H14.Li.N
1704	Lithium fluoride	7789-24-4	LHF000	25.94	mg/m3	N	1.06	Fli
1705	**Lithium hydride**	**7580-67-8**	LHH000	7.95	mg/m3	Y	0.32	LiH
1706	Lithium hydroxide	1310-65-2	LHI100	23.95	mg/m3	Y	0.98	LiOH
1707	Lithium hydroxide monohydrate	1310-66-3	N.I.S. etc.	41.97	mg/m3	Y	1.72	Li.OH..H2O
1708	Lithium iodide	10377-51-2	N.I.S.	133.84	mg/m3	N	5.47	Li.I
1709	Lithium metaborate, anhydrous	13453-69-5	N.I.S.	49.75	mg/m3	N	2.03	Li..B.O2
1710	Lithium molybdate	13568-40-6	N.I.S. etc.	173.82	mg/m3	N	7.10	Li2MoO4
1711	Lithium niobium oxide; (Lithium niobate)	12031-63-9	N.I.S.	147.85	mg/m3	N	6.04	LiNbO3
1712	Lithium nitrate	7790-69-4	N.I.S.	69.00	mg/m3	N	2.82	LiNO3
1713	Lithium nitride	26134-62-3	LHM000	34.82	mg/m3	Y	1.42	Li3N
1714	Lithium nitrite	13568-33-7	N.I.S.	52.94	mg/m3	N	2.16	Li.N.O2
1715	Lithium perchlorate, anhydrous	7791-03-9	LHM875	106.39	mg/m3	N	4.35	Li.Cl.O4

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1702	Lithium deuteride	13587-16-1	S	680				0.906	D	
1703	Lithium diisopropylamide; (LDA)	4111-54-0	S					0.79		
1704	Lithium fluoride	7789-24-4	S	848	1676	1	1047	2.635	3	
1705	**Lithium hydride**	**7580-67-8**	S	680	850 dec	~0	20	0.76-0.77	3	
1706	Lithium hydroxide	1310-65-2	S	470	924 dec			2.54	3	
1707	Lithium hydroxide monohydrate	1310-66-3	S					1.51		
1708	Lithium iodide	10377-51-2	S	469	1171			4.06		
1709	Lithium metaborate, anhydrous	13453-69-5	S hygr	849	1719			2.18		
1710	Lithium molybdate	13568-40-6	S	705				2.66	D	
1711	Lithium niobium oxide; (Lithium niobate)	12031-63-9	S	1250					D	
1712	Lithium nitrate	7790-69-4	S	261	600 dec			2.38		
1713	Lithium nitride	26134-62-3	S	813				1.3	3	
1714	Lithium nitrite	13568-33-7	S							
1715	Lithium perchlorate, anhydrous	7791-03-9	L						3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1702	Lithium deuteride	13587-16-1	08/07/98		08/15/07	OSHA, AIHA.	NA
1703	Lithium diisopropylamide; (LDA)	4111-54-0	04/15/07		04/20/07		NA
1704	Lithium fluoride	7789-24-4	08/07/98				NA
1705	**Lithium hydride**	**7580-67-8**	10/31/92		07/30/07	OSHA, AIHA	3
1706	Lithium hydroxide	1310-65-2	08/21/96				NA
1707	Lithium hydroxide monohydrate	1310-66-3					NA
1708	Lithium iodide	10377-51-2					NA
1709	Lithium metaborate, anhydrous	13453-69-5					NA
1710	Lithium molybdate	13568-40-6	08/07/98				NA
1711	Lithium niobium oxide; (Lithium niobate)	12031-63-9	08/07/98				NA
1712	Lithium nitrate	7790-69-4	09/30/97				NA
1713	Lithium nitride	26134-62-3	09/30/97				NA
1714	Lithium nitrite	13568-33-7					NA
1715	Lithium perchlorate, anhydrous	7791-03-9					

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1716	Lithium stearate	4485-12-5	LHQ100	290.47	mg/m3	N	11.87	Li..C18.H35.O2
1717	Lithium sulfate	10377-48-7	LHR000	109.94	mg/m3	N	4.49	O4S·2Li
1718	Lithium tetraborate	12007-60-2	N.I.S.	259.19	mg/m3	N	10.59	Li2B4O7. 5H2O
1719	Lithium tetraborate pentahydrate	1303-94-2	N.I.S. etc.	163.08	mg/m3	N	6.67	LiBO2
1720	Lithium tetrahydroaluminate(1-); (Lithium aluminum hydride)	16853-85-3	LHS000	37.96	mg/m3	Y	1.55	Al.H4..Li
1721	Lithium triethylborodeuteride; (Super-deuteride)	74540-86-6	N.I.S., etc.	106.95	mg/m3	N	4.37	C6.H15.B.D.Li
1722	Lithium triethylborohydride; (Super-hydride)	22560-16-3	N.I.S. etc.	105.94	mg/m3	Y	4.33	Li.(C2.H5)3. BH
1723	Lubricating oil, rerefined	68476-77-7	N.I.S.		mg/m3	N		
1724	Lutetium	7439-94-3	N.I.S.	174.97	mg/m3	Y	7.15	Lu
1725	Lutetium oxide	12032-20-1	N.I.S.	397.93	mg/m3	N	16.26	Lu2O3
1726	Lutidine, 2,6-; (2,6-Dimethylpyridine)	108-48-5	LJA010	107.17	ppm	N	4.38	C7.H9.N
1727	Magnesium	7439-95-4	MAC750	24.31	mg/m3	N	0.99	Mg
1728	Magnesium acetate tetrahydrate	16674-78-5	N.I.S. etc.	250.30	mg/m3	N	10.23	Mg..C4.H6.O4..6 H2O
1729	**Magnesium aluminum phosphide**	**z-0116**	AHD250	182.80	ppm	Y	7.47	Mg3.Al.P3

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1716	Lithium stearate	4485-12-5	S	220				1.03	3	
1717	Lithium sulfate	10377-48-7	S	859					2	
1718	Lithium tetraborate	12007-60-2	S	930				2.4	D	
1719	Lithium tetraborate pentahydrate	1303-94-2	S	845				1.39741	D	
1720	Lithium tetrahydroaluminate(1-); (Lithium aluminum hydride)	16853-85-3	S reacts H2O	125 dec				0.92	3	
1721	Lithium triethylborodeuteride; (Super-deuteride)	74540-86-6						0.898		
1722	Lithium triethylborohydride; (Super-hydride)	22560-16-3	S							
1723	Lubricating oil, rerefined	68476-77-7	L							
1724	Lutetium	7439-94-3	S	1663	3402			9.84	3	
1725	Lutetium oxide	12032-20-1	S	2500				9.42		
1726	Lutidine, 2,6-; (2,6-Dimethylpyridine)	108-48-5	L	-5.8	144	5.65	25	0.9252 @ 20C	3	
1727	Magnesium	7439-95-4	S	651	1100	1	621	1.738	3	
1728	Magnesium acetate tetrahydrate	16674-78-5	L						3	
1729	**Magnesium aluminum phosphide**	**z-0116**	S						3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1716	Lithium stearate	4485-12-5					NA
1717	Lithium sulfate	10377-48-7	01/04/99				NA
1718	Lithium tetraborate	12007-60-2	08/07/98				NA
1719	Lithium tetraborate pentahydrate	1303-94-2	08/07/98				NA
1720	Lithium tetrahydroaluminate(1-); (Lithium aluminum hydride)	16853-85-3					3
1721	Lithium triethylborodeuteride; (Super-deuteride)	74540-86-6			04/20/07		NA
1722	Lithium triethylborohydride; (Super-hydride)	22560-16-3			04/20/07		NA
1723	Lubricating oil, rerefined	68476-77-7			04/20/07		NA
1724	Lutetium	7439-94-3			04/20/07		NA
1725	Lutetium oxide	12032-20-1	08/07/98				NA
1726	Lutidine, 2,6-; (2,6-Dimethylpyridine)	108-48-5			04/20/07		NA
1727	Magnesium	7439-95-4	07/09/97	03/24/08	03/24/08	RTECS, SAX.	NA
1728	Magnesium acetate tetrahydrate	16674-78-5					NA
1729	**Magnesium aluminum phosphide**	**z-0116**	12/28/07	07/19/08	12/28/07	EPA	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1730	Magnesium carbonate hydroxide	7760-50-1	N.I.S.	395.58	mg/m3	N	16.17	C2.H2.Mg5.O14
1731	Magnesium carbonate; (Magnesite)	546-93-0	MAC650	84.32	mg/m3	N	3.45	Mg.CO3
1732	Magnesium carbonate-magnesium hydroxide, pentahydrate	39409-82-0	N.I.S. etc.	395.58	mg/m3	N	16.17	C4.H2.Mg5.O14
1733	Magnesium chloride	7786-30-3	MAE250	95.21	mg/m3	N	3.89	Cl2Mg
1734	Magnesium chloride hexahydrate	7791-18-6	MAE500	203.33	mg/m3	N	8.31	Mg.Cl2-6H2O
1735	Magnesium ethoxide	2414-98-4	N.I.S.	114.43	mg/m3	N	4.68	C4.H10.Mg.O2
1736	Magnesium fluoride	7783-40-6	MAF500	62.31	mg/m3	N	2.55	F2Mg
1737	Magnesium formate	557-39-1	MAE750	150.31	mg/m3	N	6.14	Mg(CHO2)2. 2H2O
1738	Magnesium hydroxide	1309-42-8	MAG750	58.33	mg/m3	N	2.38	Mg-(OH)2
1739	Magnesium iodate tetrahydrate	7790-32-1	N.I.S.	446.17	mg/m3	N	18.24	Mg.(I.O3)2..4(H2.O)
1740	Magnesium nitrate hexahydrate	13446-18-9	N.I.S.	256.45	mg/m3	Y	10.48	Mg.N2.O6..6H2O
1741	Magnesium nitrate; (Magnesium(II) nitrate (1:2))	10377-60-3	MAH000	148.33	mg/m3	N	6.06	N2O6.Mg
1742	Magnesium oxide	1309-48-4	MAH500	40.31	mg/m3	N	1.65	MgO
1743	**Magnesium phosphide**	**12057-74-8**	MAI000	134.87	ppm	N	5.51	Mg3.P2

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1730	Magnesium carbonate hydroxide	7760-50-1	S							
1731	Magnesium carbonate; (Magnesite)	546-93-0	S	350 dec				3.04	1	
1732	Magnesium carbonate-magnesium hydroxide, pentahydrate	39409-82-0	S							
1733	Magnesium chloride	7786-30-3	S	714	1412			2.325	3	
1734	Magnesium chloride hexahydrate	7791-18-6	S	118 dec				1.59	3	
1735	Magnesium ethoxide	2414-98-4	S							
1736	Magnesium fluoride	7783-40-6	S	1263	2239			2.9-3.2	2	
1737	Magnesium formate	557-39-1	S							
1738	Magnesium hydroxide	1309-42-8	S amor	350 dec				2.36	2	
1739	Magnesium iodate tetrahydrate	7790-32-1	S	210 dec				3.3		
1740	Magnesium nitrate hexahydrate	13446-18-9	S	89	330 dec			1.46		
1741	Magnesium nitrate; (Magnesium(II) nitrate (1:2))	10377-60-3	S	95-100	330 dec			1.45	3	
1742	Magnesium oxide	1309-48-4	S	2800	3600	~0	20	3.65-3.75	2	
1743	**Magnesium phosphide**	**12057-74-8**	S						3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1730	Magnesium carbonate hydroxide	7760-50-1					NA
1731	Magnesium carbonate; (Magnesite)	546-93-0	07/09/97	07/10/08	07/10/08	GOEV, RTECS.	NA
1732	Magnesium carbonate-magnesium hydroxide, pentahydrate	39409-82-0					NA
1733	Magnesium chloride	7786-30-3	08/07/98				NA
1734	Magnesium chloride hexahydrate	7791-18-6					NA
1735	Magnesium ethoxide	2414-98-4					NA
1736	Magnesium fluoride	7783-40-6	09/30/97				NA
1737	Magnesium formate	557-39-1	08/07/98				NA
1738	Magnesium hydroxide	1309-42-8	01/04/99				NA
1739	Magnesium iodate tetrahydrate	7790-32-1					NA
1740	Magnesium nitrate hexahydrate	13446-18-9					NA
1741	Magnesium nitrate; (Magnesium(II) nitrate (1:2))	10377-60-3	08/07/98				NA
1742	Magnesium oxide	1309-48-4	08/21/96				NA
1743	**Magnesium phosphide**	**12057-74-8**	01/02/08	07/19/08	01/02/08	EPA	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1744	Magnesium silicate hydrate	1343-90-4	MAJ000	278.91	mg/m3	N	11.40	Mg2O8Si3H2O
1745	Magnesium silicate; (Florisil)	1343-88-0	N.I.S.		mg/m3	N		
1746	Magnesium sulfate (1:1)	7487-88-9	MAJ250	120.37	mg/m3	N	4.92	Mg.S.O4
1747	Magnesium sulfate heptahydrate	10034-99-8	MAJ500	246.51	mg/m3	N	10.08	Mg.S.O4..7H2O
1748	Magnesium(II) nitrate (1:2), hexahydrate	13446-18-9	MAH250	256.45	mg/m3	Y	10.48	Mg.N2.O6..6H2.O
1749	Malathion	121-75-5	MAK700	330.38	mg/m3	N	13.50	C10H19O6PS2
1750	Maleic acid	110-16-7	MAK900	116.08	mg/m3	Y	4.74	C4.H4.O4
1751	Maleic acid, disodium salt	371-47-1	SIE000	277.01	mg/m3	Y	11.32	C4.H4.O4..xNa
1752	**Maleic anhydride**	**108-31-6**	MAM000	98.06	ppm	N	4.01	C4.H2.O3
1753	Maleic hydrazide; (3,6-Pyridazinedione,1,2-dihydro-)	123-33-1	DMC600	112.10	mg/m3	N	4.58	C4.H4.N2.O2
1754	Malic acid, DL-	617-48-1	N.I.S.	134.09	mg/m3	Y	5.48	C4.H6.O5
1755	Malonic acid; (Carboxyacetic acid)	141-82-2	CCC750	104.07	mg/m3	Y	4.25	C3.H4.O4
1756	Mancozeb; (Dithane M-45)	8018-01-7	DXI400	541.03	mg/m3	N	22.11	C4.H6.Mn.N2.S4*C4.H6.N2.S4.Zn
1757	Manganese	7439-96-5	MAP750	54.94	mg/m3	Y	2.25	Mn

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1744	Magnesium silicate hydrate	1343-90-4	S						1	
1745	Magnesium silicate; (Florisil)	1343-88-0	S					2.5		
1746	Magnesium sulfate (1:1)	7487-88-9	S	1127				2.66	3	
1747	Magnesium sulfate heptahydrate	10034-99-8	S	loses 7H2O @	1124 dec			1.68	2	
1748	Magnesium(II) nitrate (1:2), hexahydrate	13446-18-9	S delq	~95				1.464	1	
1749	Malathion	121-75-5	L	2.9	156 @ 0.7mm	0.00004		1.23	3	
1750	Maleic acid	110-16-7	S	138-139	135 dec	3.59E-05	25	1.59	2	
1751	Maleic acid, disodium salt	371-47-1	S						2	
1752	**Maleic anhydride**	**108-31-6**	S	52.7	202.2	0.2	20	1.48	3	14000
1753	Maleic hydrazide; (3,6-Pyridazinedione,1,2-dihydro-)	123-33-1	S	>300				1.6	2	
1754	Malic acid, DL-	617-48-1	S	132				1.25		
1755	Malonic acid; (Carboxyacetic acid)	141-82-2	S	135.6				1.63	3	
1756	Mancozeb; (Dithane M-45)	8018-01-7	S powder	192-204 dec.					2	
1757	Manganese	7439-96-5	S	1244	2060	1	1292	7.2	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1744	Magnesium silicate hydrate	1343-90-4	09/30/97				NA
1745	Magnesium silicate; (Florisil)	1343-88-0					NA
1746	Magnesium sulfate (1:1)	7487-88-9					NA
1747	Magnesium sulfate heptahydrate	10034-99-8					NA
1748	Magnesium(II) nitrate (1:2), hexahydrate	13446-18-9			08/30/07	RTECS.	NA
1749	Malathion	121-75-5	09/30/97	02/26/08	02/26/08	GOEV, RTECS.	NA
1750	Maleic acid	110-16-7	08/07/98		06/26/07	RTECS	NA
1751	Maleic acid, disodium salt	371-47-1					NA
1752	**Maleic anhydride**	**108-31-6**	08/21/96		08/15/07	AIHA.	3
1753	Maleic hydrazide; (3,6-Pyridazinedione,1,2-dihydro-)	123-33-1					NA
1754	Malic acid, DL-	617-48-1			06/26/07	HSDB	NA
1755	Malonic acid; (Carboxyacetic acid)	141-82-2	08/07/98				NA
1756	Mancozeb; (Dithane M-45)	8018-01-7			04/20/07		NA
1757	Manganese	7439-96-5	09/30/97				NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1758	Manganese carbonate	598-62-9	MAR500	114.95	mg/m3	Y	4.70	Mn.C.H2.O3
1759	Manganese dioxide	1313-13-9	MAS000	86.94	mg/m3	Y	3.55	Mn.O2
1760	Manganese hydroxide	18933-05-6	MAR500	88.95	mg/m3	N	3.64	Mn(OH)2
1761	Manganese nitrite	18488-90-9	MAR500	146.95	mg/m3	Y	6.01	Mn(NO2)2
1762	Manganese oxalate	640-67-5	MAR500	142.95	mg/m3	Y	5.84	MnC2O4
1763	Manganese oxide; (Manganese tetroxide)	1317-35-7	MAV550	228.82	mg/m3	N	9.35	Mn3O4
1764	Manganese phosphate	10124-54-6	MAR500	354.75	mg/m3	Y	14.50	Mn3..(P.O4)2
1765	Manganese tricarbonyl methylcyclopentadienyl	12108-13-3	MAV750	218.10	mg/m3	Y	8.91	MnO3C9H7
1766	Manganese(II) chloride (1:2); (Manganous chloride)	7773-01-5	MAR000	125.84	mg/m3	N	5.14	Cl2Mn
1767	Manganese(II) chloride tetrahydrate	13446-34-9	MAR250	197.92	mg/m3	N	8.09	Mn..Cl2..4 H2O
1768	Manganese(II) nitrate	10377-66-9	MAS900	178.96	mg/m3	Y	7.31	N2O6.Mn
1769	Manganese(II) nitrate hydrate	15710-66-4	N.I.S. etc.	196.96	mg/m3	N	8.05	H2.Mn.N2.O7
1770	Manganese(II) sulfate monohydrate	10034-96-5	MAU300	169.02	mg/m3	Y	6.91	Mn.O4.S..H2.O
1771	Manganese(III) oxide	1317-34-6	MAT500	157.88	mg/m3	N	6.45	Mn2.O3

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1758	Manganese carbonate	598-62-9	S		200 dec			3.7		
1759	Manganese dioxide	1313-13-9	S	dec				5	3	
1760	Manganese hydroxide	18933-05-6	S	dec				3.26		
1761	Manganese nitrite	18488-90-9	S							
1762	Manganese oxalate	640-67-5	S							
1763	Manganese oxide; (Manganese tetroxide)	1317-35-7	S	1564				4.7	2	
1764	Manganese phosphate	10124-54-6	S							
1765	Manganese tricarbonyl methylcyclopentadienyl	12108-13-3	L/S	1.5	233	7.3	100	1.388 @ 20C	3	
1766	Manganese(II) chloride (1:2); (Manganous chloride)	7773-01-5	S deliq	654	1225			2.977	3	
1767	Manganese(II) chloride tetrahydrate	13446-34-9	S	58				2.01	3	
1768	Manganese(II) nitrate	10377-66-9	S	26	129			1.82	2	
1769	Manganese(II) nitrate hydrate	15710-66-4	S							
1770	Manganese(II) sulfate monohydrate	10034-96-5	S	700	850 dec			3.25	2	
1771	Manganese(III) oxide	1317-34-6	S	871-887	dec			5	2	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1758	Manganese carbonate	598-62-9					NA
1759	Manganese dioxide	1313-13-9	08/21/96				NA
1760	Manganese hydroxide	18933-05-6					NA
1761	Manganese nitrite	18488-90-9			08/23/07	GORV. NIOSH.	
1762	Manganese oxalate	640-67-5					NA
1763	Manganese oxide; (Manganese tetroxide)	1317-35-7	08/07/98				NA
1764	Manganese phosphate	10124-54-6			01/11/08	GOEV, NIOSH.	NA
1765	Manganese tricarbonyl methylcyclopentadienyl	12108-13-3					NA
1766	Manganese(II) chloride (1:2); (Manganous chloride)	7773-01-5					NA
1767	Manganese(II) chloride tetrahydrate	13446-34-9					NA
1768	Manganese(II) nitrate	10377-66-9	09/30/97				NA
1769	Manganese(II) nitrate hydrate	15710-66-4					NA
1770	Manganese(II) sulfate monohydrate	10034-96-5					NA
1771	Manganese(III) oxide	1317-34-6					NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1772	Manganese(VII) oxide	12057-92-0	MAT750	221.88	mg/m3	Y	9.07	Mn2O7
1773	Manganous oxide; (Manganese(II) oxide)	1344-43-0	MAT250	70.94	mg/m3	N	2.90	MnO
1774	Manganous sulfate	7785-87-7	MAU250	151.00	mg/m3	N	6.17	MnSO4.
1775	Manganous sulfide; (Manganese(II) sulfide)	18820-29-6	MAV000	87.00	mg/m3	N	3.56	MnS
1776	Mastic (resin)	61789-92-2	MBU777		mg/m3	N		[Unspecified]
1777	Melamine	108-78-1	MCB000	126.15	mg/m3	Y	5.16	C3H6N6
1778	Mephosfolan	950-10-7	DHH400	269.34	mg/m3	N	11.01	C8H16NO3PS2
1779	Mercaptoacetic acid; (Thioglycolic acid)	68-11-1	TFJ100	92.12	ppm	Y	3.77	C2.H4.O2.S
1780	Mercaptobenzoic acid, o-	147-93-3	MCK750	154.19	mg/m3	N	6.30	C7.H6.O2.S
1781	Mercaptobenzothiazole, 2-; (2-Benzothiazolethiol)	149-30-4	BDF000	167.25	mg/m3	N	6.84	C7H5NS2
1782	Mercaptoethanol, 2-	60-24-2	MCN250	78.14	ppm	Y	3.19	C2.H6.O.S
1783	Mercaptopropionic acid, 3-	107-96-0	MCQ000	106.15	mg/m3	N	4.34	C3.H6.O2.S
1784	Mercuric acetate	1600-27-7	MCS750	318.69	mg/m3	Y	13.03	Hg..C4.H6.O4
1785	Mercuric cyanide	592-04-1	MDA250	252.63	mg/m3	Y	10.33	Hg.C2N2

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1772	Manganese(VII) oxide	12057-92-0	L	5.9					3	
1773	Manganous oxide; (Manganese(II) oxide)	1344-43-0	S	1650				5.45	2	
1774	Manganous sulfate	7785-87-7	S	700	850 dec			3.25	3	
1775	Manganous sulfide; (Manganese(II) sulfide)	18820-29-6	S	3.99					2	
1776	Mastic (resin)	61789-92-2	S						1	
1777	Melamine	108-78-1	S	347	subl.	50	315	1.573	2	
1778	Mephosfolan	950-10-7	S		410	1E-10	25	1.539 @ 26C	3	
1779	Mercaptoacetic acid; (Thioglycolic acid)	68-11-1	L	-16.5	108 @ 15mm	0.0868	25	1.325	3	59000
1780	Mercaptobenzoic acid, o-	147-93-3	S	164		subl.			3	
1781	Mercaptobenzothiazole, 2-; (2-Benzothiazolethiol)	149-30-4	S	177-179				1.52	3	
1782	Mercaptoethanol, 2-	60-24-2	L		157-158	1	20	1.1168 @ 20C	3	23000
1783	Mercaptopropionic acid, 3-	107-96-0	I	16.8	114-115.5			1.218 @ 21C	3	16000
1784	Mercuric acetate	1600-27-7	S	178-180	decom			3.28	3	
1785	Mercuric cyanide	592-04-1	S	320 decom				3.996	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1772	Manganese(VII) oxide	12057-92-0					NA
1773	Manganous oxide; (Manganese(II) oxide)	1344-43-0					NA
1774	Manganous sulfate	7785-87-7	11/15/96				NA
1775	Manganous sulfide; (Manganese(II) sulfide)	18820-29-6	08/07/98				NA
1776	Mastic (resin)	61789-92-2	09/30/97				NA
1777	Melamine	108-78-1	01/04/99				NA
1778	Mephosfolan	950-10-7					NA
1779	Mercaptoacetic acid; (Thioglycolic acid)	68-11-1			04/20/07		NA
1780	Mercaptobenzoic acid, o-	147-93-3					NA
1781	Mercaptobenzothiazole, 2-; (2-Benzothiazolethiol)	149-30-4	08/07/98		08/24/07	GOEV, NIOSH.	NA
1782	Mercaptoethanol, 2-	60-24-2			08/24/07	GOEV, NIOSH.	3
1783	Mercaptopropionic acid, 3-	107-96-0			08/24/07	GOEV, NIOSH.	NA
1784	Mercuric acetate	1600-27-7		04/02/08	01/15/08	GOEV, RTECS.	NA
1785	Mercuric cyanide	592-04-1		04/02/08	08/24/07	GOEV, NIOSH.	3

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1786	Mercuric iodide; (Mercury(II) iodide)	7774-29-0	MDD000	454.39	mg/m3	N	18.57	HgI2
1787	Mercuric sulfate; (Mercury(II) sulfate)	7783-35-9	MDG500	296.65	mg/m3	Y	12.12	Hg.SO4
1788	Mercuric thiocyanate; (Mercuric sulfocyanate)	592-85-8	MCU250	316.79	mg/m3	N	12.95	Hg(SCN)2
1789	Mercuric trifluoroacetate	13257-51-7	N.I.S. etc.	426.62	mg/m3	Y	17.44	Hg.(C.F3.C.O.O)2
1790	Mercurol; (Mercury nucleate)	12002-19-6	MCV250		mg/m3	N		20% Hg
1791	Mercurous chloride; (Mercury monochloride)	7546-30-7	MCW000	236.04	mg/m3	N	9.65	Hg.Cl
1792	Mercurous nitrate monohydrate	7782-86-7	MCZ000	281.62	mg/m3	Y	11.51	Hg.(NO3)H.H2O
1793	Mercurous nitrate; (Mercury(I) nitrate(1:1))	10415-75-5	MDE750	262.60	mg/m3	Y	10.73	Hg.NO3
1794	Mercurous oxide; (Mercury(I) oxide)	15829-53-5	MDF750	417.22	mg/m3	Y	17.05	Hg2O
1795	Mercury hydroxide	12135-13-6	N.I.S. etc.	234.61	mg/m3	Y	9.59	Hg.(OH)2
1796	Mercury nitrate; (Mercury(II) nitrate (1:2))	10045-94-0	MDF000	324.61	mg/m3	Y	13.27	Hg.(NO3)2
1797	Mercury nitrite; (Mercury(II) nitrite)	18541-72-5	MCZ000	292.59	mg/m3	Y	11.96	Hg.(N.O2)2
1798	**Mercury vapor**	**7439-97-6**	MCW250	200.59	mg/m3	Y	8.20	Hg (element)
1799	Mercury(I) chloride; (Dimercury chloride)	10112-91-1	MCY300	472.08	mg/m3	N	19.29	Cl2.Hg2

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1786	Mercuric iodide; (Mercury(II) iodide)	7774-29-0	S	259	~350			6.28	3	
1787	Mercuric sulfate; (Mercury(II) sulfate)	7783-35-9	S	decom				6.47	3	
1788	Mercuric thiocyanate; (Mercuric sulfocyanate)	592-85-8	S						3	
1789	Mercuric trifluoroacetate	13257-51-7	S	171-173					2	
1790	Mercurol; (Mercury nucleate)	12002-19-6	S						3	
1791	Mercurous chloride; (Mercury monochloride)	7546-30-7	S	400 subl				7.15	3	
1792	Mercurous nitrate monohydrate	7782-86-7	S	79.1 del				4.3	3	
1793	Mercurous nitrate; (Mercury(I) nitrate(1:1))	10415-75-5	S	70 decom				4.78	3	
1794	Mercurous oxide; (Mercury(I) oxide)	15829-53-5	S	100 dec				9.8	3	
1795	Mercury hydroxide	12135-13-6	S							
1796	Mercury nitrate; (Mercury(II) nitrate (1:2))	10045-94-0	S	79	decom			4.39	3	
1797	Mercury nitrite; (Mercury(II) nitrite)	18541-72-5	S							
1798	**Mercury vapor**	**7439-97-6**	L	-38.9	356.7	0.00225		13.534	3	
1799	Mercury(I) chloride; (Dimercury chloride)	10112-91-1	S	400 subl.				7.15	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1786	Mercuric iodide; (Mercury(II) iodide)	7774-29-0	09/30/97	04/02/08	08/24/07	GOEV, NIOSH.	NA
1787	Mercuric sulfate; (Mercury(II) sulfate)	7783-35-9		04/02/08	08/24/07	GOEV, NIOSH.	NA
1788	Mercuric thiocyanate; (Mercuric sulfocyanate)	592-85-8	08/07/98	04/02/08	08/24/07	GOEV, NIOSH.	NA
1789	Mercuric trifluoroacetate	13257-51-7		04/02/08	04/20/07	GOEV, NIOSH.	NA
1790	Mercurol; (Mercury nucleate)	12002-19-6	01/-4/99	04/02/08	08/24/07	GOEV, NIOSH.	NA
1791	Mercurous chloride; (Mercury monochloride)	7546-30-7	08/07/98	04/02/08	08/24/07	GOEV, NIOSH.	NA
1792	Mercurous nitrate monohydrate	7782-86-7		04/02/08	08/24/07	GOEV, NIOSH.	NA
1793	Mercurous nitrate; (Mercury(I) nitrate(1:1))	10415-75-5		04/02/08	08/24/07	GOEV, NIOSH.	NA
1794	Mercurous oxide; (Mercury(I) oxide)	15829-53-5	09/30/97	04/02/08	08/24/07	GOEV, NIOSH.	NA
1795	Mercury hydroxide	12135-13-6		04/02/08	08/24/07	GOEV, NIOSH.	NA
1796	Mercury nitrate; (Mercury(II) nitrate (1:2))	10045-94-0	08/21/96	04/02/08	08/24/07	GOEV, NIOSH.	NA
1797	Mercury nitrite; (Mercury(II) nitrite)	18541-72-5		04/02/08	08/24/07	GOEV, NIOSH.	NA
1798	**Mercury vapor**	**7439-97-6**	10/31/92	04/02/08	12/21/07	GOEV, AIHA.	NA
1799	Mercury(I) chloride; (Dimercury chloride)	10112-91-1		04/02/08	08/24/07	GOEV, NIOSH.	NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1800	Mercury(II) chloride; (Mercury bichloride)	7487-94-7	MCY475	271.50	mg/m3	Y	11.10	Cl2Hg
1801	Mercury(II) nitrate monohydrate	7783-34-8	N.I.S.	342.62	mg/m3	N	14.00	Hg(N.O3)2..H2.O
1802	Mercury(II) oxide; (Mercuric oxide)	21908-53-2	MCT500	216.59	mg/m3	Y	8.85	HgO
1803	**Mesitylene; (1,3,5-Trimethylbenzene)**	**108-67-8**	TLM050	120.21	ppm	Y	4.91	C9H12
1804	Metaphosphoric acid	37267-86-0	N.I.S.	79.98	mg/m3	N	3.27	H.P.O3
1805	Methacrolein diacetate; (Acetic acid, 2-methyl-2-propene-1,1-diol diester)	10476-95-6	AAW250	172.20	mg/m3	N	7.04	C8H12O4
1806	**Methacrylaldehyde**	**78-85-3**	MGA250	70.10	ppm	Y	2.87	C4H6O
1807	Methacrylamide	79-39-0	MDN500	85.12	mg/m3	Y	3.48	C4.H7.N.O
1808	**Methacrylic acid**	**79-41-4**	MDN250	86.10	ppm	Y	3.52	H2C=C(CH3)CO.OH
1809	Methacrylic acid, diester with triethylene glycol; (Polyester TGM3)	109-16-0	MDN510	286.36	mg/m3	N	11.70	C14H22O6
1810	Methacrylic anhydride	760-93-0	MDN699	154.18	mg/m3	N	6.30	C8H10O3
1811	**Methacrylonitrile; (Methylacrylonitrile)**	**126-98-7**	MGA750	67.10	ppm	N	2.74	C4H5N
1812	Methacryloyl chloride	920-46-7	MDN899	104.54	ppm	N	4.27	C4H5ClO
1813	Methamidophos	10265-92-6	DTQ400	141.14	mg/m3	N	5.77	C2H8NO2PS

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1800	Mercury(II) chloride; (Mercury bichloride)	7487-94-7	S	280	302	1	136.2	5.44	3	
1801	Mercury(II) nitrate monohydrate	7783-34-8	S hygr.	79				4.3		
1802	Mercury(II) oxide; (Mercuric oxide)	21908-53-2	S	500 dec				11.14	3	
1803	**Mesitylene; (1,3,5-Trimethylbenzene)**	**108-67-8**	L	-44.8	164.7	2.48	25	0.8637	3	10000
1804	Metaphosphoric acid	37267-86-0	S hygr	21	260	0.03	25			
1805	Methacrolein diacetate; (Acetic acid, 2-methyl-2-propene-1,1-diol diester)	10476-95-6	L		191	0.35	25	1.051 @ 20C	3	
1806	**Methacrylaldehyde**	**78-85-3**	L	-81	68-70	120	20	0.830 @ 20C	3	
1807	Methacrylamide	79-39-0	S	105-107	215				3	
1808	**Methacrylic acid**	**79-41-4**	L	16	163	1	25.5	1.014	3	16000
1809	Methacrylic acid, diester with triethylene glycol; (Polyester TGM3)	109-16-0	L						1	
1810	Methacrylic anhydride	760-93-0	L		240	0.01	25	1.035	3	
1811	**Methacrylonitrile; (Methylacrylonitrile)**	**126-98-7**	L	-36	90.3	40	12.8	0.805	3	20000
1812	Methacryloyl chloride	920-46-7	L	-60	96	40	25		3	
1813	Methamidophos	10265-92-6	S	40	dec	0.0003	25	1.31 @ 44.5C	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1800	Mercury(II) chloride; (Mercury bichloride)	7487-94-7	09/30/97	04/02/08	08/24/07	GOEV, NIOSH.	NA
1801	Mercury(II) nitrate monohydrate	7783-34-8	09/30/97	04/02/08	08/24/07	GOEV, NIOSH.	NA
1802	Mercury(II) oxide; (Mercuric oxide)	21908-53-2	07/09/97	04/02/08	08/24/07	GOEV, NIOSH.	NA
1803	**Mesitylene; (1,3,5-Trimethylbenzene)**	**108-67-8**	09/30/97	02/04/08	12/28/07	GOEV, EPA, RTECS.	2
1804	Metaphosphoric acid	37267-86-0					NA
1805	Methacrolein diacetate; (Acetic acid, 2-methyl-2-propene-1,1-diol diester)	10476-95-6					NA
1806	**Methacrylaldehyde**	**78-85-3**			06/27/08	EPA.	3
1807	Methacrylamide	79-39-0					NA
1808	**Methacrylic acid**	**79-41-4**		02/04/08	08/15/07	EPA.	3
1809	Methacrylic acid, diester with triethylene glycol; (Polyester TGM3)	109-16-0	09/30/97				NA
1810	Methacrylic anhydride	760-93-0					NA
1811	**Methacrylonitrile; (Methylacrylonitrile)**	**126-98-7**	01/04/99	07/18/08	08/15/07	EPA.	4
1812	Methacryloyl chloride	920-46-7					NA
1813	Methamidophos	10265-92-6					NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1814	Methane	74-82-8	MDQ750	16.05	ppm	N	0.66	CH4
1815	Methane-d3	676-80-2	N.I.S. etc.	19.07	ppm	N	0.78	C.H.D3
1816	Methanesulfonic acid	75-75-2	MDR250	96.01	mg/m3	Y	3.92	CH4O3S
1817	Methanesulfonic acid, ethyl ester; (Ethyl methanesulfonate)	62-50-0	EMF500	124.17	mg/m3	N	5.07	C3H8O3S
1818	**Methanesulfonyl chloride**	**124-63-0**	MDR300	114.55	ppm	Y	4.68	C.H3.Cl.O2.S
1819	Methanesulfonyl fluoride	558-25-8	MDR750	98.10	ppm	N	4.01	CH3FO2S
1820	Methidathion; (O,O-Dimethyl-S-(5-methoxy-1,3,4-thiadiazolinyl-3-	950-37-8	DSO000	302.34	mg/m3	Y	12.36	C6H11N2O4PS3
1821	Methiocarb; (Mercaptodimethur)	2032-65-7	DST000	225.33	mg/m3	N	9.21	C11H15NO2S
1822	Methomyl	16752-77-5	MDU600	162.23	mg/m3	N	6.63	C5H10N2O2S
1823	Methoxybenzaldehyde; (p-Anisaldehyde)	123-11-5	AOT530	136.15	mg/m3	Y	5.56	C8.H8.O2
1824	Methoxybenzyl alcohol, 4-	105-13-5	MED500	138.18	mg/m3	N	5.65	C8.H10.O2
1825	Methoxychlor	72-43-5	MEI450	345.66	mg/m3	N	14.13	C16H15Cl3O2
1826	Methoxyethoxy)ethanol, 2-(2-; (Diethylene glycol monomethyl ether)	111-77-3	DJG000	120.17	ppm	Y	4.91	C5H12O3
1827	Methoxyethylamine, 2-	109-85-3	MEM500	75.13	ppm	N	3.07	C3H9NO

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1814	Methane	74-82-8	G	-182.5	-161.6	>760		0.7168	3	50000
1815	Methane-d3	676-80-2	G	-183	-163					
1816	Methanesulfonic acid	75-75-2	S/L	20	167 @ 10mm			1.4812	3	
1817	Methanesulfonic acid, ethyl ester; (Ethyl methanesulfonate)	62-50-0	L		213	0.328	25	1.1452 @ 22C	3	
1818	**Methanesulfonyl chloride**	**124-63-0**	L	-32	62 @ 18 mm	18	62	1.4805 @ 18C	D	
1819	Methanesulfonyl fluoride	558-25-8	L		124	10	25		3	
1820	Methidathion; (O,O-Dimethyl-S-(5-methoxy-1,3,4-thiadiazolinyl-3-	950-37-8	S	39-40		0.000001	25	1.495 @ 20C	3	
1821	Methiocarb; (Mercaptodimethur)	2032-65-7	S	117-118	325	0.0001	25		3	
1822	Methomyl	16752-77-5	S	78-79	335	0.00005	25	1.2946 @ 24C	3	
1823	Methoxybenzaldehyde; (p-Anisaldehyde)	123-11-5	L	0	249.5	1	73	1.123 @ 20C	2	
1824	Methoxybenzyl alcohol, 4-	105-13-5	L/S	25	259.1			1.108	2	
1825	Methoxychlor	72-43-5	S	78				12 vapor	3	
1826	Methoxyethoxy)ethanol, 2-(2-; (Diethylene glycol monomethyl ether)	111-77-3	L	-70	194.2	0.2	20	1.0354	2	15000
1827	Methoxyethylamine, 2-	109-85-3	L		95				3	30000

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1814	Methane	74-82-8	10/31/92				2
1815	Methane-d3	676-80-2			04/20/07		NA
1816	Methanesulfonic acid	75-75-2	08/07/98				NA
1817	Methanesulfonic acid, ethyl ester; (Ethyl methanesulfonate)	62-50-0					NA
1818	**Methanesulfonyl chloride**	**124-63-0**		07/18/08	07/18/08	EPA.	NA
1819	Methanesulfonyl fluoride	558-25-8					NA
1820	Methidathion; (O,O-Dimethyl-S-(5-methoxy-1,3,4-thiadiazolinyl-3-	950-37-8					NA
1821	Methiocarb; (Mercaptodimethur)	2032-65-7					NA
1822	Methomyl	16752-77-5					NA
1823	Methoxybenzaldehyde; (p-Anisaldehyde)	123-11-5			04/20/07		NA
1824	Methoxybenzyl alcohol, 4-	105-13-5			04/20/07		NA
1825	Methoxychlor	72-43-5	08/21/96				NA
1826	Methoxyethoxy)ethanol, 2-(2-; (Diethylene glycol monomethyl ether)	111-77-3	01/04/99				1
1827	Methoxyethylamine, 2-	109-85-3	08/07/98				NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1828	Methoxyethylmercuric acetate	151-38-2	MEO750	318.74	mg/m3	N	13.03	C5H10HgO3
1829	Methoxyphenol, p-	150-76-5	MFC700	124.15	mg/m3	Y	5.07	C7.H8.O2
1830	Methoxypropylamine, 3-; (3-MPA)	5332-73-0	MFM000	89.16	ppm	Y	3.64	C4H11NO
1831	Methoxytrimethylsilane	1825-61-2	N.I.S.	104.22	ppm	N	4.26	C4-H12-O-Si
1832	Methyl 2-cyanoacrylate; (Permabond 910 adhesive)	137-05-3	MIQ075	111.11	ppm	Y	4.54	C5-H5-N-O2
1833	Methyl 2-pyrrolidinone, 1-; (N-Methylpyrrolidone)	872-50-4	MPF200	99.15	ppm	Y	4.05	C5H9NO
1834	Methyl acetate	79-20-9	MFW100	74.09	ppm	Y	3.03	C3.H6.O2
1835	Methyl acetylene	74-99-7	MFX590	40.07	ppm	N	1.64	HC==CCH3
1836	Methyl acetylene-propadiene mixture; (MAPP)	59355-75-8	MFX600	80.19	ppm	Y	3.28	C6.H8
1837	Methyl acrylate	96-33-3	MGA500	86.10	ppm	Y	3.52	CH3OCO-CH=CH2
1838	**Methyl alcohol; (Methanol)**	**67-56-1**	MGB150	32.05	ppm	Y	1.31	CH3.OH
1839	Methyl alcohol-d	1455-13-6	N.I.S. etc.	33.05	ppm	N	1.35	D.O..C.H3
1840	Methyl alcohol-d4	811-98-3	N.I.S.	36.07	mg/m3	N	1.47	D.O..C.D3
1841	Methyl benzoate; (Benzoic acid, methyl ester)	93-58-3	MHA759	136.16	ppm	Y	5.57	C8.H8.O2

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1828	Methoxyethylmercuric acetate	151-38-2	S	42		0.00001	25		3	
1829	Methoxyphenol, p-	150-76-5	S	52.5	246			1.55 @ 20C	3	
1830	Methoxypropylamine, 3-; (3-MPA)	5332-73-0	L	-75.7	116	20	30	0.8615	3	
1831	Methoxytrimethylsilane	1825-61-2								
1832	Methyl 2-cyanoacrylate; (Permabond 910 adhesive)	137-05-3	L	-22.5	200.5	0.2	25	1.1012	2	
1833	Methyl 2-pyrrolidinone, 1-; (N-Methylpyrrolidone)	872-50-4	L	-17	202			1.027	3	13000
1834	Methyl acetate	79-20-9	L	-98.7	57.8	100	9.4	0.92438	3	31000
1835	Methyl acetylene	74-99-7	G	-104	-23.3	3876	20	1.38	3	17000
1836	Methyl acetylene-propadiene mixture; (MAPP)	59355-75-8	G	-38 - -20					3	30000
1837	Methyl acrylate	96-33-3	L	-76.5	85	100	28	0.9561 @ 20C	3	28000
1838	**Methyl alcohol; (Methanol)**	**67-56-1**	L	-97.8	63.9	96	20	0.7915	3	55000
1839	Methyl alcohol-d	1455-13-6	L	11	65.5			0.81	2	60000
1840	Methyl alcohol-d4	811-98-3	L	11	65.4			0.888	2	60000
1841	Methyl benzoate; (Benzoic acid, methyl ester)	93-58-3	L	-12.5	199.6	1	39	1.082	2	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1828	Methoxyethylmercuric acetate	151-38-2					NA
1829	Methoxyphenol, p-	150-76-5					2
1830	Methoxypropylamine, 3-; (3-MPA)	5332-73-0	01/04/99				3
1831	Methoxytrimethylsilane	1825-61-2					NA
1832	Methyl 2-cyanoacrylate; (Permabond 910 adhesive)	137-05-3					NA
1833	Methyl 2-pyrrolidinone, 1-; (N-Methylpyrrolidone)	872-50-4	01/04/99		04/20/07		2
1834	Methyl acetate	79-20-9	04/15/07		04/20/07		2
1835	Methyl acetylene	74-99-7	08/07/98				1
1836	Methyl acetylene-propadiene mixture; (MAPP)	59355-75-8	08/07/98				NA
1837	Methyl acrylate	96-33-3					3
1838	**Methyl alcohol; (Methanol)**	**67-56-1**	10/31/92	02/04/08	08/13/07	GOEV, EPA	1
1839	Methyl alcohol-d	1455-13-6			04/20/07		NA
1840	Methyl alcohol-d4	811-98-3	04/15/07		04/20/07		NA
1841	Methyl benzoate; (Benzoic acid, methyl ester)	93-58-3	04/15/07		04/20/07		1

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1842	Methyl bis(2-hydroxyethyl) cocoalkyl quaternary ammonium chlorides	70750-47-9	N.I.S.		mg/m3	Y		
1843	Methyl bis(2-hydroxyethyl) cocoalkyl quaternary ammonium nitrates	71487-00-8	N.I.S.		mg/m3	Y		
1844	**Methyl bromide; (Bromomethane)**	**74-83-9**	MHR200	94.95	ppm	Y	3.88	CH3Br
1845	Methyl butylacrylate, 2-; (Butyl methacrylate)	97-88-1	MHU750	142.22	mg/m3	Y	5.81	C8.H14.O2
1846	**Methyl chloride**	**74-87-3**	MIF765	50.49	ppm	Y	2.06	CH3.Cl
1847	**Methyl chloroformate; (Methyl chlorocarbonate)**	**79-22-1**	MIG000	94.50	ppm	Y	3.86	C2H3ClO2
1848	**Methyl chlorosilane; (Chloromethylsilane)**	**993-00-0**	N.I.S. etc.	80.59	ppm	Y	3.29	CH5ClSi
1849	**Methyl cyclohexylfluorophosphonate; (GF)**	**329-99-7**	MIT600	180.18	ppm	N	7.36	C7H14FO2P
1850	Methyl demeton methyl; (Phosphorothioic acid, O,O-dimethyl-S-(2-methylthio)ethyl	2587-90-8	MIW250	216.27	mg/m3	N	8.84	C5H13O3PS2
1851	**Methyl dichlorosilane; (Dichloromethylsilane)**	**75-54-7**	DFS000	115.04	ppm	Y	4.70	C.H4.Cl2.Si
1852	Methyl difluorophosphite; (Methylphosphonic difluoride)	676-99-3	MJD275	100.01	mg/m3	N	4.09	CH3F2OP
1853	Methyl ether; (Dimethyl ether)	115-10-6	MJW500	46.08	ppm	N	1.88	C2H6O
1854	Methyl ethyl ketone peroxide	1338-23-4	MKA500	176.24	ppm	Y	7.20	C8H16O4

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1842	Methyl bis(2-hydroxyethyl) cocoalkyl quaternary ammonium chlorides	70750-47-9	S							
1843	Methyl bis(2-hydroxyethyl) cocoalkyl quaternary ammonium nitrates	71487-00-8	S							
1844	**Methyl bromide; (Bromomethane)**	**74-83-9**	G	-93.9	3.3	>760		1.732 @ 0C	3	100000
1845	Methyl butylacrylate, 2-; (Butyl methacrylate)	97-88-1	L	-75	163	2.12	25	0.8836 @ 20C	3	20000
1846	**Methyl chloride**	**74-87-3**	G	-97.8	-24.4	>760		0.918	3	81000
1847	**Methyl chloroformate; (Methyl chlorocarbonate)**	**79-22-1**	L		71.4			1.223	3	67000
1848	**Methyl chlorosilane; (Chloromethylsilane)**	**993-00-0**	G	-135	-45					20000
1849	**Methyl cyclohexylfluorophosphonate; (GF)**	**329-99-7**							3	
1850	Methyl demeton methyl; (Phosphorothioic acid, O,O-dimethyl-S-(2-methylthio)ethyl	2587-90-8	L		230			1.207 @ 20C	3	
1851	**Methyl dichlorosilane; (Dichloromethylsilane)**	**75-54-7**	L	-93	41	429	25	1.10 @ 27C	3	
1852	Methyl difluorophosphite; (Methylphosphonic difluoride)	676-99-3	L		98			1.33	3	
1853	Methyl ether; (Dimethyl ether)	115-10-6	G	-138.5	-23.7	4450	25	0.661	3	20000
1854	Methyl ethyl ketone peroxide	1338-23-4	L						3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1842	Methyl bis(2-hydroxyethyl) cocoalkyl quaternary ammonium chlorides	70750-47-9	06/16/08		06/16/08	MSDS	
1843	Methyl bis(2-hydroxyethyl) cocoalkyl quaternary ammonium nitrates	71487-00-8	06/16/08		06/16/08	MSDS	
1844	**Methyl bromide; (Bromomethane)**	**74-83-9**	08/21/96	02/04/08	08/15/07	GOEV, EPA.	3
1845	Methyl butylacrylate, 2-; (Butyl methacrylate)	97-88-1					1
1846	**Methyl chloride**	**74-87-3**	10/31/92	02/04/08	08/15/07	GOEV, EPA.	2
1847	**Methyl chloroformate; (Methyl chlorocarbonate)**	**79-22-1**	01/04/99		06/27/08	GOEV, EPA.	NA
1848	**Methyl chlorosilane; (Chloromethylsilane)**	**993-00-0**		07/18/08	01/02/08	EPA	NA
1849	**Methyl cyclohexylfluorophosphonate; (GF)**	**329-99-7**		07/18/08	08/09/07	EPA	NA
1850	Methyl demeton methyl; (Phosphorothioic acid, O,O-dimethyl-S-(2-methylthio)ethyl	2587-90-8					NA
1851	**Methyl dichlorosilane; (Dichloromethylsilane)**	**75-54-7**	12/28/07	02/05/08	12/28/07	EPA	4
1852	Methyl difluorophosphite; (Methylphosphonic difluoride)	676-99-3	03/01/00				NA
1853	Methyl ether; (Dimethyl ether)	115-10-6	01/04/99		04/20/07		2
1854	Methyl ethyl ketone peroxide	1338-23-4	09/30/97				NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1855	Methyl fluoride; (Fluoromethane)	593-53-3	FJK000	34.03	mg/m3	N	1.39	CH3.F
1856	Methyl fluoroacetate	453-18-9	MKD000	92.08	mg/m3	N	3.76	C3H5FO2
1857	Methyl fluorosulfate	421-20-5	MKG250	114.10	ppm	Y	4.66	CH3FO3S
1858	Methyl formate; (Formic acid, methyl ester)	107-31-3	MKG750	60.06	ppm	Y	2.45	C2H4O2
1859	**Methyl iodide**	**74-88-4**	MKW200	141.94	ppm	Y	5.80	CH3.I
1860	Methyl isobutyl ketone; (Hexone)	108-10-1	HFG500	100.18	ppm	Y	4.09	(CH3)2-CH-CH2CO-CH3
1861	**Methyl isocyanate**	**624-83-9**	MKX250	57.06	ppm	Y	2.33	CH3NCO
1862	Methyl isopropyl ketone; (3-Methyl-2-butanone)	563-80-4	MLA750	86.15	ppm	Y	3.52	C5H10O
1863	Methyl isothiocyanate; (Isothiocyanatomethane)	556-61-6	ISE000	73.12	mg/m3	Y	2.99	C2H3NS
1864	Methyl lithium	917-54-4	MLD000	21.98	mg/m3	Y	0.90	Li.C.H3
1865	**Methyl mercaptan**	**74-93-1**	MLE650	48.11	ppm	Y	1.97	CH3.SH
1866	Methyl mercury	22967-92-6	MLF550	215.63	mg/m3	Y	8.81	CH3.Hg
1867	**Methyl methacrylate**	**80-62-6**	MLH750	100.13	ppm	Y	4.09	CH2-C(CH3)-COOCH3
1868	Methyl n-amyl ketone	110-43-0	MGN500	114.21	ppm	Y	4.67	C7H14O

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1855	Methyl fluoride; (Fluoromethane)	593-53-3	G	-142	-78.2	>760		0.8774@ -78C	3	73330
1856	Methyl fluoroacetate	453-18-9	L		104.5			1.161 @ 15C	3	
1857	Methyl fluorosulfate	421-20-5	L		92			1.427 @ 16C	3	
1858	Methyl formate; (Formic acid, methyl ester)	107-31-3	L	-99.8	31.5	400	16	0.975 @ 20C	3	45000
1859	**Methyl iodide**	**74-88-4**	L	-66.7	42.8	326		2.279	3	100000
1860	Methyl isobutyl ketone; (Hexone)	108-10-1	L	-84.4	116.7	16	20	0.801	3	12000
1861	**Methyl isocyanate**	**624-83-9**	L	-45	39.1	348	20	0.9599	3	53000
1862	Methyl isopropyl ketone; (3-Methyl-2-butanone)	563-80-4	L		93-94			0.805 @ 16C	3	15000
1863	Methyl isothiocyanate; (Isothiocyanatomethane)	556-61-6	S/L	36	119	19	20	1.069 @ 37C	3	
1864	Methyl lithium	917-54-4	L					0.701	3	
1865	**Methyl mercaptan**	**74-93-1**	G	-121.1	6.1	>760		0.8665	3	39000
1866	Methyl mercury	22967-92-6	S						3	
1867	**Methyl methacrylate**	**80-62-6**	L	-48.2	101	2	20	0.936	3	17000
1868	Methyl n-amyl ketone	110-43-0	L		151.5	2.6	20	0.8197	3	10000

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1855	Methyl fluoride; (Fluoromethane)	593-53-3	10/31/92				NA
1856	Methyl fluoroacetate	453-18-9					NA
1857	Methyl fluorosulfate	421-20-5					NA
1858	Methyl formate; (Formic acid, methyl ester)	107-31-3					2
1859	**Methyl iodide**	**74-88-4**	10/31/92		08/15/07	GOEV, AIHA.	NA
1860	Methyl isobutyl ketone; (Hexone)	108-10-1	08/21/96	02/27/08	02/27/08	GOEV, RTECS.	1
1861	**Methyl isocyanate**	**624-83-9**	08/21/96	07/18/08	07/18/08	GOEV, EPA.	4
1862	Methyl isopropyl ketone; (3-Methyl-2-butanone)	563-80-4					NA
1863	Methyl isothiocyanate; (Isothiocyanatomethane)	556-61-6					NA
1864	Methyl lithium	917-54-4					NA
1865	**Methyl mercaptan**	**74-93-1**	10/31/92	02/04/08	08/15/07	GOEV, AIHA, EPA.	4
1866	Methyl mercury	22967-92-6	03/01/00	04/03/08	04/03/08	GOEV, NIOSH, RTECS.	NA
1867	**Methyl methacrylate**	**80-62-6**	08/21/96	02/04/08	08/15/07	GOEV, EPA.	2
1868	Methyl n-amyl ketone	110-43-0	09/30/97				1

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1869	Methyl nitrate; (Nitric acid, methyl ester)	598-58-3	MMF500	77.05	ppm	N	3.15	C.H3..N.O3
1870	**Methyl nonafluorobutyl ether (40%) and Methyl nonafluoroisobutyl ether (60%) (ppm) (HFE-7100)**	**163702-07-6 163702-08-7**	N.I.S.	250.06	ppm	N	10.22	C5.H3.F9.O
1871	Methyl parathion	298-00-0	MNH000	263.22	mg/m3	N	10.76	C8H10NO5PS
1872	Methyl phencapton	3735-23-7	MNO750	349.25	mg/m3	N	14.27	C9H11Cl2O2PS2
1873	Methyl phosphonic dichloride	676-97-1	MOB399	132.91	mg/m3	Y	5.43	CH3Cl2OP
1874	Methyl phosphonothioic dichloride	676-98-2	MOC000	148.97	mg/m3	Y	6.09	CH3Cl2PS
1875	Methyl pyridine, 3-; (3-Picoline)	108-99-6	PIB920	93.14	ppm	Y	3.81	C6H7N
1876	Methyl salicylate	119-36-8	MPI000	152.16	ppm	Y	6.22	C8H8O3
1877	Methyl sulfoxide-d6; (Dimethyl-d6-sulfoxide)	2206-27-1	N.I.S.	84.15	mg/m3	Y	3.44	C2.D6.O.S
1878	**Methyl tert-butyl ether; (MTBE)**	**1634-04-4**	MHV859	88.17	ppm	N	3.60	C5H12O2
1879	Methyl thiocyanate	556-64-9	MPT000	73.12	ppm	N	2.99	C2H3NS
1880	Methyl vinyl carbinol; (3-Buten-2-ol)	598-32-3	MQL250	72.12	ppm	N	2.95	C4H8O
1881	**Methyl vinyl ketone; (3-Buten-2-one)**	**78-94-4**	BOY500	70.10	ppm	Y	2.87	C4H6O

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1869	Methyl nitrate; (Nitric acid, methyl ester)	598-58-3	L	-83	65 expl			1.208 @ 20C	3	
1870	**Methyl nonafluorobutyl ether (40%) and Methyl nonafluoroisobutyl ether (60%) (ppm) (HFE-7100)**	**163702-07-6 163702-08-7**	G							
1871	Methyl parathion	298-00-0	S	35-36	158 @ 2 mm			1.358	3	
1872	Methyl phencapton	3735-23-7	L		400	3.5E-06	25		3	
1873	Methyl phosphonic dichloride	676-97-1	S	32	162				3	
1874	Methyl phosphonothioic dichloride	676-98-2	L	-25.6	177-178			1.35-1.42	2	
1875	Methyl pyridine, 3-; (3-Picoline)	108-99-6	L		143-144			0.9613	3	13000
1876	Methyl salicylate	119-36-8	L	-8.6	223.3	1	54	1.184	3	
1877	Methyl sulfoxide-d6; (Dimethyl-d6-sulfoxide)	2206-27-1	L	18	55 @ 5 mmHg			1.19		
1878	**Methyl tert-butyl ether; (MTBE)**	**1634-04-4**	L	-110	54			0.741	3	16000
1879	Methyl thiocyanate	556-64-9	L	-51	130-133			1.068	3	
1880	Methyl vinyl carbinol; (3-Buten-2-ol)	598-32-3	L	<-80	97			0.831 @ 20C	1	
1881	**Methyl vinyl ketone; (3-Buten-2-one)**	**78-94-4**	L		81.4			0.839325	3	21000

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1869	Methyl nitrate; (Nitric acid, methyl ester)	598-58-3					NA
1870	**Methyl nonafluorobutyl ether (40%) and Methyl nonafluoroisobutyl ether (60%) (ppm) (HFE-7100)**	**163702-07-6 163702-08-7**		07/19/08	08/15/07	GOEV, EPA.	NA
1871	Methyl parathion	298-00-0	11/15/96				NA
1872	Methyl phencapton	3735-23-7					NA
1873	Methyl phosphonic dichloride	676-97-1	03/01/00				
1874	Methyl phosphonothioic dichloride	676-98-2					NA
1875	Methyl pyridine, 3-; (3-Picoline)	108-99-6	01/04/99				3
1876	Methyl salicylate	119-36-8	01/04/99				2
1877	Methyl sulfoxide-d6; (Dimethyl-d6-sulfoxide)	2206-27-1					NA
1878	**Methyl tert-butyl ether; (MTBE)**	**1634-04-4**	09/30/97	07/18/08	12/20/07	GOEV, EPA	NA
1879	Methyl thiocyanate	556-64-9	03/01/00				NA
1880	Methyl vinyl carbinol; (3-Buten-2-ol)	598-32-3					NA
1881	**Methyl vinyl ketone; (3-Buten-2-one)**	**78-94-4**	08/07/98		06/27/08	EPA.	4

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1882	Methyl-1-butene, 2-	563-46-2	MHT000	70.14	ppm	Y	2.87	C5H10
1883	Methyl-1H-benzotriazole	29385-43-1	MHK000	133.17	mg/m3	N	5.44	C7H7N3
1884	Methyl-1-phenyl-2-pyrazolin-5-one, 3-	89-25-8	NNT000	174.22	mg/m3	Y	7.12	C10H10N2O
1885	Methyl-1-propanethiol, 1-; (sec-Butyl mercaptan; 2-Butanethiol)	513-53-1	N.I.S.	90.19	ppm	N	3.69	C4.H10.S
1886	Methyl-1-propen-1-one, 2-; (Dimethylketene)	598-26-5	DSL289	70.09	ppm	Y	2.86	(CH3)2C=C=O
1887	Methyl-2-(1-methylethyl)phenol, 5-; (Thymol)	89-83-8	TFX810	150.24	mg/m3	N	6.14	C10.H14.O
1888	Methyl-2-butene, 2-	513-35-9	N.I.S.	70.13	ppm	N	2.87	C5.H10
1889	Methyl-2-chloroacrylate	80-63-7	MIF800	120.54	ppm	Y	4.93	C4H5ClO2
1890	Methyl-2-heptanone, 6-	928-68-7	N.I.S.	128.21	ppm	N	5.24	C8.H16.O
1891	Methyl-2-hexanone, 5-; (Methyl isoamyl ketone)	110-12-3	MKW450	114.21	ppm	N	4.67	C7H14O
1892	Methyl-3-penten-2-one, 4-; (Mesityl oxide)	141-79-7	MDJ750	98.16	ppm	Y	4.01	C6H10O
1893	Methyl-4-penten-2-one, 4-	3744-02-3	Used MDJ750	98.14	ppm	Y	4.01	C6H10O
1894	Methyl-5-nitroaniline, 2-; (5-Nitro-o-toluidine; Benzenamine, 2-methyl-5-nitro-)	99-55-8	NMP500	152.17	mg/m3	N	6.22	C7H8N2O2
1895	Methyl-5-vinylpyridine, 2-	140-76-1	MQM500	119.18	mg/m3	N	4.87	C8H9N

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1882	Methyl-1-butene, 2-	563-46-2	L	-137.5	31.04	610	20	0.06504 @ 20C	3	14000
1883	Methyl-1H-benzotriazole	29385-43-1							2	
1884	Methyl-1-phenyl-2-pyrazolin-5-one, 3-	89-25-8	Pwdr	128.9	191				2	
1885	Methyl-1-propanethiol, 1-; (sec-Butyl mercaptan; 2-Butanethiol)	513-53-1	L	-165	84-85	80.71	25	0.8299 @ 17C	2	
1886	Methyl-1-propen-1-one, 2-; (Dimethylketene)	598-26-5	L	-97.5	34				3	
1887	Methyl-2-(1-methylethyl)phenol, 5-; (Thymol)	89-83-8	S	51	233	1	64	0.972	3	
1888	Methyl-2-butene, 2-	513-35-9	L	-133.72	38.56	468	25	0.6623 @ 20C	2	16000
1889	Methyl-2-chloroacrylate	80-63-7	L		140	12	25	1.189 @ 20C	2	
1890	Methyl-2-heptanone, 6-	928-68-7	L		167			0.8151 @ 20C		
1891	Methyl-2-hexanone, 5-; (Methyl isoamyl ketone)	110-12-3	L	-73.9	144			0.8132	3	10000
1892	Methyl-3-penten-2-one, 4-; (Mesityl oxide)	141-79-7	L	-59	130	10	26	0.8539	3	14000
1893	Methyl-4-penten-2-one, 4-	3744-02-3	L	-72.6	124.2			0.8411	3	13750
1894	Methyl-5-nitroaniline, 2-; (5-Nitro-o-toluidine; Benzenamine, 2-methyl-5-nitro-)	99-55-8	S	107		0.000013	20		3	
1895	Methyl-5-vinylpyridine, 2-	140-76-1	L		181	1.7	25	0.98 @ 20C	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1882	Methyl-1-butene, 2-	563-46-2					1
1883	Methyl-1H-benzotriazole	29385-43-1	11/15/96				NA
1884	Methyl-1-phenyl-2-pyrazolin-5-one, 3-	89-25-8	01/04/99				NA
1885	Methyl-1-propanethiol, 1-; (sec-Butyl mercaptan; 2-Butanethiol)	513-53-1			06/04/07	HSDB, NFPA	2
1886	Methyl-1-propen-1-one, 2-; (Dimethylketene)	598-26-5	03/01/00				NA
1887	Methyl-2-(1-methylethyl)phenol, 5-; (Thymol)	89-83-8					NA
1888	Methyl-2-butene, 2-	513-35-9			04/20/07		1
1889	Methyl-2-chloroacrylate	80-63-7					NA
1890	Methyl-2-heptanone, 6-	928-68-7					NA
1891	Methyl-2-hexanone, 5-; (Methyl isoamyl ketone)	110-12-3	01/04/99				1
1892	Methyl-3-penten-2-one, 4-; (Mesityl oxide)	141-79-7	01/04/99				3
1893	Methyl-4-penten-2-one, 4-	3744-02-3	03/01/00				NA
1894	Methyl-5-nitroaniline, 2-; (5-Nitro-o-toluidine; Benzenamine, 2-methyl-5-nitro-)	99-55-8		02/27/08	12/06/07	GOEV, RTECS, SAX.	NA
1895	Methyl-5-vinylpyridine, 2-	140-76-1					NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1896	Methyl-8-quinolinol, 2-	826-81-3	HMQ600	159.20	mg/m3	N	6.51	C10.H9.N.O.
1897	Methylal; (Dimethoxymethane)	109-87-5	MGA850	76.11	ppm	N	3.11	C3H8O2
1898	Methylamine hydrochloride	593-51-1	N.I.S.	67.53	mg/m3	N	2.76	C.H5.N..Cl.H
1899	Methylamino)ethanol, 2-(	109-83-1	MGG000	75.11	ppm	Y	3.07	C3.H9.N.O
1900	Methylaniline, N-	100-61-8	MGN750	107.17	ppm	N	4.38	C7H9N
1901	Methylaziridine, 1-	1072-44-2	N.I.S.	57.11	ppm	N	2.33	C3-H7-N
1902	Methylbutanamide, 3-; (Isovaleramide)	541-46-8	N.I.S.	101.15	mg/m3	N	4.13	C5H11NO
1903	Methylbutylamine, N-	110-68-9	MHV000	87.19	ppm	Y	3.56	C5.H13.N
1904	Methylcellulose	9004-67-5	MIF760		mg/m3	N		[Unspecified]
1905	Methylchlorodisilane; (Chloromethyldisilane)	68937-17-7	N.I.S.	110.75	ppm	Y	4.53	CH7ClSi2
1906	Methylcholanthrene 3-	56-49-5	MIJ750	268.37	mg/m3	N	10.97	C21H16
1907	Methylcyclohexane	108-87-2	MIQ740	98.21	ppm	N	4.01	C7H14
1908	Methylcyclohexanone	1331-22-2	MIR250	112.19	ppm	Y	4.59	C7H12O
1909	Methylcyclohexanone, 2-; (o-Methylcyclohexanone)	583-60-8	MIR500	112.19	ppm	Y	4.59	C7H12O

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1896	Methyl-8-quinolinol, 2-	826-81-3	S	73.8	267				D	
1897	Methylal; (Dimethoxymethane)	109-87-5	L	-104.8	42.3	330	20	0.864	3	16000
1898	Methylamine hydrochloride	593-51-1	S	232-234	227 @ 15C					
1899	Methylamino)ethanol, 2-(	109-83-1	L	-4.5	156	0.7	20	0.937 @ 20C	3	
1900	Methylaniline, N-	100-61-8	L	-57	194-197			0.989	3	
1901	Methylaziridine, 1-	1072-44-2	L		27.5			0.7572 @ 19C		
1902	Methylbutanamide, 3-; (Isovaleramide)	541-46-8	S	137	226					
1903	Methylbutylamine, N-	110-68-9	L	-75	91			0.7335	3	
1904	Methylcellulose	9004-67-5	S fibr						3	
1905	Methylchlorodisilane; (Chloromethyldisilane)	68937-17-7								
1906	Methylcholanthrene 3-	56-49-5	S	180				1.28	3	
1907	Methylcyclohexane	108-87-2	L	-126.4	100.3	40	22	0.7864	3	11000
1908	Methylcyclohexanone	1331-22-2	L	-14	160-170			0.925	3	
1909	Methylcyclohexanone, 2-; (o-Methylcyclohexanone)	583-60-8	L	-14	165.1			0.92	3	12000

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1896	Methyl-8-quinolinol, 2-	826-81-3					NA
1897	Methylal; (Dimethoxymethane)	109-87-5	09/30/97				1
1898	Methylamine hydrochloride	593-51-1					NA
1899	Methylamino)ethanol, 2-(	109-83-1					3
1900	Methylaniline, N-	100-61-8	01/04/99				NA
1901	Methylaziridine, 1-	1072-44-2					NA
1902	Methylbutanamide, 3-; (Isovaleramide)	541-46-8	03/01/00				NA
1903	Methylbutylamine, N-	110-68-9			04/20/07		3
1904	Methylcellulose	9004-67-5	11/15/96				NA
1905	Methylchlorodisilane; (Chloromethyldisilane)	68937-17-7					NA
1906	Methylcholanthrene 3-	56-49-5	08/21/96				NA
1907	Methylcyclohexane	108-87-2	01/04/99				1
1908	Methylcyclohexanone	1331-22-2	01/04/99				NA
1909	Methylcyclohexanone, 2-; (o-Methylcyclohexanone)	583-60-8					2

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1910	Methylcyclopentane	96-37-7	MIU500	84.18	ppm	Y	3.44	C6.H12
1911	Methyldecane, 4-	2847-72-5	N.I.S. etc.	156.31	ppm	N	6.39	C11.H24
1912	**Methyldichloroarsine; (Dichloromethylarsine)**	**593-89-5**	DFP200	160.86	mg/m3	Y	6.57	C.H3.As.Cl2
1913	Methylene bis(2-chloroaniline), 4,4'-; (MBOCA)	101-14-4	MJM200	267.17	ppm	N	10.92	C13H12Cl2N2
1914	Methylene bis(4-isocyanatocyclohexane), 1,1'-	5124-30-1	MJM600	262.39	ppm	Y	10.72	C15H22NO2
1915	**Methylene chloride; (Dichloromethane)**	**75-09-2**	MJP450	84.93	ppm	Y	3.47	CH2Cl2
1916	**Methylene diphenyl diisocyanate; (Diphenylmethane diisocyanate; MDI)**	**101-68-8**	MJP400	250.27	mg/m3	Y	10.23	C15H10N2O2
1917	Methylene fluoride; (Difluoromethane; HFC-32)	75-10-5	MJQ300	52.03	ppm	N	2.13	C.H2.F2
1918	Methylenebis(isocyanato-benzene), 1,1'-; (Diphenyl methane diisocyanate)	26447-40-5	N.I.S.		mg/m3	N		C15.H10.N2.O
1919	Methylenebisacrylamide, N,N'-	110-26-9	MJL500	154.19	mg/m3	N	6.30	C7.H10.N2.O2
1920	Methylenedianiline, 4,4'-	101-77-9	MJQ000	198.29	ppm	N	8.10	C13H14N2
1921	Methylethyl hydroperoxide, 1-; (Isopropyl hydroperoxide)	3031-75-2	IPI000	76.09	mg/m3	Y	3.11	(CH3)2 CHOOH
1922	Methylformamide, N-	123-39-7	MKG500	59.08	ppm	Y	2.41	C2.H5.N.O
1923	Methylfuran, 2-	534-22-5	MKH000	82.11	ppm	Y	3.36	C5-H6-O

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1910	Methylcyclopentane	96-37-7	L	−142.5	71.8	100	17.9	0.750 @ 20C	3	10000
1911	Methyldecane, 4-	2847-72-5	L	-77.5	187			1.4352 @ 20C		
1912	**Methyldichloroarsine; (Dichloromethylarsine)**	**593-89-5**	L	-59	90 @ 200 mm	10	24.3	1.84 @ 20C	3	
1913	Methylene bis(2-chloroaniline), 4,4'-; (MBOCA)	101-14-4	S						3	
1914	Methylene bis(4-isocyanatocyclohexane), 1,1'-	5124-30-1	L						3	
1915	**Methylene chloride; (Dichloromethane)**	**75-09-2**	L	-95	40	350	20	1.326	3	120000
1916	**Methylene diphenyl diisocyanate; (Diphenylmethane diisocyanate; MDI)**	**101-68-8**	S	37	194-9	0.001	40	1.44	3	
1917	Methylene fluoride; (Difluoromethane; HFC-32)	75-10-5	L						1	
1918	Methylenebis(isocyanato-benzene), 1,1'-; (Diphenyl methane diisocyanate)	26447-40-5								
1919	Methylenebisacrylamide, N,N'-	110-26-9	S	185	dec			1.235 @ 30C	3	8000
1920	Methylenedianiline, 4,4'-	101-77-9	S	93	398	0			3	
1921	Methylethyl hydroperoxide, 1-; (Isopropyl hydroperoxide)	3031-75-2	S		107-109				3	
1922	Methylformamide, N-	123-39-7	L	-5.4	180-185	0.253	25	0.9961	2	18000
1923	Methylfuran, 2-	534-22-5	L	-88.7	63.7	139	20	0.827 @ 20C	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1910	Methylcyclopentane	96-37-7					1
1911	Methyldecane, 4-	2847-72-5					NA
1912	**Methyldichloroarsine; (Dichloromethylarsine)**	**593-89-5**	12/28/07	07/18/08	12/31/07	EPA, SAX, RTECS	
1913	Methylene bis(2-chloroaniline), 4,4'-; (MBOCA)	101-14-4	08/21/96				NA
1914	Methylene bis(4-isocyanatocyclohexane), 1,1'-	5124-30-1					NA
1915	**Methylene chloride; (Dichloromethane)**	**75-09-2**	08/21/96	04/03/08	08/15/07	GOEV, EPA.	2
1916	**Methylene diphenyl diisocyanate; (Diphenylmethane diisocyanate; MDI)**	**101-68-8**	08/21/96		08/15/07	GOEV, AIHA.	3
1917	Methylene fluoride; (Difluoromethane; HFC-32)	75-10-5			08/30/07	RTECS.	NA
1918	Methylenebis(isocyanato-benzene), 1,1'-; (Diphenyl methane diisocyanate)	26447-40-5			04/20/07		NA
1919	Methylenebisacrylamide, N,N'-	110-26-9					NA
1920	Methylenedianiline, 4,4'-	101-77-9	07/09/97				2
1921	Methylethyl hydroperoxide, 1-; (Isopropyl hydroperoxide)	3031-75-2	03/01/00				NA
1922	Methylformamide, N-	123-39-7			04/20/07		NA
1923	Methylfuran, 2-	534-22-5					4

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1924	Methylheptane, 2-	592-27-8	N.I.S. etc.	114.23	ppm	N	4.67	C8.H18
1925	Methylheptane, 4-	589-53-7	N.I.S. etc.	114.23	ppm	N	4.67	C8H18
1926	Methylhydrosiloxane (3-4%) + dimethylsiloxane (96-97%) copolymer	68037-59-2	N.I.S.		mg/m3	N		
1927	Methylimidazole, 1-	616-47-7	MKT500	82.12	mg/m3	N	3.36	C4.H6.N2
1928	Methylimidazole, 4-	822-36-6	MKU000	82.12	mg/m3	N	3.36	C4.H6.N2
1929	Methyllactic acid ethyl ester, 2-; (Ethyl 2-hydroxyisobutyrate)	80-55-7	ELH700	132.18	mg/m3	N	5.40	C6H12O3
1930	**Methyllactonitrile 2-; (Acetone cyanohydrin)**	**75-86-5**	MLC750	85.12	ppm	Y	3.48	C4H7NO
1931	Methylmagnesium bromide, 3.0 m in diethyl ether	75-16-1	MLE000	119.26	ppm	N	4.87	C.H3.BrMg
1932	Methylmagnesium chlordie	676-58-4	N.I.S.	74.79	mg/m3	Y	3.06	C.H3.Cl.Mg
1933	Methylmercuric dicyanamide	502-39-6	MLF250	298.72	mg/m3	Y	12.21	C3H6HgN4
1934	Methylmorpholine, 4-	109-02-4	MMA250	101.17	ppm	Y	4.13	C5.H11.N.O
1935	Methylnaphthalene, 1-	90-12-0	MMB750	142.21	mg/m3	Y	5.81	C11H10
1936	Methylnaphthalene, 2-	91-57-6	MMC000	142.21	mg/m3	Y	5.81	C11H10
1937	Methylnitrosopiperidine, 3-; (Piperidine, 3-methyl-1-nitroso-)	13603-07-1	MMY750	128.00	ppm	N	5.23	C6-H12-N2-O

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1924	Methylheptane, 2-	592-27-8	L	-109	118			0.608	2	9800
1925	Methylheptane, 4-	589-53-7	L	-121	117.7			0.7046 @ 20C		10000
1926	Methylhydrosiloxane (3-4%) + dimethylsiloxane (96-97%) copolymer	68037-59-2								
1927	Methylimidazole, 1-	616-47-7	L	-6	196			1.0325	3	
1928	Methylimidazole, 4-	822-36-6	S	56	263				3	
1929	Methyllactic acid ethyl ester, 2-; (Ethyl 2-hydroxyisobutyrate)	80-55-7	L						2	
1930	**Methyllactonitrile 2-; (Acetone cyanohydrin)**	**75-86-5**	L	-20	82 @ 23mm			0.932	3	22000
1931	Methylmagnesium bromide, 3.0 m in diethyl ether	75-16-1	L						3	
1932	Methylmagnesium chlordie	676-58-4	S					1.02	3	23000
1933	Methylmercuric dicyanamide	502-39-6	S	156		0.00003	25		3	
1934	Methylmorpholine, 4-	109-02-4	L	-64.4	115			0.9	3	22000
1935	Methylnaphthalene, 1-	90-12-0	L	-22	241	0.067	25	1.025	2	
1936	Methylnaphthalene, 2-	91-57-6	S	37-38	241.1			0.99	2	8000
1937	Methylnitrosopiperidine, 3-; (Piperidine, 3-methyl-1-nitroso-)	13603-07-1							2	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1924	Methylheptane, 2-	592-27-8			05/17/07	Estimated,	1
1925	Methylheptane, 4-	589-53-7					NA
1926	Methylhydrosiloxane (3-4%) + dimethylsiloxane (96-97%) copolymer	68037-59-2			04/20/07		NA
1927	Methylimidazole, 1-	616-47-7			06/04/07	RTECS	NA
1928	Methylimidazole, 4-	822-36-6	06/04/07		06/04/07	RTECS	NA
1929	Methyllactic acid ethyl ester, 2-; (Ethyl 2-hydroxyisobutyrate)	80-55-7					NA
1930	**Methyllactonitrile 2-; (Acetone cyanohydrin)**	**75-86-5**	08/21/96	02/04/08	08/15/07	GOEV, EPA.	4
1931	Methylmagnesium bromide, 3.0 m in diethyl ether	75-16-1			04/20/07		NA
1932	Methylmagnesium chlordie	676-58-4			04/20/07		NA
1933	Methylmercuric dicyanamide	502-39-6					NA
1934	Methylmorpholine, 4-	109-02-4					3
1935	Methylnaphthalene, 1-	90-12-0	01/04/99	02/27/08	02/27/08	GOEV, RTECS	1
1936	Methylnaphthalene, 2-	91-57-6	09/30/97		12/06/07	GOEV, RTECS	NA
1937	Methylnitrosopiperidine, 3-; (Piperidine, 3-methyl-1-nitroso-)	13603-07-1					NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1938	Methylnonane, 4-	17301-94-9	N.I.S. etc.	142.28	ppm	N	5.82	C10.H22
1939	Methylpentane, 2-; (Isohexane)	107-83-5	IKS600	86.20	ppm	Y	3.52	C6H14
1940	Methylpentane, 3-	96-14-0	MNI500	86.18	ppm	Y	3.52	C6.H14
1941	Methylpentanol-1, 2-; (Amyl methyl alcohol)	105-30-6	AOK750	102.20	ppm	Y	4.18	C6.H14.O
1942	Methylphenol, 2-; (o-Cresol)	95-48-7	CNX000	108.15	ppm	Y	4.42	C7H8O
1943	Methylphenol, 3-; (m-Cresol)	108-39-4	CNW750	108.15	ppm	Y	4.42	C7H8O
1944	Methylphenol, 4-; (p-Cresol)	106-44-5	CNX250	108.15	ppm	Y	4.42	C7H8O
1945	Methylphenylthiourea, 2-; (o-Tolyl thiourea)	614-78-8	THF250	166.26	mg/m3	N	6.80	C8H10N2S
1946	Methylphosphonate	993-13-5	N.I.S.	96.02	mg/m3	Y	3.92	C.H5.O3.P
1947	Methylphosphonothioic acid, S-(2-(dimethylamino)ethyl) O-ethyl ester	20820-80-8	EIF500	211.29	ppm	N	8.64	C7.H18.N.O2.P.S
1948	Methylphosphonothioic acid-O-(4-nitrophenyl)-O-phenyl ester	2665-30-7	MOB699	309.29	mg/m3	N	12.64	C13H12NO4PS
1949	Methylphosphonothioic acid-O-ethyl O-(4-(methylthio)phenyl) ester	2703-13-1	MOB599	262.34	mg/m3	N	10.72	C10H15O2PS2
1950	Methylpropane, 2-; (Isobutane)	75-28-5	MOR750	58.14	ppm	N	2.38	C4H10
1951	Methylpropene, 2-; (Isobutene)	115-11-7	IIC000	56.12	ppm	N	2.29	C4H8

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1938	Methylnonane, 4-	17301-94-9	L	-99	165.7			0.7323 @ 20C		
1939	Methylpentane, 2-; (Isohexane)	107-83-5	L	-154	60.3			0.669	3	10000
1940	Methylpentane, 3-	96-14-0	L	-118	63.3	190	25	0.69576	3	12000
1941	Methylpentanol-1, 2-; (Amyl methyl alcohol)	105-30-6	L		130			0.804	2	11000
1942	Methylphenol, 2-; (o-Cresol)	95-48-7	S	30	191	1	38.2	1.05 @ 20C/4C	3	14000
1943	Methylphenol, 3-; (m-Cresol)	108-39-4	L	10.9	202.8	1	52	1.04 @ 22C/4C	3	10600
1944	Methylphenol, 4-; (p-Cresol)	106-44-5	S	35.5	201.8	1	53	1.0341 @ 20C/4C	3	10600
1945	Methylphenylthiourea, 2-; (o-Tolyl thiourea)	614-78-8	S	151-152		0.000002	25		3	
1946	Methylphosphonate	993-13-5	S	108.5	dec.					
1947	Methylphosphonothioic acid, S-(2-(dimethylamino)ethyl) O-ethyl ester	20820-80-8	L						3	
1948	Methylphosphonothioic acid-O-(4-nitrophenyl)-O-phenyl ester	2665-30-7	L		400	0.00001	25		3	
1949	Methylphosphonothioic acid-O-ethyl O-(4-(methylthio)phenyl) ester	2703-13-1	L		298	0.0001	25		3	
1950	Methylpropane, 2-; (Isobutane)	75-28-5	G	-145	-10.2			0.5572	3	16000
1951	Methylpropene, 2-; (Isobutene)	115-11-7	L or G	-140.3	-6.9			0.6	3	18000

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1938	Methylnonane, 4-	17301-94-9					NA
1939	Methylpentane, 2-; (Isohexane)	107-83-5	08/07/98		11/21/07	GOEV, RTECS.	1
1940	Methylpentane, 3-	96-14-0			04/20/07		1
1941	Methylpentanol-1, 2-; (Amyl methyl alcohol)	105-30-6			04/20/07		2
1942	Methylphenol, 2-; (o-Cresol)	95-48-7	03/01/00				3
1943	Methylphenol, 3-; (m-Cresol)	108-39-4	03/01/00				3
1944	Methylphenol, 4-; (p-Cresol)	106-44-5	03/01/00				3
1945	Methylphenylthiourea, 2-; (o-Tolyl thiourea)	614-78-8					NA
1946	Methylphosphonate	993-13-5					NA
1947	Methylphosphonothioic acid, S-(2-(dimethylamino)ethyl) O-ethyl ester	20820-80-8					NA
1948	Methylphosphonothioic acid-O-(4-nitrophenyl)-O-phenyl ester	2665-30-7					NA
1949	Methylphosphonothioic acid-O-ethyl O-(4-(methylthio)phenyl) ester	2703-13-1					NA
1950	Methylpropane, 2-; (Isobutane)	75-28-5	09/30/97	02/27/08	02/27/08	ACGIH, RTECS.	0
1951	Methylpropene, 2-; (Isobutene)	115-11-7	01/04/99	05/19/08	05/19/08	GOEV, RTECS	2

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1952	Methylpropylnitrosoamine; (N-Methyl-N-nitroso-1-propanamine)	924-46-9	MNA000	102.16	ppm	Y	4.18	C4-H2-N2-O
1953	Methylpyridine, 2-; (2-Picoline)	109-06-8	MOY000	93.14	ppm	Y	3.81	N-CHCH-CHCH-CCH3
1954	Methylpyrrole, N-	96-54-8	MPB000	81.12	mg/m3	Y	3.32	C5.H7.N
1955	Methylpyrrolidine; (Methylpyrrolidine, 1-)	120-94-5	MPB250	85.15	mg/m3	Y	3.48	C5-H11-N
1956	Methylstyrene, alpha-	98-83-9	MPK250	118.19	ppm	Y	4.83	C9.H10
1957	Methyltetrahydrofuran, 2-	96-47-9	MPO500	86.15	ppm	Y	3.52	C5.H10.O
1958	Methyltriacetoxysilane	4253-34-3	MQB500	220.28	mg/m3	N	9.00	C7H12O6Si
1959	**Methyltrichlorosilane; (Trichloromethyl silane)**	**75-79-6**	MQC500	149.48	ppm	Y	6.11	CH3Cl3Si
1960	Methyltriethoxysilane	2031-67-6	MQD750	178.34	ppm	Y	7.29	C7.H18.O3.Si
1961	Methyl-trifluoromethanesulfonate	333-27-7	N.I.S.	164.11	mg/m3	N	6.71	C2.H3.F3.O3.S
1962	Methyltrimethoxysilane	1185-55-3	MQF500	136.25	mg/m3	Y	5.57	C4.H12.O3.Si
1963	Methyltrioctylammonium chloride	5137-55-3	MQH000	404.25	mg/m3	N	16.52	C25H54N.Cl
1964	**Methylvinyldichlorosilane; (Dichloromethylvinylsilane)**	**124-70-9**	DFS800	141.08	ppm	N	5.77	C3.H6.Cl2.Si
1965	Methylvinylsiloxane-dimethylsiloxane copolymer, vinyl terminated	68083-18-1	N.I.S.		mg/m3	N		

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1952	Methylpropylnitrosoamine; (N-Methyl-N-nitroso-1-propanamine)	924-46-9	L		91 @ 40 mm				3	
1953	Methylpyridine, 2-; (2-Picoline)	109-06-8	L	-70	129	11.2	25	0.950 @ 15C	3	14000
1954	Methylpyrrole, N-	96-54-8	L	-56.32	112.81	15	20.2	0.9145 @ 15C	3	10000
1955	Methylpyrrolidine; (Methylpyrrolidine, 1-)	120-94-5	L	-90	80.5			0.8054	3	
1956	Methylstyrene, alpha-	98-83-9	L	-24.0	167-170			0.913 @ 17C	3	9000
1957	Methyltetrahydrofuran, 2-	96-47-9	L		80			0.853 @ 20C	3	
1958	Methyltriacetoxysilane	4253-34-3	S	40.5				1.17	2	
1959	**Methyltrichlorosilane; (Trichloromethyl silane)**	**75-79-6**	L		66.4	280	25	1.27	3	76000
1960	Methyltriethoxysilane	2031-67-6	L		144.5			0.895 @ 20C	1	
1961	Methyl-trifluoromethanesulfonate	333-27-7	?		100-102			1.45		
1962	Methyltrimethoxysilane	1185-55-3	L		103.5			0.949 @ 20C	1	
1963	Methyltrioctylammonium chloride	5137-55-3							3	
1964	**Methylvinyldichlorosilane; (Dichloromethylvinylsilane)**	**124-70-9**	L		92			1.08 @ 20C	3	
1965	Methylvinylsiloxane-dimethylsiloxane copolymer, vinyl terminated	68083-18-1								

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1952	Methylpropylnitrosoamine; (N-Methyl-N-nitroso-1-propanamine)	924-46-9					NA
1953	Methylpyridine, 2-; (2-Picoline)	109-06-8			04/20/07		3
1954	Methylpyrrole, N-	96-54-8			04/20/07		2
1955	Methylpyrrolidine; (Methylpyrrolidine, 1-)	120-94-5			05/18/07	RTECS	2
1956	Methylstyrene, alpha-	98-83-9					NA
1957	Methyltetrahydrofuran, 2-	96-47-9					1
1958	Methyltriacetoxysilane	4253-34-3	09/30/97				NA
1959	**Methyltrichlorosilane; (Trichloromethyl silane)**	**75-79-6**	08/21/96	02/04/08	08/15/07	EPA.	4
1960	Methyltriethoxysilane	2031-67-6					NA
1961	Methyl-trifluoromethanesulfonate	333-27-7					NA
1962	Methyltrimethoxysilane	1185-55-3					NA
1963	Methyltrioctylammonium chloride	5137-55-3	08/07/98				NA
1964	**Methylvinyldichlorosilane; (Dichloromethylvinylsilane)**	**124-70-9**	07/02/08	07/18/08	07/18/08	EPA, SAX.	
1965	Methylvinylsiloxane-dimethylsiloxane copolymer, vinyl terminated	68083-18-1					NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1966	Metolcarb; (Methylcarbamic acid m-tolyl ester)	1129-41-5	MIB750	165.21	mg/m3	N	6.75	C9H11NO2
1967	Mevinphos; (Phosdrin)	7786-34-7	MQR750	224.17	mg/m3	Y	9.16	C7H13O6P
1968	Mexacarbate; (4-(Dimethylamine)-3,5-xylyl N-methylcarbamate)	315-18-4	DOS000	222.32	mg/m3	N	9.09	C12H18N2O2
1969	Mica; (mica silicates)	12001-26-2	MQS250	398.30	mg/m3	N	16.28	[Unspecified]
1970	Michler's ketone; (4,4'-bis(dimethylamino)benzophenone)	90-94-8	MQS500	268.39	mg/m3	N	10.97	C17H20N2O
1971	Mineral fibers, fine	z-0032	N.I.S. etc.		mg/m3	N		[Unspecified]
1972	Mineral oil, heavy or light; (Paraffin oil; Deobase, deodorized)	8020-83-5	DAP900		mg/m3	Y		
1973	Mineral oil, petroleum distillates, heavy naphthenic	64741-53-3	MQV780		mg/m3	N		
1974	Mineral oil, petroleum distillates, solvent-refined (mild) heavy paraffinic	64741-88-4	MQV850		mg/m3	N		
1975	Mineral oil, petrolleum distillates, solvent refined light naphthenic	64741-97-5	MQV852		mg/m3	N		
1976	Mineral oil, white	8042-47-5	MQV875		mg/m3	N		[Unspecified]
1977	Mineral oil; (Oil mist, mineral)	8012-95-1	MQV750		mg/m3	Y		[Unspecified]
1978	Mirex; (Perchloropentacyclodecane)	2385-85-5	MQW500	545.50	mg/m3	N	22.30	C10Cl12
1979	Mitomycin C	50-07-7	AHK500	334.37	mg/m3	N	13.67	C15-H18-N4-O5

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1966	Metolcarb; (Methylcarbamic acid m-tolyl ester)	1129-41-5	S	76-77	360	0.00001	25		3	
1967	Mevinphos; (Phosdrin)	7786-34-7	S	6.7	280	2.9	25		3	
1968	Mexacarbate; (4-(Dimethylamine)-3,5-xylyl N-methylcarbamate)	315-18-4	S	85		0.000002	25		3	
1969	Mica; (mica silicates)	12001-26-2	S	1387				2.6-3.2	2	
1970	Michler's ketone; (4,4'-bis(dimethylamino)benzophenone)	90-94-8	S	179	>360 decom				3	
1971	Mineral fibers, fine	z-0032	S							
1972	Mineral oil, heavy or light; (Paraffin oil; Deobase, deodorized)	8020-83-5	L		174-274			0.862	1	
1973	Mineral oil, petroleum distillates, heavy naphthenic	64741-53-3	L						3	
1974	Mineral oil, petroleum distillates, solvent-refined (mild) heavy paraffinic	64741-88-4	L		383			0.88	2	
1975	Mineral oil, petrolleum distillates, solvent refined light naphthenic	64741-97-5	L						3	
1976	Mineral oil, white	8042-47-5	L						1	
1977	Mineral oil; (Oil mist, mineral)	8012-95-1	L					0.83-0.905	2	
1978	Mirex; (Perchloropentacyclodecane)	2385-85-5	S		485 dec				3	
1979	Mitomycin C	50-07-7	S	>360	534	0.00001	25		3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1966	Metolcarb; (Methylcarbamic acid m-tolyl ester)	1129-41-5					NA
1967	Mevinphos; (Phosdrin)	7786-34-7		02/27/08	02/27/08	GOEV.	NA
1968	Mexacarbate; (4-(Dimethylamine)-3,5-xylyl N-methylcarbamate)	315-18-4					NA
1969	Mica; (mica silicates)	12001-26-2	09/30/97	02/27/08		GOEV. RTECS.	NA
1970	Michler's ketone; (4,4'-bis(dimethylamino)benzophenone)	90-94-8					2
1971	Mineral fibers, fine	z-0032	09/30/97				
1972	Mineral oil, heavy or light; (Paraffin oil; Deobase, deodorized)	8020-83-5					NA
1973	Mineral oil, petroleum distillates, heavy naphthenic	64741-53-3					NA
1974	Mineral oil, petroleum distillates, solvent-refined (mild) heavy paraffinic	64741-88-4					NA
1975	Mineral oil, petrolleum distillates, solvent refined light naphthenic	64741-97-5					NA
1976	Mineral oil, white	8042-47-5	07/09/97				NA
1977	Mineral oil; (Oil mist, mineral)	8012-95-1	01/04/99				0
1978	Mirex; (Perchloropentacyclodecane)	2385-85-5	09/30/97				NA
1979	Mitomycin C	50-07-7					NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1980	Molecular sieve 13X	63231-69-6	N.I.S. etc.		mg/m3	Y		Na86[AlO2)86(SiO2)106] · xH2O
1981	Molybdate orange	12656-85-8	MRC000		mg/m3	N		[Unspecified]
1982	Molybdenum	7439-98-7	MRC250	95.94	mg/m3	N	3.92	Mo
1983	Molybdenum carbide	12011-97-1	N.I.S.	107.95	mg/m3	N	4.41	Mo.C
1984	Molybdenum dioxide	18868-43-4	MRD250	127.94	mg/m3	N	5.23	MoO2
1985	Molybdenum disilicide	12136-78-6	N.I.S.	152.11	mg/m3	N	6.22	Mo.Si2
1986	Molybdenum hexacarbonyl	13939-06-5	HCB500	264.00	mg/m3	N	10.79	Mo.(CO)6
1987	Molybdenum pentachloride	10241-05-1	MRD500	273.19	mg/m3	N	11.17	Mo.Cl5
1988	Molybdenum trioxide	1313-27-5	MRE000	143.94	mg/m3	Y	5.88	MoO3
1989	Molybdenum(IV) sulfide	1317-33-5	MRD750	160.07	mg/m3	N	6.54	Mo.S2
1990	Molybdic acid	7782-91-4	MRC750	161.95	mg/m3	N	6.62	H2-Mo-O4
1991	Molybdic acid, ammonium salt; (Ammonium molibdate)	11098-84-3	N.I.S.	224.28	mg/m3	N	9.17	
1992	Molybdic acid, disodium salt; (Disodium molybdate)	7631-95-0	DXE800	205.92	mg/m3	N	8.42	MoO4·2Na
1993	Molybdic acid, hexaammonium salt; (Ammonium heptamolybdate)	12027-67-7	ANH600	1163.89	mg/m3	N	47.57	Mo7.O24-6(NH4)

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1980	Molecular sieve 13X	63231-69-6	S						2	
1981	Molybdate orange	12656-85-8	S						3	
1982	Molybdenum	7439-98-7	S	2626	5560	1	3102	10.2	3	
1983	Molybdenum carbide	12011-97-1	S	2692				8.2		
1984	Molybdenum dioxide	18868-43-4	S ins						3	
1985	Molybdenum disilicide	12136-78-6	S	~1900	2030			6.2		
1986	Molybdenum hexacarbonyl	13939-06-5	S						3	
1987	Molybdenum pentachloride	10241-05-1	S hygr	194	268			2.93	3	
1988	Molybdenum trioxide	1313-27-5	S	795	1155			4.696	3	
1989	Molybdenum(IV) sulfide	1317-33-5	S	1185				4.80 @ 14C	3	
1990	Molybdic acid	7782-91-4	V						3	
1991	Molybdic acid, ammonium salt; (Ammonium molibdate)	11098-84-3	S						3	
1992	Molybdic acid, disodium salt; (Disodium molybdate)	7631-95-0	S	686					3	
1993	Molybdic acid, hexaammonium salt; (Ammonium heptamolybdate)	12027-67-7	S	90	dec			2.498	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1980	Molecular sieve 13X	63231-69-6					NA
1981	Molybdate orange	12656-85-8	01/04/99				NA
1982	Molybdenum	7439-98-7	09/30/97		08/24/07	GOEV, NIOSH.	NA
1983	Molybdenum carbide	12011-97-1					NA
1984	Molybdenum dioxide	18868-43-4					NA
1985	Molybdenum disilicide	12136-78-6					NA
1986	Molybdenum hexacarbonyl	13939-06-5					NA
1987	Molybdenum pentachloride	10241-05-1					NA
1988	Molybdenum trioxide	1313-27-5	01/04/99				NA
1989	Molybdenum(IV) sulfide	1317-33-5					NA
1990	Molybdic acid	7782-91-4					NA
1991	Molybdic acid, ammonium salt; (Ammonium molibdate)	11098-84-3			05/17/07	GOEV 2007, NIOSH.	NA
1992	Molybdic acid, disodium salt; (Disodium molybdate)	7631-95-0	01/04/99				NA
1993	Molybdic acid, hexaammonium salt; (Ammonium heptamolybdate)	12027-67-7	01/04/99				NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
1994	Molybdophosphoric acid	12026-57-2	N.I.S.	1825.25	mg/m3	N	74.60	Mo12.O40.P..3H
1995	Molybdophosphoric acid hydrate; (Phosphomolybdic acid hydrate)	51429-74-4	N.I.S. etc.	2786.88	mg/m3	N	113.90	6H.Mo18.O62.P2
1996	Monobutyl phosphite	16456-56-7	MRF500	138.12	mg/m3	N	5.65	C4H11O3P
1997	Monochloroamine; (Chloramide)	10599-90-3	CDO750	51.48	ppm	N	2.10	Cl.H2.N
1998	Monochloropentafluoroethane; (CFC-115)	76-15-3	CJI500	154.47	ppm	N	6.31	C2ClF5
1999	Monocrotophos	6923-22-4	MRH209	223.19	mg/m3	N	9.12	C7H14NO5P
2000	**Monomethylamine; (Methylamine)**	**74-89-5**	MGC250	31.07	ppm	Y	1.27	CH3.NH2
2001	**Monomethylhydrazine; (Methyl hydrazine)**	**60-34-4**	MKN000	46.09	ppm	Y	1.88	CH3.NH.NH2
2002	Monosodium titanate	60704-88-3	TGG500	102.87	mg/m3	N	4.20	NaTiO2
2003	Montmorillonite	1318-93-0	N.I.S. etc.		mg/m3	N		
2004	Morpholine	110-91-8	MRP750	87.14	ppm	Y	3.56	C4H9NO
2005	Morpholinepropanesulfonic acid, 4-	1132-61-2	N.I.S.	209.29	mg/m3	N	8.55	C7.H15.N.O4.S
2006	Morpholino)ethanesulfonic acid monohydrate, 2-(N-	4432-31-9	MRT150	195.26	mg/m3	N	7.98	C6.H13.N.O4.S
2007	Muscimol; (5-Aminomethyl-3-isoxyzole)	2763-96-4	AKT750	114.12	mg/m3	N	4.66	C4H6N2O2

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
1994	Molybdophosphoric acid	12026-57-2	S							
1995	Molybdophosphoric acid hydrate; (Phosphomolybdic acid hydrate)	51429-74-4	S	104				1.62		
1996	Monobutyl phosphite	16456-56-7	L						2	
1997	Monochloroamine; (Chloramide)	10599-90-3	L	-66					2	
1998	Monochloropentafluoroethane; (CFC-115)	76-15-3	G	-106	-37.7			1.5678 @ -42C	1	
1999	Monocrotophos	6923-22-4	S	54-55	125	0.000007	25	1.22 @ 20C	3	
2000	**Monomethylamine; (Methylamine)**	**74-89-5**	G	-93.3	-6.1	>760		0.662	3	43000
2001	**Monomethylhydrazine; (Methyl hydrazine)**	**60-34-4**	L	-52.2	87.8	38	20	0.874	3	25000
2002	Monosodium titanate	60704-88-3	S							
2003	Montmorillonite	1318-93-0	S clay							
2004	Morpholine	110-91-8	L	-4.9	128.9	10	23	1.007	3	14000
2005	Morpholinepropanesulfonic acid, 4-	1132-61-2	S		277-280					
2006	Morpholino)ethanesulfonic acid monohydrate, 2-(N-	4432-31-9	S	243					1	
2007	Muscimol; (5-Aminomethyl-3-isoxyzole)	2763-96-4	S	174-176		0.00001	25		3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
1994	Molybdophosphoric acid	12026-57-2					NA
1995	Molybdophosphoric acid hydrate; (Phosphomolybdic acid hydrate)	51429-74-4					NA
1996	Monobutyl phosphite	16456-56-7	01/04/99				NA
1997	Monochloroamine; (Chloramide)	10599-90-3	06/13/02	05/19/08	05/19/08	RTECS	NA
1998	Monochloropentafluoroethane; (CFC-115)	76-15-3					NA
1999	Monocrotophos	6923-22-4					NA
2000	**Monomethylamine; (Methylamine)**	**74-89-5**	10/31/92		06/27/08	GOEV, EPA.	3
2001	**Monomethylhydrazine; (Methyl hydrazine)**	**60-34-4**	10/31/92	02/04/08	08/15/07	GOEV, EPA.	4
2002	Monosodium titanate	60704-88-3	08/21/96				NA
2003	Montmorillonite	1318-93-0					NA
2004	Morpholine	110-91-8	01/04/99				3
2005	Morpholinepropanesulfonic acid, 4-	1132-61-2					NA
2006	Morpholino)ethanesulfonic acid monohydrate, 2-(N-	4432-31-9					NA
2007	Muscimol; (5-Aminomethyl-3-isoxyzole)	2763-96-4					NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2008	Mustard gas sulfoxide; (bis(2-chloroethyl)sulfoxide)	5819-08-9	N.I.S.	175.08	mg/m3	N	7.16	C4.H8.C12.O.S
2009	Myoglobins	9008-45-1	N.I.S. etc.		mg/m3	N		
2010	Myristic acid, butyl ester; (Tetradecanoic acid, butyl ester)	110-36-1	MSA300	284.54	ppm	Y	11.63	C18-H36-O2
2011	Myristic acid, isopropyl ester; (Tetradecanoic acid, isopropyl; Isopropyl myristate)	110-27-0	IQN000	270.46	mg/m3	Y	11.05	C17-H34-O2
2012	Nabumetone; (Relafen; 4-(6-methoxy-2-naphthyl)-2-butanone)	42924-53-8	MFA300	228.31	mg/m3	N	9.33	C15H16O2
2013	Nadic methyl anhydride	25134-21-8	NAC000	178.20	mg/m3	Y	7.28	C10.H10.O3
2014	Naphtha (coal tar); (Naphtha [petroleum] light aliphatic; Aliphatic naphtha)	8030-30-6	NAH600	100.00	ppm	Y	4.09	C5-C9 hydrocarbons
2015	Naphtha (petroleum), heavy catalytic cracked	64741-54-4	NAQ520		mg/m3	Y		C6 to C12 hydrocarbons
2016	Naphtha (petroleum), light straight-run	64741-46-4	NAQ560	100.00	ppm	Y	4.09	C4 to C10 hydrocarbons
2017	Naphtha, heavy aliphatic solvent	64742-96-7	N.I.S.		mg/m3	Y		C11 to C16 range
2018	Naphtha, hydrotreated heavy; (Isopar L-rev 2)	64742-48-9	N.I.S.	171.27	ppm	N	7.00	C11-C14 (98%), C8 (< 0.2%)
2019	Naphthalenamine, 1-; (1-Naphthylamine)	134-32-7	NBE700	143.20	mg/m3	N	5.85	C10H8
2020	Naphthalene	91-20-3	NAJ500	128.18	ppm	Y	5.24	C10H9N
2021	Naphthaleneacetamide, 1-	86-86-2	NAK000	185.24	mg/m3	N	7.57	C12H11NO

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2008	Mustard gas sulfoxide; (bis(2-chloroethyl)sulfoxide)	5819-08-9								
2009	Myoglobins	9008-45-1	S							
2010	Myristic acid, butyl ester; (Tetradecanoic acid, butyl ester)	110-36-1							1	4230
2011	Myristic acid, isopropyl ester; (Tetradecanoic acid, isopropyl; Isopropyl myristate)	110-27-0	L	~3	192.6 @ 20 mm	9.35E-05	25	0.8532 @ 20C	1	
2012	Nabumetone; (Relafen; 4-(6-methoxy-2-naphthyl)-2-butanone)	42924-53-8	S	80					2	
2013	Nadic methyl anhydride	25134-21-8	L	18	143 @ 10 mm			1.232	3	
2014	Naphtha (coal tar); (Naphtha [petroleum] light aliphatic; Aliphatic naphtha)	8030-30-6	S		~150 - variable	< 5		0.89 - variable	3	10000
2015	Naphtha (petroleum), heavy catalytic cracked	64741-54-4	L		149-216			0.862-0.892	1	
2016	Naphtha (petroleum), light straight-run	64741-46-4	G		-20 to 180				3	10000
2017	Naphtha, heavy aliphatic solvent	64742-96-7	L		190-290				3	
2018	Naphtha, hydrotreated heavy; (Isopar L-rev 2)	64742-48-9	L	-71	65 --> 230	0.49	68	0.77 @ 60C	1	6000
2019	Naphthalenamine, 1-; (1-Naphthylamine)	134-32-7	S	80	217.8	0.08	20	1.162	3	
2020	Naphthalene	91-20-3	S	80.1	217.9	1	52.6	1.162	3	9000
2021	Naphthaleneacetamide, 1-	86-86-2	S		181subl				2	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2008	Mustard gas sulfoxide; (bis(2-chloroethyl)sulfoxide)	5819-08-9			04/20/07		NA
2009	Myoglobins	9008-45-1					NA
2010	Myristic acid, butyl ester; (Tetradecanoic acid, butyl ester)	110-36-1					NA
2011	Myristic acid, isopropyl ester; (Tetradecanoic acid, isopropyl; Isopropyl myristate)	110-27-0					NA
2012	Nabumetone; (Relafen; 4-(6-methoxy-2-naphthyl)-2-butanone)	42924-53-8	08/21/96				NA
2013	Nadic methyl anhydride	25134-21-8					NA
2014	Naphtha (coal tar); (Naphtha [petroleum] light aliphatic; Aliphatic naphtha)	8030-30-6	09/30/97	03/07/08	03/07/08	GOEV, RTECS, NIOSH.	1
2015	Naphtha (petroleum), heavy catalytic cracked	64741-54-4	01/04/99	03/07/08	03/07/08	RTECS, SAX.	NA
2016	Naphtha (petroleum), light straight-run	64741-46-4	07/24/07	03/07/08	07/24/07	GOEV, NIOSH, ChemFinder	NA
2017	Naphtha, heavy aliphatic solvent	64742-96-7		03/07/08	03/07/08	TSCA, SAX.	NA
2018	Naphtha, hydrotreated heavy; (Isopar L-rev 2)	64742-48-9	03/01/00	03/07/08	03/07/08	TSCA, MSDS.	NA
2019	Naphthalenamine, 1-; (1-Naphthylamine)	134-32-7	08/21/96				2
2020	Naphthalene	91-20-3	08/21/96	02/27/08	02/27/08	GOEV, SAX, RTECS.	2
2021	Naphthaleneacetamide, 1-	86-86-2	08/07/98				NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2022	Naphthalenetrisulfonic acid sodium salt, 1,3,6-	19437-42-4	N.I.S.	452.31	mg/m3	N	18.49	C10.H7.Na3.O10.S3
2023	Naphthenic acid, lead salt	61790-14-5	NAS500	1578.52	mg/m3	N	64.52	C7H12O2.xPb
2024	Naphthol, 1-	90-15-3	NAW500	144.18	mg/m3	Y	5.89	C10.H8.O
2025	Naphthol, 2-	135-19-3	NAX000	144.18	mg/m3	Y	5.89	C10.H8.O
2026	Naphthol-8-sulfonic acid, sodium salt, 2-	832-85-9	N.I.S. etc.	224.23	mg/m3	N	9.16	C10.H6.O4.S
2027	Naphthoquinone, 1,4-	130-15-4	NBA500	158.16	mg/m3	N	6.46	C10-H6-O2
2028	Naphthylamine, beta-	91-59-8	NBE500	143.20	mg/m3	N	5.85	C10H6O2
2029	Naphthylthiourea, alpha-; (ANTU)	86-88-4	AQN635	202.29	mg/m3	N	8.27	C11H10N2S
2030	Neatsfoot oil; (Fats and glyceridic oils)	8002-64-0	N.I.S.		mg/m3	N		
2031	Neodecanoic acid	26896-20-8	NBW500	172.30	mg/m3	N	7.04	C10H20O2
2032	Neodymium	7440-00-8	NBX000	144.24	mg/m3	N	5.90	Nd
2033	Neodymium bromide	13536-80-6	N.I.S.	383.95	mg/m3	N	15.69	NdBr3
2034	Neodymium fluoride	13709-42-7	N.I.S.	201.24	mg/m3	N	8.22	Nd.F3
2035	Neodymium hydroxide	16469-17-3	N.I.S.	195.26	mg/m3	N	7.98	Nd(OH)3

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2022	Naphthalenetrisulfonic acid sodium salt, 1,3,6-	19437-42-4	S							
2023	Naphthenic acid, lead salt	61790-14-5	L	~0					3	
2024	Naphthol, 1-	90-15-3	S	96	282.5	1.7	100	1.0989 @ 99C	3	
2025	Naphthol, 2-	135-19-3	S	122	286	10	145.5	0.581 @ 0C	3	
2026	Naphthol-8-sulfonic acid, sodium salt, 2-	832-85-9								
2027	Naphthoquinone, 1,4-	130-15-4	S		125-126			1.422	3	
2028	Naphthylamine, beta-	91-59-8	S	125-126				1.422	3	
2029	Naphthylthiourea, alpha-; (ANTU)	86-88-4	S	198	400	0.000001	25		3	
2030	Neatsfoot oil; (Fats and glyceridic oils)	8002-64-0	L							
2031	Neodecanoic acid	26896-20-8	L						2	
2032	Neodymium	7440-00-8	S	~1024	3074			7.003	3	
2033	Neodymium bromide	13536-80-6	S	684	540? HC@P				3	
2034	Neodymium fluoride	13709-42-7	S	1377	2300			6.51		
2035	Neodymium hydroxide	16469-17-3	S							

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2022	Naphthalenetrisulfonic acid sodium salt, 1,3,6-	19437-42-4					NA
2023	Naphthenic acid, lead salt	61790-14-5	01/04/99				NA
2024	Naphthol, 1-	90-15-3					NA
2025	Naphthol, 2-	135-19-3					NA
2026	Naphthol-8-sulfonic acid, sodium salt, 2-	832-85-9					NA
2027	Naphthoquinone, 1,4-	130-15-4	08/21/96				NA
2028	Naphthylamine, beta-	91-59-8	09/30/97				NA
2029	Naphthylthiourea, alpha-; (ANTU)	86-88-4					NA
2030	Neatsfoot oil; (Fats and glyceridic oils)	8002-64-0			04/20/07		1
2031	Neodecanoic acid	26896-20-8	09/30/97				2
2032	Neodymium	7440-00-8			04/20/07		NA
2033	Neodymium bromide	13536-80-6	08/07/98				NA
2034	Neodymium fluoride	13709-42-7					NA
2035	Neodymium hydroxide	16469-17-3					NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2036	Neodymium nitrate	10045-95-1	NCB000	330.27	mg/m3	N	13.50	N3O9.Nd
2037	Neodymium nitrate, pentahydrate	14517-29-4	N.I.S.	438.35	mg/m3	N	17.92	Nd.(N.O3)3..6(H2.O)
2038	Neodymium nitrite	z-0033	N.I.S. etc.	282.23	mg/m3	N	11.54	Nd(NO2)3
2039	Neodymium(III) chloride	10024-93-8	NBY000	250.59	mg/m3	N	10.24	Cl3Nd
2040	Neodymium(III) oxide	1313-97-9	NCC000	336.48	mg/m3	N	13.75	Nd2-O3
2041	Neon	7440-01-9	NCG500	20.18	ppm	N	0.82	Ne
2042	Nickel	7440-02-0	NCW500	58.71	mg/m3	N	2.40	Ni
2043	Nickel acetate tetrahydrate	6018-89-9	NCX500	248.89	mg/m3	N	10.17	C4.H6.O-Ni-4(H2.O)
2044	Nickel aluminide	12003-78-0	N.I.S.	79.67	mg/m3	N	3.26	Ni.Al
2045	Nickel carbonate hydroxide; (Basic nickel carbonate tetrahydrate)	39430-27-8	NCY530	376.26	mg/m3	Y	15.38	C.H4.Ni3.O7..4H2O
2046	Nickel carbonate hydroxide; (Basic nickel(II) carbonate)	12607-70-4	NCY600	304.18	mg/m3	N	12.43	Ni3.C.H4.O7
2047	**Nickel carbonyl**	**13463-39-3**	NCZ000	170.75	ppm	N	6.98	Ni.(CO)4
2048	Nickel chloride; (Nickelous chloride)	7718-54-9	NDH000	129.61	mg/m3	N	5.30	Ni.Cl2
2049	Nickel cyanide	557-19-7	NDB500	110.75	mg/m3	N	4.53	Ni.C2N2

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2036	Neodymium nitrate	10045-95-1	S						3	
2037	Neodymium nitrate, pentahydrate	14517-29-4	S hygr							
2038	Neodymium nitrite	z-0033	S							
2039	Neodymium(III) chloride	10024-93-8	S	758	1600			4.13	3	
2040	Neodymium(III) oxide	1313-97-9	S	2233	3760			7.24	1	
2041	Neon	7440-01-9	G	-248.67	-245.9			1.204 @ BP	1	
2042	Nickel	7440-02-0	S	1455	2730	1	1810	8.9	3	
2043	Nickel acetate tetrahydrate	6018-89-9	S		16			1.798	3	
2044	Nickel aluminide	12003-78-0	S							
2045	Nickel carbonate hydroxide; (Basic nickel carbonate tetrahydrate)	39430-27-8	S						2	
2046	Nickel carbonate hydroxide; (Basic nickel(II) carbonate)	12607-70-4	S					2.6	3	
2047	**Nickel carbonyl**	**13463-39-3**	L	-25	43.3	315	20	1.3185 @ 17C	3	20000
2048	Nickel chloride; (Nickelous chloride)	7718-54-9	S deliq	1001 sealed	973 sublime			3.51	3	
2049	Nickel cyanide	557-19-7	S	>200				2.393	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2036	Neodymium nitrate	10045-95-1	09/30/97				NA
2037	Neodymium nitrate, pentahydrate	14517-29-4					NA
2038	Neodymium nitrite	z-0033					
2039	Neodymium(III) chloride	10024-93-8	07/09/97	03/24/08	03/24/08	RTECS, HC&P.	NA
2040	Neodymium(III) oxide	1313-97-9					NA
2041	Neon	7440-01-9					NA
2042	Nickel	7440-02-0	08/21/96				2
2043	Nickel acetate tetrahydrate	6018-89-9					NA
2044	Nickel aluminide	12003-78-0					NA
2045	Nickel carbonate hydroxide; (Basic nickel carbonate tetrahydrate)	39430-27-8					NA
2046	Nickel carbonate hydroxide; (Basic nickel(II) carbonate)	12607-70-4					NA
2047	**Nickel carbonyl**	**13463-39-3**	10/31/92	07/19/08	08/15/07	GOEV, EPA.	4
2048	Nickel chloride; (Nickelous chloride)	7718-54-9					NA
2049	Nickel cyanide	557-19-7					NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2050	Nickel fluoride	13940-83-5	N.I.S. etc.	168.75	mg/m3	N	6.90	F2.H8.Ni.O4
2051	Nickel formate	3349-06-2	NDB000	184.69	mg/m3	Y	7.55	(HCOO)2Ni.2H2O
2052	Nickel oxalate (liquids)	6018-94-6a	NDB000	146.71	mg/m3	N	6.00	NiC2O4
2053	Nickel oxalate (solids)	6018-94-6b	NDB000	146.71	mg/m3	N	6.00	NiC2O4
2054	Nickel oxide; (Nickel(II) oxide)	1313-99-1	NDF500	74.71	mg/m3	N	3.05	NiO
2055	Nickel perchlorate	13637-71-3	N.I.S. etc.	365.69	mg/m3	N	14.95	Ni.(Cl.O4)2-6(H2.O)
2056	Nickel sulfamate; (Nickel(II) sulfamate)	13770-89-3	NDK000	250.89	mg/m3	N	10.25	Ni.H4.N2.O6.S2
2057	Nickel sulfate hexahydrate; (Nickel(II) sulfate hexahydrate)	10101-97-0	NDL000	262.89	mg/m3	N	10.74	NiSO4.6H2O
2058	Nickel sulfate; (Nickel(II) sulfate)	7786-81-4	NDK500	154.77	mg/m3	Y	6.33	O4S.Ni
2059	Nickel(2+) stearate	2223-95-2	N.I.S.	625.64	mg/m3	N	25.57	C36.H70.Ni.O4
2060	Nickel(II) bromide	13462-88-9	N.I.S.	218.42	mg/m3	N	8.93	Ni.Br2
2061	Nickel(II) carbonate (1:1)	3333-67-3	NCY500	118.72	mg/m3	N	4.85	Ni.C.O3
2062	Nickel(II) chloride hexahydrate	7791-20-0	NDA000	237.73	mg/m3	N	9.72	Cl2Ni.6H2O
2063	Nickel(II) hydroxide; (Nickelous hydroxide)	12054-48-7	NDE000	92.73	mg/m3	N	3.79	Ni(OH)2

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2050	Nickel fluoride	13940-83-5	S							
2051	Nickel formate	3349-06-2	S					2.15		
2052	Nickel oxalate (liquids)	6018-94-6a	L							
2053	Nickel oxalate (solids)	6018-94-6b	S							
2054	Nickel oxide; (Nickel(II) oxide)	1313-99-1	S	1900				7.45	3	
2055	Nickel perchlorate	13637-71-3	S	140						
2056	Nickel sulfamate; (Nickel(II) sulfamate)	13770-89-3	L							
2057	Nickel sulfate hexahydrate; (Nickel(II) sulfate hexahydrate)	10101-97-0	S	103 loses water				2.031	3	
2058	Nickel sulfate; (Nickel(II) sulfate)	7786-81-4	S	840				3.68	3	
2059	Nickel(2+) stearate	2223-95-2	S							
2060	Nickel(II) bromide	13462-88-9	S hygr	963				5.1		
2061	Nickel(II) carbonate (1:1)	3333-67-3	S	dec				4.39	3	
2062	Nickel(II) chloride hexahydrate	7791-20-0	S deliq	subl	987	1	671	3.55	3	
2063	Nickel(II) hydroxide; (Nickelous hydroxide)	12054-48-7	S	230 dec				4.1	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2050	Nickel fluoride	13940-83-5					NA
2051	Nickel formate	3349-06-2	08/07/98				NA
2052	Nickel oxalate (liquids)	6018-94-6a					
2053	Nickel oxalate (solids)	6018-94-6b					
2054	Nickel oxide; (Nickel(II) oxide)	1313-99-1	08/21/96				NA
2055	Nickel perchlorate	13637-71-3					NA
2056	Nickel sulfamate; (Nickel(II) sulfamate)	13770-89-3					NA
2057	Nickel sulfate hexahydrate; (Nickel(II) sulfate hexahydrate)	10101-97-0	08/07/98				NA
2058	Nickel sulfate; (Nickel(II) sulfate)	7786-81-4	09/30/97				NA
2059	Nickel(2+) stearate	2223-95-2					NA
2060	Nickel(II) bromide	13462-88-9					NA
2061	Nickel(II) carbonate (1:1)	3333-67-3					NA
2062	Nickel(II) chloride hexahydrate	7791-20-0	08/07/98				NA
2063	Nickel(II) hydroxide; (Nickelous hydroxide)	12054-48-7	09/30/97				NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2064	Nickel(II) nitrate hexahydrate	13478-00-7	NDG500	290.85	mg/m3	N	11.89	N2O6Ni.6H2O
2065	Nickel(II) nitrate; (Nickelous nitrate)	13138-45-9	NDG000	182.73	mg/m3	Y	7.47	N2O6.Ni
2066	Nickel(II) nitrite	17861-62-0	NDG550	150.70	mg/m3	N	6.16	Ni.(NO2)2
2067	Nickel(II) phosphate	10381-36-9	NDB000	366.01	mg/m3	N	14.96	Ni3.(PO4)2
2068	Nickel(III) hydroxide; (Nickelic hydroxide)	12125-56-3	NDE010	109.74	mg/m3	N	4.49	Ni(OH)3
2069	Nicotinamide	98-92-0	NCR000	122.14	mg/m3	N	4.99	C6.H6.N2.O
2070	Nicotine sulfate	65-30-5	NDR500	418.56	mg/m3	N	17.11	C20H26N4.O4S
2071	Nicotine, dl-beta-; (DL-Nicotine)	22083-74-5	N.I.S.	417.48	mg/m3	N	17.06	C10-H14-N2
2072	Nicotine; (Pyridine, (S)-3-(1-methyl-2-pyrrolidinyl)-)	54-11-5	NDN000	162.26	mg/m3	N	6.63	C10H14N2
2073	Nicotinic acid; (Niacin)	59-67-6	NCQ900	123.12	mg/m3	N	5.03	C6.H5.N.O2
2074	Niobium	7440-03-1	NDZ000	92.10	mg/m3	Y	3.76	Nb
2075	Niobium chloride	10026-12-7	NEA000	270.16	mg/m3	N	11.04	Cl5Nb
2076	Niobium pentoxide; (Niobium(V) oxide)	1313-96-8	NEA050	265.82	mg/m3	N	10.86	Nb2.O5
2077	Niobium(IV) carbide	12069-94-2	N.I.S.	104.92	mg/m3	N	4.29	Nb.C

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2064	Nickel(II) nitrate hexahydrate	13478-00-7	L	56.7	136.7			2.05	2	
2065	Nickel(II) nitrate; (Nickelous nitrate)	13138-45-9	S deliq	56.7	136.7			2.05	3	
2066	Nickel(II) nitrite	17861-62-0	S						3	
2067	Nickel(II) phosphate	10381-36-9	S						3	
2068	Nickel(III) hydroxide; (Nickelic hydroxide)	12125-56-3	S	230 dec				4.15	3	
2069	Nicotinamide	98-92-0	S	129	157 @ 0.0005	0.00042	25	1.4	2	
2070	Nicotine sulfate	65-30-5	S			0.00001	25	1.15 @ 20C	3	
2071	Nicotine, dl-beta-; (DL-Nicotine)	22083-74-5	S	-79	247	0.038	25	1.0097 @ 20C		
2072	Nicotine; (Pyridine, (S)-3-(1-methyl-2-pyrrolidinyl)-)	54-11-5	L	-79	247.3	0.038/1	25/61.8	1.0092 @ 20C	3	7000
2073	Nicotinic acid; (Niacin)	59-67-6	S	236	subl.			1.473	3	
2074	Niobium	7440-03-1	S	2468	4742			8.57	2	
2075	Niobium chloride	10026-12-7	S	204.7-209.5	250			2.75	3	
2076	Niobium pentoxide; (Niobium(V) oxide)	1313-96-8	S	1512				4.6		
2077	Niobium(IV) carbide	12069-94-2	S	3500				7.7		

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2064	Nickel(II) nitrate hexahydrate	13478-00-7	09/30/97				NA
2065	Nickel(II) nitrate; (Nickelous nitrate)	13138-45-9	08/21/96				NA
2066	Nickel(II) nitrite	17861-62-0					NA
2067	Nickel(II) phosphate	10381-36-9					NA
2068	Nickel(III) hydroxide; (Nickelic hydroxide)	12125-56-3	09/30/97				NA
2069	Nicotinamide	98-92-0					NA
2070	Nicotine sulfate	65-30-5					NA
2071	Nicotine, dl-beta-; (DL-Nicotine)	22083-74-5					3
2072	Nicotine; (Pyridine, (S)-3-(1-methyl-2-pyrrolidinyl)-)	54-11-5					3
2073	Nicotinic acid; (Niacin)	59-67-6					NA
2074	Niobium	7440-03-1					NA
2075	Niobium chloride	10026-12-7	01/04/99				NA
2076	Niobium pentoxide; (Niobium(V) oxide)	1313-96-8	08/07/98				NA
2077	Niobium(IV) carbide	12069-94-2					NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2078	Nitrapyrin; (2-Chloro-6-(trichloromethyl)pyridine)	1929-82-4	CLP750	230.90	mg/m3	Y	9.44	C6H3Cl4N
2079	Nitrate(s)	14797-55-8	NED000		mg/m3	N		NO3 or (-NO2) groups
2080	**Nitric acid**	**7697-37-2**	NED500	63.02	ppm	Y	2.58	HNO3
2081	Nitric acid, butyl ester; (Butyl nitrate)	928-45-0	BRV325	119.12	ppm	N	4.87	C4.H9.N.O3
2082	Nitric acid, ethyl ester; (Ethyl nitrate)	625-58-1	ENM500	91.08	ppm	N	3.72	C2.H5.N.O3
2083	Nitric acid, pentyl ester; (Amyl nitrate)	1002-16-0	AOL250	133.17	ppm	N	5.44	C5.H11.N.O3
2084	**Nitric oxide**	**10102-43-9**	NEG100	30.01	ppm	Y	1.23	NO
2085	Nitrilotriacetic acid, disodium salt; (Disodium nitrilotriacetate)	15467-20-6	DXF000	235.12	mg/m3	N	9.61	C6.H7.N.O6•2Na
2086	Nitrilotriacetic acid, trisodium salt, monohydrate	18662-53-8	NEI000	275.10	mg/m3	N	11.24	C6.H6.N.O6..3Na..H2.0
2087	Nitrilotriacetic acid; (Aminotriacetic acid)	139-13-9	AMT500	191.16	mg/m3	N	7.81	C6H9NO6
2088	Nitrilotris tri-phosphonic acid; (Amino, tris[methylene phosphonic acid])	6419-19-8	NEI100	299.07	mg/m3	Y	12.22	C3.H12.N.O9.P3
2089	Nitroaniline, 2-; (o-Nitroaniline)	88-74-4	NEO000	138.13	mg/m3	N	5.65	C6H6N2O2
2090	Nitroaniline, 3-; (m-Nitroaniline)	99-09-2	NEN500	138.13	mg/m3	N	5.65	C6H6N2O2
2091	Nitroaniline, p-	100-01-6	NEO500	138.14	mg/m3	N	5.65	NO2C6H4 NH2

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2078	Nitrapyrin; (2-Chloro-6-(trichloromethyl)pyridine)	1929-82-4	S	62-63		0.003	22.5		3	
2079	Nitrate(s)	14797-55-8	S						2	
2080	**Nitric acid**	**7697-37-2**	L	-42.2	82.8	48/62	20/25	1.5027	3	
2081	Nitric acid, butyl ester; (Butyl nitrate)	928-45-0	L		136			1.0228 @ 30C	3	
2082	Nitric acid, ethyl ester; (Ethyl nitrate)	625-58-1	L	-112	87.7	64	25	1.004 @ 20C	3	41000
2083	Nitric acid, pentyl ester; (Amyl nitrate)	1002-16-0	L	-123	145			0.99	3	
2084	**Nitric oxide**	**10102-43-9**	G	-163.9	-151.7	>760		1.3402 gas	3	
2085	Nitrilotriacetic acid, disodium salt; (Disodium nitrilotriacetate)	15467-20-6	S	>300					3	
2086	Nitrilotriacetic acid, trisodium salt, monohydrate	18662-53-8	S	340				1.782	3	2000
2087	Nitrilotriacetic acid; (Aminotriacetic acid)	139-13-9	S	242	167 @ 13 mm				3	
2088	Nitrilotris tri-phosphonic acid; (Amino, tris[methylene phosphonic acid])	6419-19-8	L	-14	105			1.33 @ 20	2	
2089	Nitroaniline, 2-; (o-Nitroaniline)	88-74-4	S	72	284.5	0.00277	25	0.9015 @ 25C	3	15000
2090	Nitroaniline, 3-; (m-Nitroaniline)	99-09-2	S	114	306.4	3.62E-05	25	0.9011 @ 25C	3	
2091	Nitroaniline, p-	100-01-6	S	146.1	332.2	<<1	20	1.424	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2078	Nitrapyrin; (2-Chloro-6-(trichloromethyl)pyridine)	1929-82-4		02/27/08	02/27/08	GOEV, NIOSH, RTECS.	NA
2079	Nitrate(s)	14797-55-8	01/04/99				NA
2080	**Nitric acid**	**7697-37-2**	10/31/92	02/04/08	08/15/07	EPA.	4
2081	Nitric acid, butyl ester; (Butyl nitrate)	928-45-0					2
2082	Nitric acid, ethyl ester; (Ethyl nitrate)	625-58-1					2
2083	Nitric acid, pentyl ester; (Amyl nitrate)	1002-16-0					0
2084	**Nitric oxide**	**10102-43-9**	08/21/96	07/19/08	01/17/08	EPA	3
2085	Nitrilotriacetic acid, disodium salt; (Disodium nitrilotriacetate)	15467-20-6					NA
2086	Nitrilotriacetic acid, trisodium salt, monohydrate	18662-53-8					NA
2087	Nitrilotriacetic acid; (Aminotriacetic acid)	139-13-9	01/04/99				NA
2088	Nitrilotris tri-phosphonic acid; (Amino, tris[methylene phosphonic acid])	6419-19-8	10/24/07		10/24/07	GOEV, RTECS	
2089	Nitroaniline, 2-; (o-Nitroaniline)	88-74-4					NA
2090	Nitroaniline, 3-; (m-Nitroaniline)	99-09-2					NA
2091	Nitroaniline, p-	100-01-6	08/21/96				3

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2092	Nitrobenzene	98-95-3	NEX000	123.12	ppm	N	5.03	C6H5NO2
2093	Nitrobenzenesulfonic acid, sodium salt, 3-	127-68-4	NFC500	225.16	mg/m3	Y	9.20	C6.H4.N.O5..Na
2094	Nitrobiphenyl, 4-; (p-Nitrobiphenyl)	92-93-3	NFQ000	199.22	mg/m3	N	8.14	C12H9NO2
2095	Nitrochlorobenzene, m-; (1-Chloro-3-nitrobenzene; m-chloronitrobenzene)	121-73-3	CJB250	157.56	mg/m3	N	6.44	C6H4 ClNO2
2096	Nitrocyclohexane	1122-60-7	NFV500	129.18	mg/m3	N	5.28	C6H11NO2
2097	Nitrocyclohexene, 1-; (1-Nitrocyclohex-1-ene)	2562-37-0	N.I.S. etc.	127.10	ppm	N	5.19	[C6H9-NO2]
2098	Nitrodiphenylamine, 2-	119-75-5	see NFY000	214.24	mg/m3	Y	8.76	C12H10N2O2
2099	Nitroethane	79-24-3	NFY500	75.08	ppm	Y	3.07	C2H5NO2
2100	Nitrogen	7727-37-9	NGP500	28.02	ppm	N	1.15	N2
2101	**Nitrogen dioxide**	**10102-44-0**	NGR500	46.01	ppm	Y	1.88	NO2
2102	Nitrogen mustard hydrochloride	55-86-7	BIE500	192.53	mg/m3	N	7.87	C5H11Cl2N.ClH
2103	**Nitrogen mustard; (Bis(b-chloroethyl)methylamine)**	**51-75-2**	BIE250	156.07	mg/m3	Y	6.38	C5H11Cl2N C5H11Cl2N ClH
2104	Nitrogen tetroxide	10544-72-6	NGU500	92.02	ppm	Y	3.76	N2O4
2105	**Nitrogen trifluoride**	**7783-54-2**	NGW000	71.01	ppm	Y	2.90	F3.N

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2092	Nitrobenzene	98-95-3	L	5.6	210.6	0.139		1.205 @ 150C	3	18000
2093	Nitrobenzenesulfonic acid, sodium salt, 3-	127-68-4	S	350					1	
2094	Nitrobiphenyl, 4-; (p-Nitrobiphenyl)	92-93-3	S	113 - 114	223-224				3	
2095	Nitrochlorobenzene, m-; (1-Chloro-3-nitrobenzene; m-chloronitrobenzene)	121-73-3	S	46	236	0.097	25	1.534 @ 20C	3	
2096	Nitrocyclohexane	1122-60-7	L	-34	205.5	0.35	25	1.0610 @ 20C	3	
2097	Nitrocyclohexene, 1-; (1-Nitrocyclohex-1-ene)	2562-37-0								
2098	Nitrodiphenylamine, 2-	119-75-5	S	75.5				1.36	1	
2099	Nitroethane	79-24-3	L	-90	114	15.6	20	1.046	3	34000
2100	Nitrogen	7727-37-9	G	-210	-195.79			0.808 @-195.8C	1	
2101	**Nitrogen dioxide**	**10102-44-0**	G>21	-9.4	21.1	720	20	1.491@ 0C	3	
2102	Nitrogen mustard hydrochloride	55-86-7	S	119					3	
2103	**Nitrogen mustard; (Bis(b-chloroethyl)methylamine)**	**51-75-2**	L	1 @ 10mm	86–87 @11mm	0.17	25	1.09	3	34000
2104	Nitrogen tetroxide	10544-72-6	G	-11.2	21.15			1.493 @ 20C	3	
2105	**Nitrogen trifluoride**	**7783-54-2**	G	-208.5	-129			1.537 @ -129C	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2092	Nitrobenzene	98-95-3	08/21/96				3
2093	Nitrobenzenesulfonic acid, sodium salt, 3-	127-68-4					NA
2094	Nitrobiphenyl, 4-; (p-Nitrobiphenyl)	92-93-3	09/30/97				2
2095	Nitrochlorobenzene, m-; (1-Chloro-3-nitrobenzene; m-chloronitrobenzene)	121-73-3					2
2096	Nitrocyclohexane	1122-60-7					3
2097	Nitrocyclohexene, 1-; (1-Nitrocyclohex-1-ene)	2562-37-0					3
2098	Nitrodiphenylamine, 2-	119-75-5	03/01/00				NA
2099	Nitroethane	79-24-3	01/04/99				2
2100	Nitrogen	7727-37-9	04/15/07				3
2101	**Nitrogen dioxide**	**10102-44-0**	10/31/92	07/19/08	08/15/07	EPA.	3
2102	Nitrogen mustard hydrochloride	55-86-7	08/07/98				NA
2103	**Nitrogen mustard; (Bis(b-chloroethyl)methylamine)**	**51-75-2**	09/30/97	02/04/08	12/28/07	EPA	NA
2104	Nitrogen tetroxide	10544-72-6					3
2105	**Nitrogen trifluoride**	**7783-54-2**	08/07/98		08/15/07	GOEV, AIHA.	NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2106	Nitrogen trioxide; (Dinitrogen trioxide)	10544-73-7	N.I.S.	76.01	ppm	Y	3.11	N2O3
2107	Nitroglycerin	55-63-0	NGY000	227.11	mg/m3	Y	9.28	C3H5N3O9
2108	Nitromethane	75-52-5	NHM500	61.05	ppm	N	2.50	CH3NO2
2109	Nitromethane-d3; (Trideuteronitromethane)	13031-32-8	N.I.S., etc.	64.06	ppm	N	2.62	C.D3.N.O2
2110	Nitro-m-xylene, 2-; (1,3-Dimethyl-2-nitrobenzene)	81-20-9	NMS500	151.18	mg/m3	N	6.18	C8.H9.N.O2
2111	Nitronium Tetrafluoroborate	13826-86-3	NHS500	132.82	mg/m3	N	5.43	B.F4.N.O2
2112	Nitrophenol (mixed isomers)	25154-55-6	N.I.S.	139.12	mg/m3	Y	5.69	C6H5NO3
2113	Nitrophenol, 2-; (o-Nitrophenol)	88-75-5	NIF010	139.12	mg/m3	N	5.69	C6H5NO3
2114	Nitrophenol, 3-; (m-Nitrophenol)	554-84-7	NIE600	139.12	mg/m3	Y	5.69	C6H5NO3
2115	Nitrophenol, 4-; (p-Nitrophenol)	100-02-7	NIF000	139.12	mg/m3	N	5.69	C6H5NO3
2116	Nitropropane, 1-	108-03-2	NIX500	89.11	ppm	Y	3.64	C3H7NO2
2117	Nitropropane, 2-	79-46-9	NIY000	89.11	ppm	N	3.64	CH3CH(NO3) CH3
2118	Nitropyrene, 1-	5522-43-0	NJA000	247.26	mg/m3	N	10.11	C16H9NO2
2119	Nitropyridine-N-oxide, 4-; (Pyridine, 4-nitro, 1-oxide)	1124-33-0	NJA500	140.11	mg/m3	N	5.73	C5H4N2O3

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2106	Nitrogen trioxide; (Dinitrogen trioxide)	10544-73-7	G	-101.1	~ 3			1.4 @ 2 C		
2107	Nitroglycerin	55-63-0	L	13	218 expl	1	127m	1.599	3	
2108	Nitromethane	75-52-5	L	-29	101	27.8	20	1.1322	3	73000
2109	Nitromethane-d3; (Trideuteronitromethane)	13031-32-8	L		100			1.183		
2110	Nitro-m-xylene, 2-; (1,3-Dimethyl-2-nitrobenzene)	81-20-9	S	15	226			1.112 @ 15C	3	
2111	Nitronium Tetrafluoroborate	13826-86-3	S						3	
2112	Nitrophenol (mixed isomers)	25154-55-6	S							
2113	Nitrophenol, 2-; (o-Nitrophenol)	88-75-5	S	45	214.5	1	49.3	1.495	3	
2114	Nitrophenol, 3-; (m-Nitrophenol)	554-84-7	S	97	194 @ 70 mm	0.1	25	1.485 @ 20 C	3	
2115	Nitrophenol, 4-; (p-Nitrophenol)	100-02-7	S	113-114	279 dec	2.2	148	1.270 @ 20C	3	
2116	Nitropropane, 1-	108-03-2	L	-108	132	7.5	20	1.003	3	22000
2117	Nitropropane, 2-	79-46-9	L	-92.8	120.6	13	20	0.992	3	16000
2118	Nitropyrene, 1-	5522-43-0	S	151-152					3	
2119	Nitropyridine-N-oxide, 4-; (Pyridine, 4-nitro, 1-oxide)	1124-33-0	S	159-160					3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2106	Nitrogen trioxide; (Dinitrogen trioxide)	10544-73-7					3
2107	Nitroglycerin	55-63-0	09/30/97				2
2108	Nitromethane	75-52-5	01/04/99				2
2109	Nitromethane-d3; (Trideuteronitromethane)	13031-32-8					NA
2110	Nitro-m-xylene, 2-; (1,3-Dimethyl-2-nitrobenzene)	81-20-9					NA
2111	Nitronium Tetrafluoroborate	13826-86-3					NA
2112	Nitrophenol (mixed isomers)	25154-55-6					NA
2113	Nitrophenol, 2-; (o-Nitrophenol)	88-75-5					NA
2114	Nitrophenol, 3-; (m-Nitrophenol)	554-84-7					NA
2115	Nitrophenol, 4-; (p-Nitrophenol)	100-02-7	08/21/96				3
2116	Nitropropane, 1-	108-03-2	09/30/97				2
2117	Nitropropane, 2-	79-46-9	08/21/96				3
2118	Nitropyrene, 1-	5522-43-0					NA
2119	Nitropyridine-N-oxide, 4-; (Pyridine, 4-nitro, 1-oxide)	1124-33-0					NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2120	Nitrosodimethylamine	62-75-9	NKA600	74.10	mg/m3	N	3.03	C2H6N2O
2121	Nitrosodiphenylamine, p-	156-10-5	NKB500	198.24	mg/m3	Y	8.10	C12H10N2O
2122	Nitrosodipropylamine; (DPNA)	621-64-7	NKB700	130.22	mg/m3	N	5.32	C6H14N2O
2123	Nitrosomorpholine	59-89-2	NKZ000	116.14	mg/m3	N	4.75	C4H8N2O2
2124	Nitroso-N-methylurea, N-	684-93-5	MNA750	103.10	mg/m3	N	4.21	C2H5N3O2
2125	Nitrosophenol, p-	104-91-6	NLF200	123.12	mg/m3	N	5.03	C6H5NO2
2126	Nitrosotoluene, 2-: (o-Nitrosotoluene)	611-23-4	NLW500	121.15	mg/m3	N	4.95	C7.H7.N.O
2127	Nitrosyl chloride	2696-92-6	NMH000	65.46	ppm	Y	2.68	Cl.N.O
2128	Nitrosylsulfuric acid	7782-78-7	NMJ000	127.07	mg/m3	Y	5.19	H.N.O5.S
2129	Nitrotoluene, m-	99-08-1	NMO500	137.15	ppm	N	5.61	C7H7NO2
2130	Nitrotoluene, o-	88-72-2	NMO525	137.15	ppm	N	5.61	C7H7NO2
2131	Nitrotoluene, p-	99-99-0	NMO550	137.15	ppm	N	5.61	C7H7NO2
2132	Nitrous acid	7782-77-6	NMR000	47.02	mg/m3	Y	1.92	HNO2
2133	Nitrous oxide	10024-97-2	NGU000	44.02	ppm	N	1.80	N2.O

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2120	Nitrosodimethylamine	62-75-9	L		152			1.005	3	
2121	Nitrosodiphenylamine, p-	156-10-5	S	144-145					3	
2122	Nitrosodipropylamine; (DPNA)	621-64-7							3	
2123	Nitrosomorpholine	59-89-2	L?						3	
2124	Nitroso-N-methylurea, N-	684-93-5	S	124 dec					3	
2125	Nitrosophenol, p-	104-91-6	S	144 dec					3	
2126	Nitrosotoluene, 2-: (o-Nitrosotoluene)	611-23-4	S	72.5					2	
2127	Nitrosyl chloride	2696-92-6	G	-61.5	-6.4	>760		1.250 L @ 30C	3	
2128	Nitrosylsulfuric acid	7782-78-7	S	73.5 dec				3	3	
2129	Nitrotoluene, m-	99-08-1	L	16	231.9	0.27	25	1.1630 @ 15C	3	16000
2130	Nitrotoluene, o-	88-72-2	L	-10	222.3	1	50	1.1622 @ 19C/15C	3	21000
2131	Nitrotoluene, p-	99-99-0	S	53-54	238.3	1	53.7	1.286	3	16000
2132	Nitrous acid	7782-77-6	L						3	
2133	Nitrous oxide	10024-97-2	G	-90.8	-88.5	>760		1.977 gas	2	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2120	Nitrosodimethylamine	62-75-9	09/30/97				NA
2121	Nitrosodiphenylamine, p-	156-10-5					NA
2122	Nitrosodipropylamine; (DPNA)	621-64-7	01/04/99				NA
2123	Nitrosomorpholine	59-89-2	09/30/97				NA
2124	Nitroso-N-methylurea, N-	684-93-5	09/30/97				NA
2125	Nitrosophenol, p-	104-91-6	09/30/97				NA
2126	Nitrosotoluene, 2-: (o-Nitrosotoluene)	611-23-4	09/30/97				NA
2127	Nitrosyl chloride	2696-92-6	01/04/99				NA
2128	Nitrosylsulfuric acid	7782-78-7	04/15/07				NA
2129	Nitrotoluene, m-	99-08-1					3
2130	Nitrotoluene, o-	88-72-2		02/27/08	02/27/08	GOEV, RTECS, NIOSH.	3
2131	Nitrotoluene, p-	99-99-0	09/30/97				3
2132	Nitrous acid	7782-77-6			08/15/07	AIHA.	NA
2133	Nitrous oxide	10024-97-2	10/31/92				NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2134	Nonacosane	630-03-5	N.I.S.	408.79	mg/m3	N	16.71	C29.H60
2135	Nonanal	124-19-6	NMW500	142.27	mg/m3	Y	5.81	C9-H18-O
2136	Nonane; (Shellsol 140)	111-84-2	NMX000	128.29	ppm	N	5.24	C9H20
2137	Nonanenitrile; (1-Octyl cyanide)	2243-27-8	OES300	139.27	ppm	Y	5.69	C9-H17-N
2138	Nonanoic acid	112-05-0	NMY000	158.27	mg/m3	Y	6.47	C9.H18.O2
2139	Nonanone, 2-	821-55-6	NMY500	142.27	ppm	Y	5.81	C9-H18-O
2140	Nonene, 1-	124-11-8	N.I.S.	126.24	ppm	Y	5.16	C9.H18
2141	Nonoxynol-4	7311-27-5	N.I.S.	396.57	mg/m3	N	16.21	C23H40O5
2142	Nonyl alcohol	143-08-8	NNB500	144.29	mg/m3	N	5.90	C9.H20.O
2143	Nonyl phenol (mixed isomers)	25154-52-3	NNC500	220.39	mg/m3	Y	9.01	C9H19C6H4 OH
2144	Nonyl phenol, 4- (branched)	84852-15-3	NNC600	220.39	mg/m3	Y	9.01	C15-H24-O
2145	Nonyl phenol, p-	104-40-5	NNC510	220.39	mg/m3	Y	9.01	C15-H24-O
2146	Nonylphenol, 4-, branched, ethoxylated	127087-87-0	N.I.S.	396.63	mg/m3	N	16.21	C23-H40-O5
2147	Nonylphenoxypolyethoxyethanol	68412-54-4	N.I.S.		mg/m3	N		[Unspecified]

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2134	Nonacosane	630-03-5	S							
2135	Nonanal	124-19-6	L		190-192			0.820-0.830	2	
2136	Nonane; (Shellsol 140)	111-84-2	L	-53.7	150.7	10	38	0.718	3	7000
2137	Nonanenitrile; (1-Octyl cyanide)	2243-27-8	L	-34.2	224.4			0.8178 @ 20C	2	
2138	Nonanoic acid	112-05-0	L	12	254	0.00165	25	0.9055 @ 20C	3	
2139	Nonanone, 2-	821-55-6	L	-9	194			0.832 @ 30C	2	9000
2140	Nonene, 1-	124-11-8	L	-81.3	146.9	5.4	25	0.7433	1	8000
2141	Nonoxynol-4	7311-27-5	L							
2142	Nonyl alcohol	143-08-8	L	-5	213.5	0.0227	25	0.827 @ 20C	2	8000
2143	Nonyl phenol (mixed isomers)	25154-52-3	L	-10	293			0.949	2	10000
2144	Nonyl phenol, 4- (branched)	84852-15-3	L						2	
2145	Nonyl phenol, p-	104-40-5	L						2	
2146	Nonylphenol, 4-, branched, ethoxylated	127087-87-0	L							
2147	Nonylphenoxypolyethoxyethanol	68412-54-4	S						2	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2134	Nonacosane	630-03-5					NA
2135	Nonanal	124-19-6					NA
2136	Nonane; (Shellsol 140)	111-84-2	11/15/96				1
2137	Nonanenitrile; (1-Octyl cyanide)	2243-27-8					NA
2138	Nonanoic acid	112-05-0					NA
2139	Nonanone, 2-	821-55-6					0
2140	Nonene, 1-	124-11-8					1
2141	Nonoxynol-4	7311-27-5					NA
2142	Nonyl alcohol	143-08-8					2
2143	Nonyl phenol (mixed isomers)	25154-52-3	07/09/97				3
2144	Nonyl phenol, 4- (branched)	84852-15-3	07/09/97				NA
2145	Nonyl phenol, p-	104-40-5	07/09/97				NA
2146	Nonylphenol, 4-, branched, ethoxylated	127087-87-0	01/04/99				NA
2147	Nonylphenoxypolyethoxyethanol	68412-54-4	01/04/99				NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2148	**Nonyltrichlorosilane**	**5283-67-0**	NNE000	261.72	ppm	Y	10.70	C9.H19.Cl3.Si
2149	Norbormide	991-42-4	NNF000	511.61	mg/m3	N	20.91	C33H25N3O3
2150	Norchlorofluoroepibatidine	z-0034	N.I.S. etc.		mg/m3	Y		[Unknown]
2151	Octachlorodibenzodioxin, 1,2,3,4,6,7,8,9-; (OCDD, Octachlorodibenzo-p-dioxin)	3268-87-9	OAJ000	459.72	mg/m3	Y	18.79	C12.Cl8.O2
2152	Octachlorodibenzofuran, 1,2,3,4,6,7,8,9-	39001-02-0	N.I.S.	443.72	mg/m3	N	18.14	C12.Cl8.O
2153	Octachloronaphthalene	2234-13-1	OAP000	403.70	mg/m3	N	16.50	C10Cl8
2154	Octacosane	630-02-4	N.I.S.	394.77	ppm	Y	16.13	C28.H58
2155	Octadecane, n-	593-45-3	N.I.S.	254.50	ppm	Y	10.40	C18.H38
2156	Octadecanoic acid, n-; (Stearic acid)	57-11-4	SLK000	284.54	mg/m3	Y	11.63	C18H36O2
2157	Octadecanol, 1-	112-92-5	OAX000	270.56	ppm	N	11.06	C18-H38-O
2158	Octadecenoic acid, 9-; (Oleic acid)	112-80-1	OHU000	282.52	mg/m3	Y	11.55	C18.H34.O2
2159	Octadecyl methacrylate	32360-05-7	N.I.S.	338.57	mg/m3	N	13.84	C22.H42.O2
2160	**Octadecyltrichlorosilane**	**112-04-9**	OBI000	387.99	ppm	Y	15.86	C18.H37.Cl3.Si
2161	Octafluorocyclobutane; (Cyclooctafluorobutane; Freon C-318)	115-25-3	CPS000	200.03	ppm	N	8.18	C4F8

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2148	**Nonyltrichlorosilane**	**5283-67-0**	L					1.072	2	
2149	Norbormide	991-42-4	S	190-198					3	
2150	Norchlorofluoroepibatidine	z-0034	L?						3	
2151	Octachlorodibenzodioxin, 1,2,3,4,6,7,8,9-; (OCDD, Octachlorodibenzo-p-dioxin)	3268-87-9	S	330-332		8E-13	25		3	
2152	Octachlorodibenzofuran, 1,2,3,4,6,7,8,9-	39001-02-0	S						3	
2153	Octachloronaphthalene	2234-13-1	S	197.5-198	246-50 @.5mm			2.0	3	
2154	Octacosane	630-02-4	S	57-62	440	<1	20			
2155	Octadecane, n-	593-45-3	S	28.2	316.3			0.7768 @ 28C		
2156	Octadecanoic acid, n-; (Stearic acid)	57-11-4	S	69.3	383	1	173.7	0.847	3	
2157	Octadecanol, 1-	112-92-5	S	58	202	2.6E-06	25	0.8124 @ 59C	3	4000
2158	Octadecenoic acid, 9-; (Oleic acid)	112-80-1	L	16.3	286 @ 100 mm	1	176.5	0.895 @ 25C	3	
2159	Octadecyl methacrylate	32360-05-7	L	18-20	195 @ 6mm			0.864		
2160	**Octadecyltrichlorosilane**	**112-04-9**	L		160 @ 13	<5	20	0.984	2	
2161	Octafluorocyclobutane; (Cyclooctafluorobutane; Freon C-318)	115-25-3	G	-41.4	-6.04			1.513 @ -21C	1	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2148	**Nonyltrichlorosilane**	**5283-67-0**	07/02/08	07/18/08	07/02/08	EPA, HSDB.	
2149	Norbormide	991-42-4					NA
2150	Norchlorofluoroepibatidine	z-0034	07/09/97				
2151	Octachlorodibenzodioxin, 1,2,3,4,6,7,8,9-; (OCDD, Octachlorodibenzo-p-dioxin)	3268-87-9	03/01/00				NA
2152	Octachlorodibenzofuran, 1,2,3,4,6,7,8,9-	39001-02-0	03/01/00				NA
2153	Octachloronaphthalene	2234-13-1	09/30/97				NA
2154	Octacosane	630-02-4					NA
2155	Octadecane, n-	593-45-3					1
2156	Octadecanoic acid, n-; (Stearic acid)	57-11-4	09/30/97				1
2157	Octadecanol, 1-	112-92-5					0
2158	Octadecenoic acid, 9-; (Oleic acid)	112-80-1					1
2159	Octadecyl methacrylate	32360-05-7					NA
2160	**Octadecyltrichlorosilane**	**112-04-9**			06/27/08	EPA.	3
2161	Octafluorocyclobutane; (Cyclooctafluorobutane; Freon C-318)	115-25-3					NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2162	Octamethylcyclotetrasiloxane	556-67-2	OCE100	296.68	ppm	Y	12.13	C8-H24-O4-Si4
2163	Octamethyldiphosphoramide; (Octamethylpyrophosphoramide)	152-16-9	OCM000	286.30	mg/m3	N	11.70	C8H24N4O3P2
2164	Octanal, 1-; (Octanal; Octanaldehyde)	124-13-0	OCO000	128.24	mg/m3	Y	5.24	C8-H16-O
2165	Octanamine, 1-	111-86-4	OEK015	129.28	mg/m3	Y	5.28	C8.H19.N
2166	Octane, n-	111-65-9	OCU000	114.26	ppm	Y	4.67	CH3.(CH2)6.CH3
2167	Octanedione, 2,5-	3214-41-3	N.I.S. etc.	142.00	mg/m3	N	5.80	C8.H14.O2
2168	Octanenitrile	124-12-9	OCW100	125.24	ppm	Y	5.12	C8-H15-N
2169	Octanethiol, 1-	111-88-6	N.I.S.	146.21	ppm	Y	5.98	C8.H18.S
2170	Octanoic acid; (Caprylic acid)	124-07-2	OCY000	144.24	mg/m3	Y	5.90	C8.H16.O2
2171	Octanol, 2-	123-96-6	OCY090	130.26	mg/m3	N	5.32	C8.H18.O
2172	Octanone, 2-	111-13-7	ODG000	128.24	mg/m3	Y	5.24	C8-H16-O
2173	Octaphenylcyclotetrasiloxane	546-56-5	N.I.S.	793.24	mg/m3	N	32.42	C48.H40.O4.Si4
2174	**Octene, 1-**	**111-66-0**	N.I.S.	112.22	ppm	N	4.59	C8-H16
2175	Octyl alcohol; (n-octanol)	111-87-5	OEI000	130.28	mg/m3	Y	5.32	C8H18O

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2162	Octamethylcyclotetrasiloxane	556-67-2	L	17.5	175			0.9558	1	8000
2163	Octamethyldiphosphoramide; (Octamethylpyrophosphoramide)	152-16-9	L	20-21	154 @ 2 mm	0.001	25	1.09	3	
2164	Octanal, 1-; (Octanal; Octanaldehyde)	124-13-0	L	-23	163.4	1.18	25	0.821 @ 20C	3	
2165	Octanamine, 1-	111-86-4	L		185-187			0.779 @ 20C	3	
2166	Octane, n-	111-65-9	L		125.8	10	19.2	0.7036	3	8000
2167	Octanedione, 2,5-	3214-41-3	L						3	
2168	Octanenitrile	124-12-9	L	-45.6	205.2			0.8136 @ 20C	2	
2169	Octanethiol, 1-	111-88-6	L	-49.2	198.1	0.4245	25	0.8433 @ 20C	2	
2170	Octanoic acid; (Caprylic acid)	124-07-2	L	17	240			0.91 @ 20C	2	
2171	Octanol, 2-	123-96-6	L	-31.6	179.3	0.242	25	0.8193 @ 20C		
2172	Octanone, 2-	111-13-7	L	-16	172.5			0.820 @ 20C	3	
2173	Octaphenylcyclotetrasiloxane	546-56-5	S	200.5	330					
2174	**Octene, 1-**	**111-66-0**	L	-101.7	121.2	17.4	25	0.71	*1*	9000
2175	Octyl alcohol; (n-octanol)	111-87-5	L	-16.7	194.5			0.827	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2162	Octamethylcyclotetrasiloxane	556-67-2					NA
2163	Octamethyldiphosphoramide; (Octamethylpyrophosphoramide)	152-16-9					NA
2164	Octanal, 1-; (Octanal; Octanaldehyde)	124-13-0					NA
2165	Octanamine, 1-	111-86-4					3
2166	Octane, n-	111-65-9					1
2167	Octanedione, 2,5-	3214-41-3	03/01/00				NA
2168	Octanenitrile	124-12-9					NA
2169	Octanethiol, 1-	111-88-6					2
2170	Octanoic acid; (Caprylic acid)	124-07-2					NA
2171	Octanol, 2-	123-96-6			05/17/07	RTECS	1
2172	Octanone, 2-	111-13-7					1
2173	Octaphenylcyclotetrasiloxane	546-56-5					NA
2174	**Octene, 1-**	**111-66-0**	01/04/99		08/15/07	AIHA.	1
2175	Octyl alcohol; (n-octanol)	111-87-5	08/07/98	02/21/08			1

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2176	Octyl(phenyl)-N,N-diisobutylcarbamoylmethylphosphine oxide	83242-95-9	N.I.S. etc.	210.32	mg/m3	N	8.60	C16-H18
2177	**Octyltrichlorosilane**	**5283-66-9**	OGE000	246.69	ppm	Y	10.08	C8.H17.Cl3.Si
2178	Oil gas; (Oil fog)	z-0035	OGI350	11.90	ppm	N	0.49	SAX mixture
2179	**Oleum; (fuming sulfuric acid)**	**8014-95-7**	SOI520	178.14	mg/m3	Y	7.28	H2O4S.O3S
2180	Organorhodium complex	z-0036	N.I.S. etc.	300.00	mg/m3	N	12.26	[Unspecified]
2181	Orthoformic acid, trimethyl ester; (Trimethyl orthoformate)	149-73-5	TLX600	106.14	ppm	Y	4.34	C4.H10.O3
2182	Osmium	7440-04-2	OKE000	190.20	mg/m3	Y	7.77	Os
2183	**Osmium tetroxide**	**20816-12-0**	OKK000	254.20	ppm	Y	10.39	O4.Os
2184	**Otto Fuel (mainly Propylene glycol dinitrate 6423-43-4)**	**106602-80-6**	N.I.S.	170.00	ppm	Y	6.95	
2185	Ouabain	630-60-4	OKS000	584.73	mg/m3	N	23.90	C29H44O12
2186	Oxalic acid dihydrate	6153-56-6	N.I.S.	126.10	mg/m3	Y	5.15	(COOH)2.. 2H2O
2187	Oxalic acid, anhydrous; (Ethanedioic acid)	144-62-7	OLA000	90.04	mg/m3	Y	3.68	(COOH)2
2188	Oxalyl chlorine	79-37-8	OLI000	126.93	ppm	N	5.19	Cl.C.O..CO.Cl
2189	Oxamide	471-46-5	OLO000	88.08	mg/m3	Y	3.60	C2.H4.N2.O2

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2176	Octyl(phenyl)-N,N-diisobutylcarbamoylmethylphosphine oxide	83242-95-9								
2177	**Octyltrichlorosilane**	**5283-66-9**	L		232			1.07 @ 20C	2	
2178	Oil gas; (Oil fog)	z-0035	G						3	
2179	**Oleum; (fuming sulfuric acid)**	**8014-95-7**	L						3	
2180	Organorhodium complex	z-0036	S							
2181	Orthoformic acid, trimethyl ester; (Trimethyl orthoformate)	149-73-5	L	15	100.6			0,9676 @ 20C	3	
2182	Osmium	7440-04-2	S	3033	5012			22.59	3	
2183	**Osmium tetroxide**	**20816-12-0**	S	39.5	130 subl	10	26	4.906	3	
2184	**Otto Fuel (mainly Propylene glycol dinitrate 6423-43-4)**	**106602-80-6**								
2185	Ouabain	630-60-4	S	190					3	
2186	Oxalic acid dihydrate	6153-56-6	S	189.5	dec	0.54	105	1.653	3	
2187	Oxalic acid, anhydrous; (Ethanedioic acid)	144-62-7	S	187	dec	0.54	105	1.900	3	
2188	Oxalyl chlorine	79-37-8	L	-16	63.5			1.4785 @ 20C	3	
2189	Oxamide	471-46-5	S	350 dec	419 dec			1.667 @ 20C	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2176	Octyl(phenyl)-N,N-diisobutylcarbamoylmethylphosphine oxide	83242-95-9	08/07/98				NA
2177	**Octyltrichlorosilane**	**5283-66-9**	07/02/08	07/18/08	07/02/08	EPA, HSDB.	
2178	Oil gas; (Oil fog)	z-0035					
2179	**Oleum; (fuming sulfuric acid)**	**8014-95-7**	10/31/92	07/19/08	08/16/07	EPA.	NA
2180	Organorhodium complex	z-0036					
2181	Orthoformic acid, trimethyl ester; (Trimethyl orthoformate)	149-73-5					NA
2182	Osmium	7440-04-2	04/15/07				NA
2183	**Osmium tetroxide**	**20816-12-0**	09/30/97	07/19/08	07/02/08	GOEV, EPA.	NA
2184	**Otto Fuel (mainly Propylene glycol dinitrate 6423-43-4)**	**106602-80-6**		07/19/08	08/16/07	EPA	NA
2185	Ouabain	630-60-4					NA
2186	Oxalic acid dihydrate	6153-56-6	08/21/96	02/27/08	02/27/08	GOEV, HSDB, NIOSH.	NA
2187	Oxalic acid, anhydrous; (Ethanedioic acid)	144-62-7	08/21/96	02/27/08	02/27/08	GOEV, RTECS, NIOSH.	3
2188	Oxalyl chlorine	79-37-8					NA
2189	Oxamide	471-46-5					NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2190	Oxamyl	23135-22-0	DSP600	219.29	mg/m3	N	8.96	C7H13N3O3S
2191	Oxathiane, 1,4-	15980-15-1	OLY000	104.18	ppm	Y	4.26	C4H8OS
2192	Oxirane, ethenyl-; (3,4-Epoxy-1-butene)	930-22-3	EBJ500	70.10	ppm	N	2.87	C4-H6-O
2193	Oxone, monopersulfate compound	37222-66-5	N.I.S. etc.		mg/m3	N		
2194	Oxybis(n,n-dimethylethanamine), 2,2'-; (Bis(2-dimethylaminoethyl) ether; DMAEE)	3033-62-3	BJH750	160.26	ppm	Y	6.55	C8.H20.N2.O
2195	Oxydiacetic acid; (Oxodiacetic acid)	110-99-6	ONQ100	134.10	mg/m3	N	5.48	C4H6O5
2196	Oxydiethylenedicarbonic acid, diallyl ester	142-22-3	AGD250	274.30	mg/m3	Y	11.21	C12.H18.O7
2197	Oxydiphenoxarsine, 10,10'-; (Phenoxyarsine oxide)	58-36-6	OMY850	502.24	mg/m3	Y	20.53	C24H16As2O3
2198	Oxydisulfoton	2497-07-6	OQS000	290.42	mg/m3	N	11.87	C8H19O3PS3
2199	Oxygen (liquid)	7782-44-7	OQW000	32.00	ppm	Y	1.31	O2
2200	**Oxygen difluoride; (Fluorine monoxide)**	**7783-41-7**	ORA000	54.00	ppm	Y	2.21	F2O
2201	Ozone	10028-15-6	ORW000	48.00	ppm	Y	1.96	O3
2202	Palladium	7440-05-3	PAD250	106.40	mg/m3	N	4.35	Pd
2203	Palladium chloride	7647-10-1	PAD500	177.30	mg/m3	Y	7.25	Cl2Pd

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2190	Oxamyl	23135-22-0	S	100-102	310	0.00023	25	0.98	3	
2191	Oxathiane, 1,4-	15980-15-1	L	-17	148.7			1.117	3	17600
2192	Oxirane, ethenyl-; (3,4-Epoxy-1-butene)	930-22-3	L	-135	67			0.869	3	
2193	Oxone, monopersulfate compound	37222-66-5	S							
2194	Oxybis(n,n-dimethylethanamine), 2,2'-; (Bis(2-dimethylaminoethyl) ether; DMAEE)	3033-62-3	L		180-182				3	
2195	Oxydiacetic acid; (Oxodiacetic acid)	110-99-6							2	
2196	Oxydiethylenedicarbonic acid, diallyl ester	142-22-3	L	-4	162			1.14	3	
2197	Oxydiphenoxarsine, 10,10'-; (Phenoxyarsine oxide)	58-36-6	S	184-185	380 dec	0.00001	25	1.40-1.42	3	
2198	Oxydisulfoton	2497-07-6	L		330	0.0035	25		3	
2199	Oxygen (liquid)	7782-44-7	G	-218.4	-182.96	760	-183	1.14 @ -183C	3	
2200	**Oxygen difluoride; (Fluorine monoxide)**	**7783-41-7**	G	-223.8	-144.8	760	-144.6	1.90 @ -224C	3	
2201	Ozone	10028-15-6	G	-192.8	-111.7	>760		2.144 gas	3	
2202	Palladium	7440-05-3	S	1554	2800	~0	20	12.02	2	
2203	Palladium chloride	7647-10-1	S	678-680 (dec.)				4	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2190	Oxamyl	23135-22-0					NA
2191	Oxathiane, 1,4-	15980-15-1	01/04/99				1
2192	Oxirane, ethenyl-; (3,4-Epoxy-1-butene)	930-22-3					NA
2193	Oxone, monopersulfate compound	37222-66-5					NA
2194	Oxybis(n,n-dimethylethanamine), 2,2'-; (Bis(2-dimethylaminoethyl) ether; DMAEE)	3033-62-3	06/25/07		06/25/07	GOEV, RTECS.	NA
2195	Oxydiacetic acid; (Oxodiacetic acid)	110-99-6	01/04/99				NA
2196	Oxydiethylenedicarbonic acid, diallyl ester	142-22-3					3
2197	Oxydiphenoxarsine, 10,10'-; (Phenoxyarsine oxide)	58-36-6					NA
2198	Oxydisulfoton	2497-07-6					NA
2199	Oxygen (liquid)	7782-44-7					3
2200	**Oxygen difluoride; (Fluorine monoxide)**	**7783-41-7**		07/18/08	07/01/08	GOEV, EPA.	NA
2201	Ozone	10028-15-6	10/31/92	02/27/08	02/27/08	GOEV, NIOSH.	NA
2202	Palladium	7440-05-3	08/21/96				NA
2203	Palladium chloride	7647-10-1	01/04/99				NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2204	Palladium hydroxide	12135-22-7	N.I.S. etc	140.43	mg/m3	N	5.74	Pd(OH)2
2205	Paraffin waxes, petroleum, clay-treated, reaction products with petroleum white mineral oil, stearic acid and triethanolamine	71808-29-2	N.I.S.		mg/m3	N		Cl8.H36.O2..C6.H15.N.O3
2206	Paraffin, n-	8002-74-2	PAH750		mg/m3	Y		CnH2n=2
2207	Paraffins, petroleum, normal C5-C20	64771-72-8	N.I.S. etc.	189.00	ppm	Y	7.72	CnH2n=2
2208	Paraformaldehyde	30525-89-4	PAI000		mg/m3	Y		(CH2O)n
2209	Paraldehyde	123-63-7	PAI250	132.18	mg/m3	N	5.40	C6H12O3
2210	Paraquat	4685-14-7	PAI990	186.28	mg/m3	Y	7.61	C12-H14-N2--C12-H14-N2-2Cl
2211	Paraquat dichloride	1910-42-5	PAJ000	257.18	mg/m3	Y	10.51	C12H14N2.2Cl
2212	Paraquat methosulfate; (Paraquat dimethyl sulphate)	2074-50-2	PAJ250	408.48	mg/m3	N	16.70	C12H4N2-2CH3-SO4
2213	Parathion	56-38-2	PAK000	291.28	mg/m3	N	11.91	(C2H5O)2-P-S-OC6H4-NO2
2214	Paris Green; (Cupric acetoarsenite)	12002-03-8	COG500	1013.78	mg/m3	N	41.43	C4-H6-As6-Cu4-O16
2215	Particulate material (PNOS)	z-0037	N.I.S. etc.		mg/m3	N		[Unspecified]
2216	PBX (mixture of HMX and nitrocellulose)	z-0038	N.I.S. etc	450.00	mg/m3	N	18.39	.25HMX+.75CTN

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2204	Palladium hydroxide	12135-22-7	S							
2205	Paraffin waxes, petroleum, clay-treated, reaction products with petroleum white mineral oil, stearic acid and triethanolamine	71808-29-2	S	115	360			1.65	3	
2206	Paraffin, n-	8002-74-2	varies	47-65				~0.90	2	
2207	Paraffins, petroleum, normal C5-C20	64771-72-8	Swax		225-243	25.8	38	0.764 @ 15.6C	1	
2208	Paraformaldehyde	30525-89-4	S	155	decomp			1.46 @ 15C	3	[70000]
2209	Paraldehyde	123-63-7	L	12.6	124.4			0.9943	3	13000
2210	Paraquat	4685-14-7	S	300					3 3	
2211	Paraquat dichloride	1910-42-5	S	300					3	
2212	Paraquat methosulfate; (Paraquat dimethyl sulphate)	2074-50-2	S	300		1E-07	25		3	
2213	Parathion	56-38-2	L	6	375	0.00004	20	1.26	3	
2214	Paris Green; (Cupric acetoarsenite)	12002-03-8	S			0.00001	25		3	
2215	Particulate material (PNOS)	z-0037	S						1	
2216	PBX (mixture of HMX and nitrocellulose)	z-0038	S						3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2204	Palladium hydroxide	12135-22-7					NA
2205	Paraffin waxes, petroleum, clay-treated, reaction products with petroleum white mineral oil, stearic acid and triethanolamine	71808-29-2			08/26/07	PNOS.	NA
2206	Paraffin, n-	8002-74-2	08/21/96				1
2207	Paraffins, petroleum, normal C5-C20	64771-72-8					NA
2208	Paraformaldehyde	30525-89-4					3
2209	Paraldehyde	123-63-7	08/21/96				2
2210	Paraquat	4685-14-7	09/30/97	02/27/08	02/27/08	GOEV, RTECS, NIOSH.	NA
2211	Paraquat dichloride	1910-42-5	09/30/97	02/27/08	02/27/08	GOEV, RTECS, NIOSH.	NA
2212	Paraquat methosulfate; (Paraquat dimethyl sulphate)	2074-50-2					NA
2213	Parathion	56-38-2	08/21/96	02/27/08	11/28/07	GOEV, EPA, NIOSH	NA
2214	Paris Green; (Cupric acetoarsenite)	12002-03-8					NA
2215	Particulate material (PNOS)	z-0037					
2216	PBX (mixture of HMX and nitrocellulose)	z-0038					

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2217	**Pentaborane**	**19624-22-7**	PAT750	63.14	ppm	Y	2.58	B5H9
2218	Pentachlorobenzene	608-93-5	PAV500	250.32	mg/m3	N	10.23	C6HCl5
2219	Pentachlorodibenzofuran, 1,2,3,7,8-	57117-41-6	PAV860	340.40	mg/m3	N	13.91	C12.H3.Cl5.O
2220	Pentachlorodibenzofuran, 2,3,4,7,8-	57117-31-4	PAW100	340.40	mg/m3	N	13.91	C12H3Cl5O
2221	Pentachlorodibenzo-p-dioxin, 1,2,3,7,8-	40321-76-4	PAV850	356.40	mg/m3	N	14.57	C12H3Cl5O2
2222	Pentachloroethane	76-01-7	PAW500	202.28	mg/m3	N	8.27	C2HCl5
2223	Pentachloronitrobenzene	82-68-8	PAX000	295.32	mg/m3	N	12.07	C6Cl5NO2
2224	Pentachlorophenol	87-86-5	PAX250	266.32	mg/m3	Y	10.88	C6Cl5OH
2225	Pentadecafluorooctanoic acid	335-67-1	PCH050	414.09	mg/m3	N	16.92	C8.H.F15.O2
2226	Pentadecane	629-62-9	PAY750	212.47	ppm	N	8.68	C15H32
2227	Pentadecanoic acid	1002-84-2	PAZ000	242.45	ppm	N	9.91	C15-H30-O2
2228	Pentadecylamine	2570-26-5	PBA000	227.49	mg/m3	Y	9.30	C15H33N
2229	Pentaerythritol	115-77-5	PBB750	136.17	mg/m3	N	5.57	C5H12O4

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2217	**Pentaborane**	**19624-22-7**	L	-46.6	60	170	25	0.61 @ 0C	3	4200
2218	Pentachlorobenzene	608-93-5	S	85-86	275-7			1.834@ 170C	2	
2219	Pentachlorodibenzofuran, 1,2,3,7,8-	57117-41-6	S						D	
2220	Pentachlorodibenzofuran, 2,3,4,7,8-	57117-31-4	S						3	
2221	Pentachlorodibenzo-p-dioxin, 1,2,3,7,8-	40321-76-4	S	240-241					3	
2222	Pentachloroethane	76-01-7	L	-29	161-2			1.6728	3	
2223	Pentachloronitrobenzene	82-68-8	S	146	328	0.013	25	1.718	3	
2224	Pentachlorophenol	87-86-5	S	190	308.9	0.001	20	1.978	3	
2225	Pentadecafluorooctanoic acid	335-67-1	S	55-56	189	0.15	20	1.792 @ 20C	3	
2226	Pentadecane	629-62-9	L	9.9	270.6	0.0034	35	0.7685 @ 20C	2	5000
2227	Pentadecanoic acid	1002-84-2	S	53	257 @ 100 MM				3	
2228	Pentadecylamine	2570-26-5	S	36.5	307.6	0.0003	25		3	
2229	Pentaerythritol	115-77-5	S	262				1.38	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2217	**Pentaborane**	**19624-22-7**		07/19/08	07/02/08	GOEV, EPA.	4
2218	Pentachlorobenzene	608-93-5	08/21/96				NA
2219	Pentachlorodibenzofuran, 1,2,3,7,8-	57117-41-6	03/01/00				NA
2220	Pentachlorodibenzofuran, 2,3,4,7,8-	57117-31-4	09/30/97				NA
2221	Pentachlorodibenzo-p-dioxin, 1,2,3,7,8-	40321-76-4	09/30/97				NA
2222	Pentachloroethane	76-01-7	08/21/96				NA
2223	Pentachloronitrobenzene	82-68-8	08/21/96				NA
2224	Pentachlorophenol	87-86-5	08/21/96				3
2225	Pentadecafluorooctanoic acid	335-67-1					NA
2226	Pentadecane	629-62-9					NA
2227	Pentadecanoic acid	1002-84-2					NA
2228	Pentadecylamine	2570-26-5					NA
2229	Pentaerythritol	115-77-5	01/04/99				NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2230	Pentaerythritol tetra(3-mercaptopropionate), reaction products with 2-(hydroxymethyl)-2-((3-mercapto-1-oxopropoxy)methyl)-1,3-propanediyl bis(3-mercaptopropanoate) and 1-octene	95823-35-1	N.I.S.	1001.38	mg/m3	N	40.93	C17.H28.O8.S4..C14.H24.O7.S3..C8.H16
2231	Pentaerythritol tetranitrate	78-11-5	PBC250	316.17	mg/m3	N	12.92	C(CH2O NO2)4
2232	Pentafluorobenzoic acid	602-94-8	PBD275	212.08	mg/m3	Y	8.67	C7.H.F5.O2
2233	Pentafluoropropane, 1,1,1,3,3-	460-73-1	N.I.S.	134.06	ppm	N	5.48	C3.H3.F5
2234	Pentane, n-	109-66-0	PBK250	72.17	ppm	Y	2.95	C5H12
2235	Pentanediol, 1,5-	111-29-5	PBK750	104.17	mg/m3	Y	4.26	C5.H12.O2
2236	Pentanedione, 2,4-; (Acetylacetone)	123-54-6	ABX750	100.13	ppm	Y	4.09	C5.H8.O2
2237	Pentanenitrile	110-59-8	VAV300	83.15	ppm	N	3.40	C5-H9-N
2238	Pentanol, 2-; (sec-amyl alcohol; Methyl propyl carbinol; Isoamyl alcohol, secondary)	6032-29-7	PBM750	88.17	ppm	Y	3.60	C5.H12.O
2239	Pentanone, 2-; (Methyl propyl ketone)	107-87-9	PBN250	86.15	ppm	Y	3.52	C5H10O
2240	Pentanone, 3-; (Diethyl ketone)	96-22-0	DJN750	86.15	ppm	Y	3.52	C5.H10.O
2241	Pentatriacontane	630-07-9	N.I.S.	492.95	mg/m3	N	20.15	C35.H72
2242	Pentene, 1-	109-67-1	PBQ000	70.13	ppm	N	2.87	C5H10

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2230	Pentaerythritol tetra(3-mercaptopropionate), reaction products with 2-(hydroxymethyl)-2-((3-mercapto-1-oxopropoxy)methyl)-1,3-propanediyl bis(3-mercaptopropanoate) and 1-octene	95823-35-1	S							
2231	Pentaerythritol tetranitrate	78-11-5	S	138-140	205-215 expl			1.773	3	
2232	Pentafluorobenzoic acid	602-94-8	S	107	220				3	
2233	Pentafluoropropane, 1,1,1,3,3-	460-73-1	G		15.3	935	20	1.32		
2234	Pentane, n-	109-66-0	L	-129.8	36.1	400	18.5	0.626	3	14000
2235	Pentanediol, 1,5-	111-29-5	L	-18	239	<0.01	20	0.994 @ 20C	2	
2236	Pentanedione, 2,4-; (Acetylacetone)	123-54-6	L	-23.2	139			0.9721	3	24000
2237	Pentanenitrile	110-59-8	L	-96.2	141.3			0.8008 @ 20C	3	
2238	Pentanol, 2-; (sec-amyl alcohol; Methyl propyl carbinol; Isoamyl alcohol, secondary)	6032-29-7	L	-50	119.3	1	20	0.8169 @ 20C	3	12000
2239	Pentanone, 2-; (Methyl propyl ketone)	107-87-9	L		102			0.801-0.806	3	15000
2240	Pentanone, 3-; (Diethyl ketone)	96-22-0	L	-42	101			0.8159 @ 19C	3	16000
2241	Pentatriacontane	630-07-9	S							
2242	Pentene, 1-	109-67-1	L	-165.2	29.9	635	25	0.6405 @ 20C	3	14000

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2230	Pentaerythritol tetra(3-mercaptopropionate), reaction products with 2-(hydroxymethyl)-2-((3-mercapto-1-oxopropoxy)methyl)-1,3-propanediyl bis(3-mercaptopropanoate) and 1-octene	95823-35-1					NA
2231	Pentaerythritol tetranitrate	78-11-5	08/07/98				NA
2232	Pentafluorobenzoic acid	602-94-8					NA
2233	Pentafluoropropane, 1,1,1,3,3-	460-73-1					NA
2234	Pentane, n-	109-66-0	08/07/98				1
2235	Pentanediol, 1,5-	111-29-5					1
2236	Pentanedione, 2,4-; (Acetylacetone)	123-54-6					2
2237	Pentanenitrile	110-59-8					NA
2238	Pentanol, 2-; (sec-amyl alcohol; Methyl propyl carbinol; Isoamyl alcohol, secondary)	6032-29-7					1
2239	Pentanone, 2-; (Methyl propyl ketone)	107-87-9	01/04/99	02/27/08	12/06/07	GOEV, RTECS, NIOSH.	2
2240	Pentanone, 3-; (Diethyl ketone)	96-22-0					1
2241	Pentatriacontane	630-07-9					NA
2242	Pentene, 1-	109-67-1					1

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2243	Pentobarbital sodium; (Nembutal sodium)	57-33-0	NBU000	249.30	mg/m3	N	10.19	C11H18N2O3.Na
2244	Pentyl alcohol, tert-; (tert-Amyl alcohol)	75-85-4	PBV000	88.17	ppm	Y	3.60	C5.H12.0
2245	Peptone; (Hydrolized protein, Tryptones)	73049-73-7	N.I.S.		mg/m3	N		
2246	**Peracetic acid**	**79-21-0**	PCL500	76.06	mg/m3	Y	3.11	CH3.C(O)O OH
2247	Perboric acid, sodium salt	7632-04-4	SJB100	82.81	mg/m3	N	3.38	B.H.O3..Na
2248	Perchloric acid	7601-90-3	PCD250	100.46	ppm	Y	4.11	ClHO4
2249	Perchloric acid, zinc salt, hexahydrate	10025-64-6	ZKS100	372.39	mg/m3	Y	15.22	Cl2.O8-Zn-6(H2.O)
2250	**Perchloroethylene; (Tetrachloroethylene)**	**127-18-4**	PCF275	165.82	ppm	Y	6.78	Cl2C=CCl2
2251	**Perchloromethyl mercaptan**	**594-42-3**	PCF300	185.87	ppm	Y	7.60	CCl4S
2252	Perchloryl fluoride; (Chlorine oxyfluoride)	7616-94-6	PCF750	102.45	ppm	Y	4.19	ClFO3
2253	Percoll	65455-52-9	N.I.S., etc		mg/m3	N		
2254	Perfluoro compounds, C5-C18; (Fluorinert electronic liquid perfluoro compounds)	86508-42-1	N.I.S.	332.42	ppm	N	13.59	C6.F14
2255	Perfluoroalkylether polymer; (Capped homopolymers of hexafluoropropylene epoxide, Fluorine End-)	60164-51-4	N.I.S.		mg/m3	N		(C3.F6.O)n..C5.F12.O
2256	**Perfluoroisobutylene; (Octafluoro-sec-butene)**	**382-21-8**	OBM000	200.04	ppm	Y	8.18	(CF3)2. C=CF2

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2243	Pentobarbital sodium; (Nembutal sodium)	57-33-0	L	130					3	
2244	Pentyl alcohol, tert-; (tert-Amyl alcohol)	75-85-4	L	-11.9	101.8	16.8	25	0.809	3	12000
2245	Peptone; (Hydrolized protein, Tryptones)	73049-73-7	S							
2246	**Peracetic acid**	**79-21-0**	L	0.1	105			1.15 @ 20C	3	56000
2247	Perboric acid, sodium salt	7632-04-4	S	60 dec					2	
2248	Perchloric acid	7601-90-3	L	-112	19 @ 11mm			1.768	3	
2249	Perchloric acid, zinc salt, hexahydrate	10025-64-6	S	105-107	200 dec			2.252	3	
2250	**Perchloroethylene; (Tetrachloroethylene)**	**127-18-4**	L	-18.9	121.1	14	20	1.6311@ 150C	3	110000
2251	**Perchloromethyl mercaptan**	**594-42-3**	L		149dec	3	20	1.7	3	
2252	Perchloryl fluoride; (Chlorine oxyfluoride)	7616-94-6	G	-146	-46.8			1.434 (L)	2	
2253	Percoll	65455-52-9								
2254	Perfluoro compounds, C5-C18; (Fluorinert electronic liquid perfluoro compounds)	86508-42-1	L		102	31	20	1.8	1	
2255	Perfluoroalkylether polymer; (Capped homopolymers of hexafluoropropylene epoxide, Fluorine End-)	60164-51-4	S					1.32 - 2.2	1	
2256	**Perfluoroisobutylene; (Octafluoro-sec-butene)**	**382-21-8**	G		7	>760		1.592 @ 0C	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2243	Pentobarbital sodium; (Nembutal sodium)	57-33-0					NA
2244	Pentyl alcohol, tert-; (tert-Amyl alcohol)	75-85-4					1
2245	Peptone; (Hydrolized protein, Tryptones)	73049-73-7					NA
2246	**Peracetic acid**	**79-21-0**	01/04/99	02/05/08	12/20/07	EPA	3
2247	Perboric acid, sodium salt	7632-04-4					
2248	Perchloric acid	7601-90-3	09/30/97				NA
2249	Perchloric acid, zinc salt, hexahydrate	10025-64-6					NA
2250	**Perchloroethylene; (Tetrachloroethylene)**	**127-18-4**	10/31/92	07/18/08	07/30/07	GOEV, EPA.	2
2251	**Perchloromethyl mercaptan**	**594-42-3**	03/01/00	07/18/08	08/16/07	EPA.	NA
2252	Perchloryl fluoride; (Chlorine oxyfluoride)	7616-94-6			08/16/07	GOEV, NIOSH.	NA
2253	Percoll	65455-52-9					NA
2254	Perfluoro compounds, C5-C18; (Fluorinert electronic liquid perfluoro compounds)	86508-42-1			05/01/07	HSDB	NA
2255	Perfluoroalkylether polymer; (Capped homopolymers of hexafluoropropylene epoxide, Fluorine End-)	60164-51-4	04/15/07		08/26/07	SRS HHR	NA
2256	**Perfluoroisobutylene; (Octafluoro-sec-butene)**	**382-21-8**	10/31/92		08/16/07	GOEV, AIHA.	NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2257	Perfluoropolyether; (1,1,2,3,3,3-hexafluoro-1-propene, oxidized, polymerized; Vacuum pump oil)	69991-67-9	N.I.S.		mg/m3	Y		CF3-((O.C.F.C.F3.C.F2-)x.)-O.C.F2)x).O.CF3
2258	Periodic acid	10450-60-9	N.I.S.	227.94	mg/m3	Y	9.32	H5.I.O6
2259	Periodic acid, sodium salt	7790-28-5	SJB500	213.89	mg/m3	Y	8.74	Na..I.O4
2260	Perlite; (Fused NaKAl silicate, < 1% quartz)	93763-70-3	PCJ400		mg/m3	N		NaKAlSiOx
2261	Permafluor E+	z-0039	N.I.S. etc.		mg/m3	N		Mixture
2262	Permafluor-V (85+% toluene)	z-0040	N.I.S. etc.	85.00	ppm	N	3.47	Mixture
2263	Peroxydicarbonic acid, disodium salt	3313-92-6	N.I.S.	168.02	mg/m3	N	6.87	C2H2O6.2Na
2264	Petrolatum	8009-03-8	N.I.S.		mg/m3	N		
2265	Petroleum 50 thinner; (Paint thinner)	z-0041	PCT500	130.00	ppm	Y	5.31	[Unspecified]
2266	Petroleum asphalt	8052-42-4b	PCR500		mg/m3	Y		[Unspecified]
2267	Petroleum coke, calcined	64743-05-1	N.I.S.		mg/m3	N		unspecified
2268	Petroleum distillate	8002-05-9a	PCS250	97.87	mg/m3	Y	4.00	[Unspecified]
2269	Petroleum distillates, clay-treated light naphthenic	64742-45-6	PCS270		mg/m3	N		
2270	Petroleum distillates, low boiling	68477-31-6	N.I.S.	99.00	mg/m3	Y	4.05	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2257	Perfluoropolyether; (1,1,2,3,3,3-hexafluoro-1-propene, oxidized, polymerized; Vacuum pump oil)	69991-67-9	L		>270 @ 5 mm	<1	20	1.9		
2258	Periodic acid	10450-60-9	L							
2259	Periodic acid, sodium salt	7790-28-5	S	300	dec			3.865	3	
2260	Perlite; (Fused NaKAl silicate, < 1% quartz)	93763-70-3	S amor					0.13	1	
2261	Permafluor E+	z-0039	L	-50	150	5		0.9		
2262	Permafluor-V (85+% toluene)	z-0040	L			22	20	0.86	3	
2263	Peroxydicarbonic acid, disodium salt	3313-92-6								
2264	Petrolatum	8009-03-8	S	38-54				0.820-0.865	0	
2265	Petroleum 50 thinner; (Paint thinner)	z-0041	L						1	
2266	Petroleum asphalt	8052-42-4b	S						2	
2267	Petroleum coke, calcined	64743-05-1	S							
2268	Petroleum distillate	8002-05-9a	L						2	
2269	Petroleum distillates, clay-treated light naphthenic	64742-45-6	L						2	
2270	Petroleum distillates, low boiling	68477-31-6	L						2	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2257	Perfluoropolyether; (1,1,2,3,3,3-hexafluoro-1-propene, oxidized, polymerized; Vacuum pump oil)	69991-67-9					NA
2258	Periodic acid	10450-60-9					NA
2259	Periodic acid, sodium salt	7790-28-5					NA
2260	Perlite; (Fused NaKAl silicate, < 1% quartz)	93763-70-3	07/09/97	07/10/08	07/10/08	GOEV, RTECS.	NA
2261	Permafluor E+	z-0039					
2262	Permafluor-V (85+% toluene)	z-0040					
2263	Peroxydicarbonic acid, disodium salt	3313-92-6	01/04/99				NA
2264	Petrolatum	8009-03-8					NA
2265	Petroleum 50 thinner; (Paint thinner)	z-0041	09/30/97				
2266	Petroleum asphalt	8052-42-4b	09/30/97				
2267	Petroleum coke, calcined	64743-05-1					NA
2268	Petroleum distillate	8002-05-9a	07/09/97	02/27/08	05/19/07	GOEV 2007.	
2269	Petroleum distillates, clay-treated light naphthenic	64742-45-6					NA
2270	Petroleum distillates, low boiling	68477-31-6		02/08/08		GOEV, NIOSH, RTECS	NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2271	Petroleum mineral oil; (Extracts, petroleum, middle distillate solvent)	64742-06-9	N.I.S.		mg/m3	N		C9 through C20
2272	Petroleum spirits; (Mineral spirits; Soltrol)	64475-85-0	MQV900	97.26	ppm	N	3.98	[Unspecified]
2273	Petroleum spirits; (VM & P Naphtha)	8032-32-4	PCT250	111.73	ppm	Y	4.57	[Unspecified]
2274	Petroleum; (Petroleum crude oil)	8002-05-9b	PCR250	97.87	mg/m3	Y	4.00	[Unspecified]
2275	Phenacetin; (p-acetophenetidide)	62-44-2	ABG750	179.24	mg/m3	N	7.33	C10H13NO2
2276	Phenaglycodol; (Ultran; 2-p-chlorophenyl-3-methyl-2,3-butanediol)	79-93-6	CKE750	214.71	mg/m3	N	8.78	C11H15ClO2
2277	Phenanthrene	85-01-8	PCW250	178.24	mg/m3	N	7.28	C14H10
2278	Phenanthroline ferrous sulfate, 1,10-	14634-91-4	N.I.S.	692.56	mg/m3	N	28.31	C36-H24-Fe-N6-O4-S
2279	Phenanthroline, 1,10-	66-71-7	PCY250	180.22	mg/m3	N	7.37	C12.H8.N2
2280	**Phenol**	**108-95-2**	PDN750	94.12	ppm	Y	3.85	C6.H5.OH
2281	Phenol red, sodium salt	34487-61-1	N.I.S.	376.36	mg/m3	N	15.38	C19.H13.Na.O5.S
2282	Phenol, polymer with formaldehyde, oxiranylmethyl ether	28064-14-4	N.I.S.		mg/m3	N		(C6.H6.O. .C.H2.O)x
2283	Phenolphthalein	77-09-8	PDO750	318.34	mg/m3	N	13.01	C20H14O4
2284	Phenoxyethanol, 2-; (Phenyl cellosolve)	122-99-6	PER000	138.18	ppm	Y	5.65	C8.H10.O2

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2271	Petroleum mineral oil; (Extracts, petroleum, middle distillate solvent)	64742-06-9			150-345					
2272	Petroleum spirits; (Mineral spirits; Soltrol)	64475-85-0	L						1	8000
2273	Petroleum spirits; (VM & P Naphtha)	8032-32-4	L	<-73	40-80			0.635-0.660	3	9000
2274	Petroleum; (Petroleum crude oil)	8002-05-9b						0.78 - 0.97	3	
2275	Phenacetin; (p-acetophenetidide)	62-44-2	S	154					3	
2276	Phenaglycodol; (Ultran; 2-p-chlorophenyl-3-methyl-2,3-butanediol)	79-93-6	S						3	
2277	Phenanthrene	85-01-8	S	100	339	1	118.3	1.179	3	7000
2278	Phenanthroline ferrous sulfate, 1,10-	14634-91-4	S							
2279	Phenanthroline, 1,10-	66-71-7	S	93-94					3	
2280	**Phenol**	**108-95-2**	S	42.8	181.7	0.4	20	1.072	3	17000
2281	Phenol red, sodium salt	34487-61-1	S	285					2	
2282	Phenol, polymer with formaldehyde, oxiranylmethyl ether	28064-14-4	L		>245	<20	20	1.22		
2283	Phenolphthalein	77-09-8	S	258-262				1.299	2	
2284	Phenoxyethanol, 2-; (Phenyl cellosolve)	122-99-6	L	14	242	0.03	25	1.11 @ 20C	2	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2271	Petroleum mineral oil; (Extracts, petroleum, middle distillate solvent)	64742-06-9	01/04/99				1
2272	Petroleum spirits; (Mineral spirits; Soltrol)	64475-85-0	01/04/99				1
2273	Petroleum spirits; (VM & P Naphtha)	8032-32-4	09/30/97				1
2274	Petroleum; (Petroleum crude oil)	8002-05-9b	09/30/97	02/27/08	02/27/08	GOEV, SAX, NIOSH.	
2275	Phenacetin; (p-acetophenetidide)	62-44-2	08/21/96				NA
2276	Phenaglycodol; (Ultran; 2-p-chlorophenyl-3-methyl-2,3-butanediol)	79-93-6	08/21/96				NA
2277	Phenanthrene	85-01-8	09/30/97				1
2278	Phenanthroline ferrous sulfate, 1,10-	14634-91-4					NA
2279	Phenanthroline, 1,10-	66-71-7	08/07/98				NA
2280	**Phenol**	**108-95-2**	10/31/92		08/16/07	GOEV, EPA, AIHA.	4
2281	Phenol red, sodium salt	34487-61-1					NA
2282	Phenol, polymer with formaldehyde, oxiranylmethyl ether	28064-14-4					NA
2283	Phenolphthalein	77-09-8					NA
2284	Phenoxyethanol, 2-; (Phenyl cellosolve)	122-99-6					3

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2285	**Phenyl Chloroformate; (Carbonochloridic acid, phenyl ester)**	**1885-14-9**	CBX109	156.57	ppm	Y	6.40	C7.H5.Cl.O2
2286	**Phenyl dichloroarsine; (Dichlorophenylarsine)**	**696-28-6**	DGB600	222.93	mg/m3	Y	9.11	C6.H5.As.Cl2
2287	Phenyl ether; (Diphenyl ether)	101-84-8	PFA850	170.22	ppm	Y	6.96	C12.H10.O
2288	Phenyl isocyanate.	103-71-9	PFK250	119.13	mg/m3	Y	4.87	C7.H5.N.O
2289	Phenyl sepharose cl-4b	69106-59-8	N.I.S.etc.		mg/m3	N		
2290	Phenyl-1,2-propanedione, 1-	579-07-7	PGA500	148.16	mg/m3	N	6.06	C9H8O2
2291	Phenyl-2-oxzaoline, 2-	7127-19-7	N.I.S. etc.	147.17	ppm	N	6.02	C9.H9.N.O
2292	Phenyl-2-propanol, 2-; (Dimethylphenylmethanol)	617-94-7	DTN100	136.21	ppm	Y	5.57	C9H12O
2293	Phenylacetylene; (Ethynylbenzene)	536-74-3	PEB750	102.14	mg/m3	Y	4.17	C8.H6
2294	Phenylazo)aniline, p-(	60-09-3	PEI000	197.26	mg/m3	N	8.06	C12H11N3
2295	Phenylboric acid; (Benzeneboronic acid)	98-80-6	BBM000	121.94	mg/m3	N	4.98	C6H7BO2
2296	Phenylcyclohexane; (Cyclohexylbenzene)	827-52-1	PER750	160.28	mg/m3	N	6.55	C12.H16
2297	Phenylene diisocyanate, 1,4-	104-49-4	PFA300	160.14	mg/m3	Y	6.55	C8H4N2O2

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2285	**Phenyl Chloroformate; (Carbonochloridic acid, phenyl ester)**	**1885-14-9**	L		187-189	63.074	20	1.244	3	
2286	**Phenyl dichloroarsine; (Dichlorophenylarsine)**	**696-28-6**	L	-15.6	254.4	0.021	20	1.654 @ 20C	3	
2287	Phenyl ether; (Diphenyl ether)	101-84-8	S	37-39	259			1.0728 @ 20C	2	7000
2288	Phenyl isocyanate.	103-71-9	L	-30	158-168	1	10.6	1.0956 @ 19.6C	3	
2289	Phenyl sepharose cl-4b	69106-59-8	S							
2290	Phenyl-1,2-propanedione, 1-	579-07-7	L	<20	222			1.007 @ 20C/4C	3	
2291	Phenyl-2-oxzaoline, 2-	7127-19-7	L	12	75			1.118		
2292	Phenyl-2-propanol, 2-; (Dimethylphenylmethanol)	617-94-7	S	35-37	202	0.52	37	0.9735 @ 20C	2	
2293	Phenylacetylene; (Ethynylbenzene)	536-74-3	L	-45	142	17.6	37.7	0.94	3	
2294	Phenylazo)aniline, p-(	60-09-3	S	126	360				3	
2295	Phenylboric acid; (Benzeneboronic acid)	98-80-6	S	216					3	
2296	Phenylcyclohexane; (Cyclohexylbenzene)	827-52-1	L	7-8	240	1	67.5	0.938	3	
2297	Phenylene diisocyanate, 1,4-	104-49-4	S						3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2285	**Phenyl Chloroformate; (Carbonochloridic acid, phenyl ester)**	**1885-14-9**		07/18/08	06/30/08	EPA.	NA
2286	**Phenyl dichloroarsine; (Dichlorophenylarsine)**	**696-28-6**	12/31/07	02/05/08	12/31/07	EPA, RTECS.	NA
2287	Phenyl ether; (Diphenyl ether)	101-84-8					1
2288	Phenyl isocyanate.	103-71-9					NA
2289	Phenyl sepharose cl-4b	69106-59-8					NA
2290	Phenyl-1,2-propanedione, 1-	579-07-7	03/01/00				NA
2291	Phenyl-2-oxzaoline, 2-	7127-19-7					NA
2292	Phenyl-2-propanol, 2-; (Dimethylphenylmethanol)	617-94-7					NA
2293	Phenylacetylene; (Ethynylbenzene)	536-74-3					NA
2294	Phenylazo)aniline, p-(	60-09-3					NA
2295	Phenylboric acid; (Benzeneboronic acid)	98-80-6	08/07/98				NA
2296	Phenylcyclohexane; (Cyclohexylbenzene)	827-52-1					2
2297	Phenylene diisocyanate, 1,4-	104-49-4					NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2298	Phenylenediamine dihydrochloride, 1,2-	615-28-1	PEY600	181.08	mg/m3	N	7.40	C6H8N2.2ClH
2299	Phenylenediamine dihydrochloride, 1,4-	624-18-0	PEY650	181.08	mg/m3	N	7.40	C6H8N2.2ClH
2300	Phenylenediamine, 1,2-; (o-Phenylenediamine)	95-54-5	PEY250	108.16	mg/m3	N	4.42	C6H8N2
2301	Phenylenediamine, 1,3-; (m-Phenylenediamine)	108-45-2	PEY000	108.16	mg/m3	N	4.42	C6H8N2
2302	Phenylenediamine, p-	106-50-3	PEY500	108.16	mg/m3	Y	4.42	C6H8N2
2303	Phenylhydrazine	100-63-0	PFI000	108.16	ppm	N	4.42	C6H8N2
2304	Phenylhydrazine hydrochloride	59-88-1	PFI250	144.62	mg/m3	N	5.91	C6H8N2.ClH
2305	Phenylmagnesium bromide	100-58-3	N.I.S.	181.31	mg/m3	N	7.41	C6.H5.Mg.Br
2306	Phenylmercury acetate; (Acetoxyphenylmercury)	62-38-4	ABU500	336.75	mg/m3	Y	13.76	C8H8HgO2
2307	Phenylphenol, 2-	90-43-7	BGJ250	170.22	mg/m3	Y	6.96	C12H10O
2308	Phenylphosphine	638-21-1	PFV250	110.10	ppm	N	4.50	C6-H7-P
2309	Phenylpropanolamine hydrochloride; (Propadrine hydrochloride)	154-41-6	PMJ500	187.69	mg/m3	N	7.67	C9.H13.N.O..Cl.H
2310	Phenylsilatrane	2097-19-0	PGH750	251.39	mg/m3	N	10.27	C12H17NO3Si
2311	Phenylthiourea; (1-phenyl-2-thiourea)	103-85-5	PGN250	152.23	mg/m3	N	6.22	C7H8N2S

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2298	Phenylenediamine dihydrochloride, 1,2-	615-28-1	S						3	
2299	Phenylenediamine dihydrochloride, 1,4-	624-18-0	S						3	
2300	Phenylenediamine, 1,2-; (o-Phenylenediamine)	95-54-5	S/L	104	257				3	15000
2301	Phenylenediamine, 1,3-; (m-Phenylenediamine)	108-45-2	S/L	65	287	1	99.8	1.139	3	
2302	Phenylenediamine, p-	106-50-3	S	146	267				3	5650
2303	Phenylhydrazine	100-63-0	L	19.6	243.5	0.026	25	1.0978 @ 20C	3	
2304	Phenylhydrazine hydrochloride	59-88-1	S/L	250-254	decom				3	
2305	Phenylmagnesium bromide	100-58-3	S						3	
2306	Phenylmercury acetate; (Acetoxyphenylmercury)	62-38-4	S	149-152					3	
2307	Phenylphenol, 2-	90-43-7	S	56	275			1.217	3	
2308	Phenylphosphine	638-21-1	L		160-161			1.001 @ 16C	3	
2309	Phenylpropanolamine hydrochloride; (Propadrine hydrochloride)	154-41-6	S	194					3	
2310	Phenylsilatrane	2097-19-0	S	208-209	350	0.00001	25		3	
2311	Phenylthiourea; (1-phenyl-2-thiourea)	103-85-5	S					1.3	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2298	Phenylenediamine dihydrochloride, 1,2-	615-28-1					NA
2299	Phenylenediamine dihydrochloride, 1,4-	624-18-0					NA
2300	Phenylenediamine, 1,2-; (o-Phenylenediamine)	95-54-5					3
2301	Phenylenediamine, 1,3-; (m-Phenylenediamine)	108-45-2					NA
2302	Phenylenediamine, p-	106-50-3	09/30/97				NA
2303	Phenylhydrazine	100-63-0					3
2304	Phenylhydrazine hydrochloride	59-88-1					NA
2305	Phenylmagnesium bromide	100-58-3					NA
2306	Phenylmercury acetate; (Acetoxyphenylmercury)	62-38-4	09/30/97	02/27/08	02/27/08	GOEV, RTECS, NIOSH.	3
2307	Phenylphenol, 2-	90-43-7	09/30/97				3
2308	Phenylphosphine	638-21-1					NA
2309	Phenylpropanolamine hydrochloride; (Propadrine hydrochloride)	154-41-6					NA
2310	Phenylsilatrane	2097-19-0					NA
2311	Phenylthiourea; (1-phenyl-2-thiourea)	103-85-5	08/21/96				NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2312	Phenyltriethoxysilane	780-69-8	PGO000	240.41	mg/m3	Y	9.83	C12.H20.O3.Si
2313	Phenyltrimethoxysilane	2996-92-1	PGO750	198.32	mg/m3	N	8.11	C9.H24.O3.Si
2314	Phenylxylylethane; (PXE)	6196-95-8	N.I.S.	210.32	mg/m3	N	8.60	(C6H5) (C6H3(CH3)2) CHCH3
2315	Phloroglucinol dihydrate	6099-90-7	N.I.S.	162.16	mg/m3	N	6.63	C6.H6.O3..2(H2.O)
2316	Phorate	298-02-2	PGS000	260.39	mg/m3	Y	10.64	C7H17O2PS3
2317	Phosacetim	4104-14-7	BIM000	375.22	mg/m3	N	15.34	C14H13Cl2N2O2PS
2318	Phosfolan	947-02-4	PGW750	255.31	mg/m3	N	10.43	C7H14NO3PS2
2319	**Phosgene**	**75-44-5**	PGX000	98.91	ppm	Y	4.04	CO.Cl2
2320	Phosmet	732-11-6	PHX250	317.33	mg/m3	Y	12.97	C11H12NO4PS2
2321	Phosphamidon; (Famfos)	13171-21-6	FAB400	299.72	mg/m3	N	12.25	C10H19ClNO5P
2322	**Phosphine**	**7803-51-2**	PGY000	34.00	ppm	Y	1.39	PH3
2323	Phosphomolybdic acid	11104-88-4	N.I.S.	159.92	mg/m3	N	6.54	H-O.Mo.O.P
2324	Phosphonic acid	13598-36-2	PGZ899	82.00	mg/m3	N	3.35	H3.O3.P
2325	Phosphonic acid, dioctadecyl ester	19047-85-9	N.I.S.	585.96	mg/m3	N	23.95	C36-H75-O3P

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2312	Phenyltriethoxysilane	780-69-8	L		232-233			1.00 @ 20C	2	
2313	Phenyltrimethoxysilane	2996-92-1	L		110 @ 20 mm			1.062	3	
2314	Phenylxylylethane; (PXE)	6196-95-8	L					0.983		
2315	Phloroglucinol dihydrate	6099-90-7	S	217						
2316	Phorate	298-02-2	L	-42.9	290	0.00084	25	1.156	3	
2317	Phosacetim	4104-14-7	S	104-106	400	0.0001	25		3	
2318	Phosfolan	947-02-4	S	39.5	410	0.0001	25		3	
2319	**Phosgene**	**75-44-5**	G	-127.8	8.3	>760		1.419 @ 0C	3	
2320	Phosmet	732-11-6	S	71.9	dec	0.00054	25	1.03 @ 20 C	3	
2321	Phosphamidon; (Famfos)	13171-21-6	L	-45	350	0.000025	25	1.21	2	
2322	**Phosphine**	**7803-51-2**	G	-133.9	-87.8	>760		1.529 @ 0C	3	17900
2323	Phosphomolybdic acid	11104-88-4	S					3.2	2	
2324	Phosphonic acid	13598-36-2	S hygr	73.8					2	
2325	Phosphonic acid, dioctadecyl ester	19047-85-9	S							

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2312	Phenyltriethoxysilane	780-69-8					NA
2313	Phenyltrimethoxysilane	2996-92-1					NA
2314	Phenylxylylethane; (PXE)	6196-95-8	08/07/98				NA
2315	Phloroglucinol dihydrate	6099-90-7					NA
2316	Phorate	298-02-2					NA
2317	Phosacetim	4104-14-7					NA
2318	Phosfolan	947-02-4					NA
2319	**Phosgene**	**75-44-5**	10/31/92	02/05/08	08/16/07	GOEV, EPA.	4
2320	Phosmet	732-11-6					NA
2321	Phosphamidon; (Famfos)	13171-21-6					NA
2322	**Phosphine**	**7803-51-2**	10/31/92	07/18/08	08/16/07	GOEV, EPA.	4
2323	Phosphomolybdic acid	11104-88-4	04/15/07				NA
2324	Phosphonic acid	13598-36-2					NA
2325	Phosphonic acid, dioctadecyl ester	19047-85-9					NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2326	Phosphonic acid, tridodecyl ester	3076-63-9	N.I.S.	587.08	mg/m3	N	23.99	C36-H75-O3-P
2327	Phosphoric acid	7664-38-2	PHB250	98.00	mg/m3	Y	4.01	H3.PO4
2328	Phosphoric acid, dimethyl-p-(methylthio)phenyl ester	3254-63-5	PHD250	248.25	mg/m3	N	10.15	C9H13O4PS
2329	Phosphorous acid, o-; (Phosphonic acid)	10294-56-1	N.I.S.	82.00	mg/m3	Y	3.35	H3.O3.P
2330	Phosphorous pentafluoride	7647-19-0	PHR750	125.97	ppm	Y	5.15	F5P
2331	Phosphorous trifluoride	7783-55-3	PHQ500	87.97	ppm	Y	3.60	F3P
2332	Phosphorus (red)	7723-14-0	PHO500	30.97	mg/m3	N	1.27	P
2333	Phosphorus (yellow); (White phosphorus)	12185-10-3	PHP010	123.88	mg/m3	Y	5.06	P4
2334	**Phosphorus oxychloride**	**10025-87-3**	PHQ800	153.32	ppm	Y	6.27	Cl3OP
2335	Phosphorus pentachloride	10026-13-8	PHR500	208.22	mg/m3	Y	8.51	Cl5P
2336	Phosphorus pentasulfide	1314-80-3	PHS000	222.24	mg/m3	Y	9.08	P2S5
2337	**Phosphorus pentoxide**	**1314-56-3**	PHS250	141.94	mg/m3	Y	5.80	P2.O5
2338	**Phosphorus trichloride**	**7719-12-2**	PHT275	137.32	ppm	Y	5.61	Cl3P
2339	Phosphorus trioxide	1314-24-5	PHT500	110.00	mg/m3	Y	4.50	P2.O3

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2326	Phosphonic acid, tridodecyl ester	3076-63-9	S							
2327	Phosphoric acid	7664-38-2	S	42.2	212.8	0.03	20	1.864	3	
2328	Phosphoric acid, dimethyl-p-(methylthio)phenyl ester	3254-63-5	L		300	0.001	25	1.273 @ 21C	3	
2329	Phosphorous acid, o-; (Phosphonic acid)	10294-56-1	S							
2330	Phosphorous pentafluoride	7647-19-0	G	-83	-75				3	
2331	Phosphorous trifluoride	7783-55-3	G	-152	-102				3	
2332	Phosphorus (red)	7723-14-0	Spwdr	590 @ 43atm	280			2.34	3	
2333	Phosphorus (yellow); (White phosphorus)	12185-10-3	S	44.1	280	0.03		1.82	3	
2334	**Phosphorus oxychloride**	**10025-87-3**	L	1.2	105.1	40	27.3	1.685 @ 15.5C	3	
2335	Phosphorus pentachloride	10026-13-8	S	148 dec under	160 subl	1	55.5	3.6	3	
2336	Phosphorus pentasulfide	1314-80-3	Sdel	286-290	514			2.09	3	
2337	**Phosphorus pentoxide**	**1314-56-3**	S	340	360 subl	1	189	2.3	3	
2338	**Phosphorus trichloride**	**7719-12-2**	L	-111.8	76	100	21	1.574	3	
2339	Phosphorus trioxide	1314-24-5	S	23.8	173.1			2.135 @ 21C	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2326	Phosphonic acid, tridodecyl ester	3076-63-9					NA
2327	Phosphoric acid	7664-38-2	10/31/92				3
2328	Phosphoric acid, dimethyl-p-(methylthio)phenyl ester	3254-63-5					NA
2329	Phosphorous acid, o-; (Phosphonic acid)	10294-56-1	04/15/07				NA
2330	Phosphorous pentafluoride	7647-19-0					NA
2331	Phosphorous trifluoride	7783-55-3					NA
2332	Phosphorus (red)	7723-14-0	11/15/96				1*
2333	Phosphorus (yellow); (White phosphorus)	12185-10-3	07/09/97				NA
2334	**Phosphorus oxychloride**	**10025-87-3**	03/01/00	02/05/08	08/16/07	GOEV, EPA.	4
2335	Phosphorus pentachloride	10026-13-8	08/07/98				3
2336	Phosphorus pentasulfide	1314-80-3	03/01/00				2
2337	**Phosphorus pentoxide**	**1314-56-3**	10/31/92		08/16/07	GOEV, AIHA.	NA
2338	**Phosphorus trichloride**	**7719-12-2**	01/04/99	07/18/08	08/16/07	EPA.	4
2339	Phosphorus trioxide	1314-24-5					NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2340	Phthalic acid	88-99-3	PHW250	166.14	mg/m3	Y	6.79	C8H6O4
2341	Phthalic acid, benzyl butyl ester; (Benzyl butyl phthalate)	85-68-7	BEC500	312.39	mg/m3	N	12.77	C19.H20.O4
2342	Phthalic anhydride	85-44-9	PHW750	148.12	mg/m3	Y	6.05	C6H4(CO)2O
2343	Phthaloyl dichloride; (Phthaloyl chloride)	88-95-9	N.I.S.	203.02	ppm	Y	8.30	C8.H4.Cl2.O2
2344	Physostigmine	57-47-6	PIA500	275.39	mg/m3	N	11.26	C15H21N3
2345	Physostigmine salicylate (1:1)	57-64-7	PIA750	413.52	mg/m3	N	16.90	C15H21N3O2.C7H6O3
2346	Picolinic acid; (2-Pyridinecarboxylic acid)	98-98-6	PIB930	123.12	mg/m3	N	5.03	C6.H5.N.O2
2347	Picric acid	88-89-1	PID000	229.12	mg/m3	Y	9.36	C6H3N3O7
2348	Picrotoxin	124-87-8	PIE500	602.64	mg/m3	N	24.63	C15H18O7.C15H16O6
2349	Pigment green 36	14302-13-7	CMS140	1393.30	mg/m3	N	56.95	C32.Br6.Cl10.Cu.N8
2350	Pigment yellow 13; (Butanamide, 2,2'-((3,3'-dichloro(1,1'-biphenyl)-4,4'-diyl)bis(azo)bis(N-(2,4-dimethylphenyl)-3-oxo-)	5102-83-0	CMS208	685.66	mg/m3	N	28.02	C36.H34.Cl2.N6.O4
2351	Pigment yellow 14	5468-75-7	CMS210	657.60	mg/m3	N	26.88	C34.H30.Cl2.N6.O4
2352	Pigment yellow 36; (Zinc chromate)	13530-65-9	ZFJ100	183.39	mg/m3	N	7.50	Cr.H2.O4..Zn
2353	Pinacolone; (3,3-Dimethyl-2-butanone)	75-97-8	DQU000	100.18	ppm	N	4.09	C.H3.CO..C(C.H3)3

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2340	Phthalic acid	88-99-3	S	210 dec	155			1.59	2	
2341	Phthalic acid, benzyl butyl ester; (Benzyl butyl phthalate)	85-68-7	L	-35	370			1.116	2	12000
2342	Phthalic anhydride	85-44-9	S	130.6	295	0.005		1.527 @ 4C	3	17000
2343	Phthaloyl dichloride; (Phthaloyl chloride)	88-95-9	L	15.5	281.1	30	47	1.409	3	
2344	Physostigmine	57-47-6	S	86-87		0.00001	25		3	
2345	Physostigmine salicylate (1:1)	57-64-7	S	184-186	dec	0.00001	25		3	
2346	Picolinic acid; (2-Pyridinecarboxylic acid)	98-98-6	S	136.5	subl				3	
2347	Picric acid	88-89-1	S	121.8	>300 expl			1.763	3	
2348	Picrotoxin	124-87-8	S	203-204		0.00001	25		3	
2349	Pigment green 36	14302-13-7	S						D	
2350	Pigment yellow 13; (Butanamide, 2,2'-((3,3'-dichloro(1,1'-biphenyl)-4,4'-diyl)bis(azo)bis(N-(2,4-dimethylphenyl)-3-oxo-)	5102-83-0	S						1	
2351	Pigment yellow 14	5468-75-7	S						1	
2352	Pigment yellow 36; (Zinc chromate)	13530-65-9	S	316					3	
2353	Pinacolone; (3,3-Dimethyl-2-butanone)	75-97-8	L	-52.5	106.1	31.5	25	0.7229	2	12940

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2340	Phthalic acid	88-99-3	01/04/99				1
2341	Phthalic acid, benzyl butyl ester; (Benzyl butyl phthalate)	85-68-7	01/04/99		10/15/06		1
2342	Phthalic anhydride	85-44-9	08/21/96				2
2343	Phthaloyl dichloride; (Phthaloyl chloride)	88-95-9	04/15/07				NA
2344	Physostigmine	57-47-6					NA
2345	Physostigmine salicylate (1:1)	57-64-7					NA
2346	Picolinic acid; (2-Pyridinecarboxylic acid)	98-98-6					NA
2347	Picric acid	88-89-1	09/30/97				3
2348	Picrotoxin	124-87-8					NA
2349	Pigment green 36	14302-13-7	03/01/00				NA
2350	Pigment yellow 13; (Butanamide, 2,2'-((3,3'-dichloro(1,1'-biphenyl)-4,4'-diyl)bis(azo)bis(N-(2,4-dimethylphenyl)-3-oxo-)	5102-83-0	03/01/00				NA
2351	Pigment yellow 14	5468-75-7	03/01/00				NA
2352	Pigment yellow 36; (Zinc chromate)	13530-65-9	01/04/99				NA
2353	Pinacolone; (3,3-Dimethyl-2-butanone)	75-97-8					NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2354	Pinacolyl alcohol; ((tert-Butyl methyl carbinol)	464-07-3	BRU300	102.20	ppm	N	4.18	C6.H14.O
2355	Piperazine	110-85-0	PIJ000	86.16	mg/m3	Y	3.52	C4H10N2
2356	**Piperidine**	**110-89-4**	PIL500	85.17	ppm	Y	3.48	C5H11NO
2357	Pirimifos-ethyl	23505-41-1	DIN600	333.43	mg/m3	N	13.63	C13H24N3O3PS
2358	Pivalic anhydride; (Trimethylacetic anhydride)	1538-75-6	N.I.S.	186.25	mg/m3	N	7.61	C10.H18.O3
2359	Platinum	7440-06-4	PJD500	195.09	mg/m3	N	7.97	Pt
2360	Platinum cyanide	592-06-3	N.I.S. etc.	247.10	mg/m3	N	10.10	Pt..C2.N2
2361	Poly alpha olefin; (Synthetic hydrocarbon mixture, PAO; Hydrogenated trimer and tetramer of decene)	68649-12-7	N.I.S.		mg/m3	Y		[Unspecified]
2362	Poly(1-(2-oxo-1-pyrrolidinyl)ethylene)iodine complex; (Iodine solutions)	25655-41-8	N.I.S. etc.		mg/m3	Y		(Mixture)
2363	Poly(1-vinyl-2-pyrrolidinone) homopolymer; (Polyvinylpyrrolidone; Plasdone)	9003-39-8	PKQ250		mg/m3	N		(C6.H9.O.N.)n
2364	Poly(acrylamide-co-diallyldimethylammonium chloride)	26590-05-6	N.I.S.		mg/m3	N		C11.H21.Cl.N2.O
2365	Poly(dimethylsiloxane), ethoxylated, dihydroxy terminated; (Silicon oil polymer)	68037-63-8	N.I.S.	1300.00	mg/m3	Y	53.13	C7.H20.O5.Si
2366	Poly(dimethylsiloxane), hydride terminated	70900-21-9	N.I.S.		mg/m3	N		
2367	Poly(dimethylsiloxane), vinyl dimethylsiloxy terminated	68083-19-2	N.I.S.		mg/m3	N		

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2354	Pinacolyl alcohol; ((tert-Butyl methyl carbinol)	464-07-3	L	5.6	120.4			0.8122	1	12220
2355	Piperazine	110-85-0	S	106	146			1.1	2	16000
2356	**Piperidine**	**110-89-4**	L	-9	106	40	29.2	0.8622	3	15000
2357	Pirimifos-ethyl	23505-41-1	L	15-18	130 dec	0.00029	25	1.14 @ 20C	3	
2358	Pivalic anhydride; (Trimethylacetic anhydride)	1538-75-6	L		193			0.918		
2359	Platinum	7440-06-4	S	1772	3827			21.45	2	
2360	Platinum cyanide	592-06-3	S							
2361	Poly alpha olefin; (Synthetic hydrocarbon mixture, PAO; Hydrogenated trimer and tetramer of decene)	68649-12-7	L		401	< 1	20	0.819	1	
2362	Poly(1-(2-oxo-1-pyrrolidinyl)ethylene)iodine complex; (Iodine solutions)	25655-41-8	L	17	118			0.9	3	
2363	Poly(1-vinyl-2-pyrrolidinone) homopolymer; (Polyvinylpyrrolidone; Plasdone)	9003-39-8	S pwdr	165				1.23 - 1.29	2	
2364	Poly(acrylamide-co-diallyldimethylammonium chloride)	26590-05-6	S					1.02		
2365	Poly(dimethylsiloxane), ethoxylated, dihydroxy terminated; (Silicon oil polymer)	68037-63-8	S		150			1.04	1	
2366	Poly(dimethylsiloxane), hydride terminated	70900-21-9	S							
2367	Poly(dimethylsiloxane), vinyl dimethylsiloxy terminated	68083-19-2	L							

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2354	Pinacolyl alcohol; ((tert-Butyl methyl carbinol)	464-07-3					NA
2355	Piperazine	110-85-0	01/04/99				3
2356	**Piperidine**	**110-89-4**	03/01/00	02/05/08	08/16/07	GOEV, EPA.	3
2357	Pirimifos-ethyl	23505-41-1					NA
2358	Pivalic anhydride; (Trimethylacetic anhydride)	1538-75-6					NA
2359	Platinum	7440-06-4	08/07/98				NA
2360	Platinum cyanide	592-06-3					NA
2361	Poly alpha olefin; (Synthetic hydrocarbon mixture, PAO; Hydrogenated trimer and tetramer of decene)	68649-12-7					NA
2362	Poly(1-(2-oxo-1-pyrrolidinyl)ethylene)iodine complex; (Iodine solutions)	25655-41-8		02/27/08	02/27/08	MSDS, RTECS.	NA
2363	Poly(1-vinyl-2-pyrrolidinone) homopolymer; (Polyvinylpyrrolidone; Plasdone)	9003-39-8			08/26/07	RTECS.	NA
2364	Poly(acrylamide-co-diallyldimethylammonium chloride)	26590-05-6					NA
2365	Poly(dimethylsiloxane), ethoxylated, dihydroxy terminated; (Silicon oil polymer)	68037-63-8					NA
2366	Poly(dimethylsiloxane), hydride terminated	70900-21-9					NA
2367	Poly(dimethylsiloxane), vinyl dimethylsiloxy terminated	68083-19-2					NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2368	Poly(divinylbenzene); (Diethylbenzene homopolymer)	9003-69-4	N.I.S.		mg/m3	N		(C10.H10)x
2369	Poly(ethylene glycol methyl ether)	9004-74-4	MFJ750	350.00	mg/m3	N	14.30	(C2.H4.O)n.C.H4.O
2370	Poly(ethylene glycol)diacrylate	26570-48-9	N.I.S.		mg/m3	N		(C2.H4.O)n..C6.H6.O3
2371	Poly(melamine-co-formaldehyde), methylated	68002-20-0	THR790	511.00	mg/m3	N	20.89	(C4.H8.N6.O)n
2372	Poly(oxy-1,2-ethanediyl), alpha-(4-octylphenyl)-omega-hydroxy-; (Polyethylene glycol mono(p-octylphenol)ether)	26636-32-8	N.I.S.		mg/m3	N		(C2.H4.O)n..C14.h22.o
2373	Poly(oxyethylene)(2) stearyl ether	9005-00-9	SLM000		mg/m3	N		(C2.H4.O)n.C18.H38.O
2374	Poly(Styrene-co-divinylbenzene); (Dowex Optipore V-502)	69011-14-9	N.I.S.	312.40	mg/m3	N	12.77	C24.H24
2375	Polyamide 6; (Capron; Poly(iminocarbonylpentamethylene))	25038-54-4	PJY500		mg/m3	N		(C6H11NO)n
2376	Polybutyl acrylate	9003-49-0	N.I.S.		mg/m3	N		(C7.H12.O2)n
2377	Polychlorinated biphenyl (Aroclor 1016); (Chlorodiphenyl (41% Cl))	12674-11-2	PJL800		mg/m3	N		41% Cl
2378	Polychlorinated biphenyl (Aroclor 1016/1242): (Chlorodiphenyl (37% Cl))	z-0042	N.I.S.		mg/m3	N		37% Cl
2379	Polychlorinated biphenyl (Aroclor 1221); (Chlorodiphenyl (21% Cl))	11104-28-2	PJM000	192.00	mg/m3	N	7.85	21% Cl
2380	Polychlorinated biphenyl (Aroclor 1232); (Chlorodiphenyl (32% Cl))	11141-16-5	PJM250		mg/m3	N		32% Cl
2381	Polychlorinated biphenyl (Aroclor 1242); (Chlorodiphenyl (42% Cl))	53469-21-9	PJM500		mg/m3	N		42% Cl

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2368	Poly(divinylbenzene); (Diethylbenzene homopolymer)	9003-69-4	S							
2369	Poly(ethylene glycol methyl ether)	9004-74-4	S						1	
2370	Poly(ethylene glycol)diacrylate	26570-48-9	S					1.11	3	
2371	Poly(melamine-co-formaldehyde), methylated	68002-20-0	S					1.2	3	
2372	Poly(oxy-1,2-ethanediyl), alpha-(4-octylphenyl)-omega-hydroxy-; (Polyethylene glycol mono(p-octylphenol)ether)	26636-32-8	S							
2373	Poly(oxyethylene)(2) stearyl ether	9005-00-9	S	40-45					2	
2374	Poly(Styrene-co-divinylbenzene); (Dowex Optipore V-502)	69011-14-9	S						0	
2375	Polyamide 6; (Capron; Poly(iminocarbonylpentamethylene))	25038-54-4	S						2	
2376	Polybutyl acrylate	9003-49-0	S							
2377	Polychlorinated biphenyl (Aroclor 1016); (Chlorodiphenyl (41% Cl))	12674-11-2	L		340-375			1.44 @ 30C	2	
2378	Polychlorinated biphenyl (Aroclor 1016/1242): (Chlorodiphenyl (37% Cl))	z-0042	L		340-375			1.44 @ 30C	2	
2379	Polychlorinated biphenyl (Aroclor 1221); (Chlorodiphenyl (21% Cl))	11104-28-2	L	1	340-375	0.0067	25	1.187 @ 15.5C	2	
2380	Polychlorinated biphenyl (Aroclor 1232); (Chlorodiphenyl (32% Cl))	11141-16-5	L		340-375			1.44 @ 30C	2	
2381	Polychlorinated biphenyl (Aroclor 1242); (Chlorodiphenyl (42% Cl))	53469-21-9	L		340-375				3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2368	Poly(divinylbenzene); (Diethylbenzene homopolymer)	9003-69-4			10/15/06		NA
2369	Poly(ethylene glycol methyl ether)	9004-74-4					NA
2370	Poly(ethylene glycol)diacrylate	26570-48-9					NA
2371	Poly(melamine-co-formaldehyde), methylated	68002-20-0					NA
2372	Poly(oxy-1,2-ethanediyl), alpha-(4-octylphenyl)-omega-hydroxy-; (Polyethylene glycol mono(p-octylphenol)ether)	26636-32-8	04/20/07		08/30/07	RTECS.	NA
2373	Poly(oxyethylene)(2) stearyl ether	9005-00-9					NA
2374	Poly(Styrene-co-divinylbenzene); (Dowex Optipore V-502)	69011-14-9					NA
2375	Polyamide 6; (Capron; Poly(iminocarbonylpentamethylene))	25038-54-4	09/30/97				NA
2376	Polybutyl acrylate	9003-49-0					NA
2377	Polychlorinated biphenyl (Aroclor 1016); (Chlorodiphenyl (41% Cl))	12674-11-2					NA
2378	Polychlorinated biphenyl (Aroclor 1016/1242): (Chlorodiphenyl (37% Cl))	z-0042					
2379	Polychlorinated biphenyl (Aroclor 1221); (Chlorodiphenyl (21% Cl))	11104-28-2					NA
2380	Polychlorinated biphenyl (Aroclor 1232); (Chlorodiphenyl (32% Cl))	11141-16-5					NA
2381	Polychlorinated biphenyl (Aroclor 1242); (Chlorodiphenyl (42% Cl))	53469-21-9	08/21/96				NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2382	Polychlorinated biphenyl (Aroclor 1248); (Chlorodiphenyl (48% Cl))	12672-29-6	PJM750		mg/m3	N		48% Cl
2383	Polychlorinated biphenyl (Aroclor 1254); (Chlorodiphenyl (54% Cl))	11097-69-1	PJN000		mg/m3	N		54% Cl
2384	Polychlorinated biphenyl (Aroclor 1260); (Chlorodiphenyl (60% Cl))	11096-82-5	PJN250		mg/m3	N		60% Cl
2385	Polychlorinated biphenyl (Aroclor 1260/1262): (Chlorodiphenyl (61% Cl?))	z-0043	PJN250		mg/m3	N		61% Cl
2386	Polychlorinated biphenyl (Aroclor 1262); (Chlorodiphenyl (62% Cl))	37324-23-5	PJN500		mg/m3	N		62% Cl
2387	Polychlorinated biphenyl (Aroclor 1268); (Chlorodiphenyl (68% Cl))	11100-14-4	PJN750		mg/m3	N		68% Cl
2388	Polychlorinated biphenyl; (Aroclor; PCBs)	1336-36-3	PJL750		mg/m3	N		[Unspecified]
2389	Polydimethyl siloxane; (Dimethylpolysiloxane)	9016-00-6	PJR000		mg/m3	N		(C2.H6.O.Si)x
2390	Polyether polyol ester	z-0112	N.I.S.	3000.00	mg/m3	N	122.61	
2391	**Polyethylbenzene residue; (Dowtherm Q)**	**68987-42-8**	N.I.S.	190.00	ppm	N	7.77	C14.H14
2392	Polyethylene	9002-88-4	PJS750		mg/m3	N		(C2H4)n
2393	Polyethylene glycol	25322-68-3	PJT000		mg/m3	Y		(C2H4O)n· H2O
2394	Polyethylene glycol 20M	37225-26-6	N.I.S.		mg/m3	Y		)C21.H24.O4..(-C2.H4.O)n.H2.O)x
2395	Polyethylene glycol dimethacrylate	25852-47-5	N.I.S.		mg/m3	N		(C2.H4.O)n.C8.H10.O3

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2382	Polychlorinated biphenyl (Aroclor 1248); (Chlorodiphenyl (48% Cl))	12672-29-6	L		340-375			1.4-1.5	3	
2383	Polychlorinated biphenyl (Aroclor 1254); (Chlorodiphenyl (54% Cl))	11097-69-1	S		340-375				3	
2384	Polychlorinated biphenyl (Aroclor 1260); (Chlorodiphenyl (60% Cl))	11096-82-5	S		340-375				3	
2385	Polychlorinated biphenyl (Aroclor 1260/1262): (Chlorodiphenyl (61% Cl?))	z-0043	S		340-375			1.44 @ 30C	2	
2386	Polychlorinated biphenyl (Aroclor 1262); (Chlorodiphenyl (62% Cl))	37324-23-5	S		340-375			1.44 @ 30C	2	
2387	Polychlorinated biphenyl (Aroclor 1268); (Chlorodiphenyl (68% Cl))	11100-14-4	S		340-375				3	
2388	Polychlorinated biphenyl; (Aroclor; PCBs)	1336-36-3	L/S		340-375			1.44 @ 30C	3	
2389	Polydimethyl siloxane; (Dimethylpolysiloxane)	9016-00-6	L		>149			0.834		
2390	Polyether polyol ester	z-0112	L							
2391	**Polyethylbenzene residue; (Dowtherm Q)**	**68987-42-8**	L	-40	267	0.0149	25	0.97 @ 20C		
2392	Polyethylene	9002-88-4	S	85-110				0.92	2	
2393	Polyethylene glycol	25322-68-3	L or S						2	
2394	Polyethylene glycol 20M	37225-26-6	L							
2395	Polyethylene glycol dimethacrylate	25852-47-5	S							

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2382	Polychlorinated biphenyl (Aroclor 1248); (Chlorodiphenyl (48% Cl))	12672-29-6	08/07/98				NA
2383	Polychlorinated biphenyl (Aroclor 1254); (Chlorodiphenyl (54% Cl))	11097-69-1	08/21/96				NA
2384	Polychlorinated biphenyl (Aroclor 1260); (Chlorodiphenyl (60% Cl))	11096-82-5	01/04/99				NA
2385	Polychlorinated biphenyl (Aroclor 1260/1262): (Chlorodiphenyl (61% Cl?))	z-0043					
2386	Polychlorinated biphenyl (Aroclor 1262); (Chlorodiphenyl (62% Cl))	37324-23-5					NA
2387	Polychlorinated biphenyl (Aroclor 1268); (Chlorodiphenyl (68% Cl))	11100-14-4	01/04/99				NA
2388	Polychlorinated biphenyl; (Aroclor; PCBs)	1336-36-3	07/09/97				NA
2389	Polydimethyl siloxane; (Dimethylpolysiloxane)	9016-00-6					NA
2390	Polyether polyol ester	z-0112					
2391	**Polyethylbenzene residue; (Dowtherm Q)**	**68987-42-8**			08/16/07	GOEV, AIHA.	NA
2392	Polyethylene	9002-88-4	09/30/97				NA
2393	Polyethylene glycol	25322-68-3	01/04/99				NA
2394	Polyethylene glycol 20M	37225-26-6					NA
2395	Polyethylene glycol dimethacrylate	25852-47-5					NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2396	Polyglycol 15-200: (Calthane NF and ND "B")	9082-00-2	PJX900		mg/m3	N		C3.H8.O3..3(-C3.H6.O..C2.H4.O)x
2397	Polyisocyanate prepolymer (based on MDI)	z-0115	N.I.S.		mg/m3	N		
2398	Polymaleic acid; (2-Butenediiodic acid homopolymer)	26099-09-2	PJY850		mg/m3	N		(C4.H4.O4)x
2399	Polymerized linseed oil	67746-08-1	N.I.S.		mg/m3	N		
2400	Polymethylene polyphenyl isocyanate; (Polymeric diphenylmethane diisocyanate)	9016-87-9	PKB100		mg/m3	N		
2401	Polymethylhydrosiloxane; (Methyl hydrogen polysiloxane)	63148-57-2	N.I.S.	254.59	mg/m3	N	10.41	C9.H30.O2.Si3
2402	Polymethylmethacrylate; (Lucite)	9011-14-7	PKB500		mg/m3	N		(C5.H8.O2)n
2403	Polyoxyalkyleneamine; (Poly(oxypropylene)diamine)	9046-10-0	N.I.S.		mg/m3	N		(C3-H6-O)n-C6-H16-N2-O
2404	Polyoxyethylene (20) sorbitan monolaurate	9005-64-5	PKG000	1228	mg/m3	Y	50.18	C58.H114.O26
2405	Polyoxyethylene monooctylphenyl ether	9036-19-5	GHS000		mg/m3	Y		(C2H4O)n C14H22O
2406	Polyoxyethylene sorbitan monopalmitate; (Tween 40)	9005-66-7	PKG500	1284	mg/m3	N	52.47	C62.H122.O26
2407	Polyoxypropylene polyamine	39423-51-3	N.I.S.		mg/m3	N		(C3.H6.O)n.(C3.H6.O)n.(C3.H6.O)n. C15.H35.N3.O3
2408	Polyphosphoric acid	8017-16-1	N.I.S.		mg/m3	Y		Hx+2-Px-O3x+1, x>1
2409	Polypropylene	9003-07-0	PMP500		mg/m3	N		(C3.H6)n

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2396	Polyglycol 15-200: (Calthane NF and ND "B")	9082-00-2	L	< -25	dec			1.013	1	
2397	Polyisocyanate prepolymer (based on MDI)	z-0115	S							
2398	Polymaleic acid; (2-Butenediiodic acid homopolymer)	26099-09-2	S						D	
2399	Polymerized linseed oil	67746-08-1	L							
2400	Polymethylene polyphenyl isocyanate; (Polymeric diphenylmethane diisocyanate)	9016-87-9	L		210 @ 5 mmHg	< 0.00001	25	1.24@ 20C	2	
2401	Polymethylhydrosiloxane; (Methyl hydrogen polysiloxane)	63148-57-2								
2402	Polymethylmethacrylate; (Lucite)	9011-14-7	S						2	
2403	Polyoxyalkyleneamine; (Poly(oxypropylene)diamine)	9046-10-0								
2404	Polyoxyethylene (20) sorbitan monolaurate	9005-64-5	S	-10	>100			1.084 @ 45C	2	
2405	Polyoxyethylene monooctylphenyl ether	9036-19-5							3	
2406	Polyoxyethylene sorbitan monopalmitate; (Tween 40)	9005-66-7	L						2	
2407	Polyoxypropylene polyamine	39423-51-3	S							
2408	Polyphosphoric acid	8017-16-1	L	21	300 - 500			2.06		
2409	Polypropylene	9003-07-0	S	165				0.90 - 0.92	2	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2396	Polyglycol 15-200: (Calthane NF and ND "B")	9082-00-2					NA
2397	Polyisocyanate prepolymer (based on MDI)	z-0115	06/26/07		06/26/07	RTECS	
2398	Polymaleic acid; (2-Butenediiodic acid homopolymer)	26099-09-2					NA
2399	Polymerized linseed oil	67746-08-1					NA
2400	Polymethylene polyphenyl isocyanate; (Polymeric diphenylmethane diisocyanate)	9016-87-9					NA
2401	Polymethylhydrosiloxane; (Methyl hydrogen polysiloxane)	63148-57-2					NA
2402	Polymethylmethacrylate; (Lucite)	9011-14-7					NA
2403	Polyoxyalkyleneamine; (Poly(oxypropylene)diamine)	9046-10-0	07/09/97				NA
2404	Polyoxyethylene (20) sorbitan monolaurate	9005-64-5					NA
2405	Polyoxyethylene monooctylphenyl ether	9036-19-5	01/04/99				NA
2406	Polyoxyethylene sorbitan monopalmitate; (Tween 40)	9005-66-7					NA
2407	Polyoxypropylene polyamine	39423-51-3	06/26/07		06/26/07	TSCA	NA
2408	Polyphosphoric acid	8017-16-1					NA
2409	Polypropylene	9003-07-0					NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2410	Polypropylene glycol,chloromethyl) oxirane polymer	9072-62-2	PKK100		mg/m3	N		((C3.H6.O)nH2.O..C3.H5.Cl.O)x
2411	Polypropylene glycols	25322-69-4	PKI550		mg/m3	Y		(C3H6O)n. H2O
2412	Polypropylene-polyethylene glycol; (Pluronic L-81)	9003-11-6	PJH630		mg/m3	N		(C3H6O·C2H4O)x
2413	Polysorbate 85; (Tween 85)	9005-70-3	TOE250		mg/m3	N		
2414	Polystyrene resin; (Styrene polymer)	9003-53-6	SMQ500		mg/m3	N		(C8H8)n
2415	Polysulfone resin	25135-51-7	N.I.S. etc.		mg/m3	N		
2416	Polytetrafluoroethylene; (Teflon)	9002-84-0	TAI250		mg/m3	N		(C2.F4)n
2417	Polyurethane foam; (Urethane polymers)	9009-54-5	PKL500		mg/m3	N		[Unspecified]
2418	Polyurethane prepolymer of MDI + polyether polyol	65636-36-4	N.I.S.		mg/m3	N		(C9.H6.N2.O..(C4.H8.O)n..H2.O..(C3.H6.O)n..H2.O)x
2419	Polyurethane prepolymer of MDI and PEP	68092-58-0	N.I.S.		mg/m3	N		(C15.H10.N2.O2..C9.H20.O4..C6H14.O3)n
2420	Polyvinyl alcohol	9002-89-5	PKP750		mg/m3	N		(C2.H4.O)x
2421	Polyvinyl chloride	9002-86-2	PKQ059		mg/m3	N		(C2H3Cl)Tl
2422	Potassium	7440-09-7	PKT250	39.10	mg/m3	Y	1.60	K
2423	Potassium acetate	127-08-2	PKT750	98.15	mg/m3	N	4.01	C2H3O2.K

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2410	Polypropylene glycol,chloromethyl) oxirane polymer	9072-62-2	S					1.02	D	
2411	Polypropylene glycols	25322-69-4	S						3	
2412	Polypropylene-polyethylene glycol; (Pluronic L-81)	9003-11-6							2	
2413	Polysorbate 85; (Tween 85)	9005-70-3	L	-28.9	200			1.028	1	
2414	Polystyrene resin; (Styrene polymer)	9003-53-6	S						2	
2415	Polysulfone resin	25135-51-7	S							
2416	Polytetrafluoroethylene; (Teflon)	9002-84-0	S	342				2.1-2.3	2	
2417	Polyurethane foam; (Urethane polymers)	9009-54-5	S						2	
2418	Polyurethane prepolymer of MDI + polyether polyol	65636-36-4	S							
2419	Polyurethane prepolymer of MDI and PEP	68092-58-0	L							
2420	Polyvinyl alcohol	9002-89-5	S	>200	~340			1.329	3	
2421	Polyvinyl chloride	9002-86-2	S					1.406	2	
2422	Potassium	7440-09-7	S	63	770			0.862	3	
2423	Potassium acetate	127-08-2	S	292				1.8	2	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2410	Polypropylene glycol,chloromethyl) oxirane polymer	9072-62-2					NA
2411	Polypropylene glycols	25322-69-4	01/04/99				0
2412	Polypropylene-polyethylene glycol; (Pluronic L-81)	9003-11-6	01/04/99				NA
2413	Polysorbate 85; (Tween 85)	9005-70-3					NA
2414	Polystyrene resin; (Styrene polymer)	9003-53-6	09/30/97				NA
2415	Polysulfone resin	25135-51-7					NA
2416	Polytetrafluoroethylene; (Teflon)	9002-84-0			05/19/07	RTECS	NA
2417	Polyurethane foam; (Urethane polymers)	9009-54-5	09/30/97				NA
2418	Polyurethane prepolymer of MDI + polyether polyol	65636-36-4	06/26/07		06/26/07	TSCA	NA
2419	Polyurethane prepolymer of MDI and PEP	68092-58-0					NA
2420	Polyvinyl alcohol	9002-89-5					0
2421	Polyvinyl chloride	9002-86-2	07/09/97	07/10/08	07/10/08	GOEV, RTECS.	NA
2422	Potassium	7440-09-7	09/30/97	02/27/08	02/27/08	RTECS.	3
2423	Potassium acetate	127-08-2	01/04/99				NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2424	Potassium acid fluoride	7789-29-9	PKU250	78.11	mg/m3	N	3.19	F2.H.K
2425	Potassium aluminate	12003-63-3	PLC100	98.07	mg/m3	N	4.01	K-Al-O2
2426	Potassium aluminite	z-0044	PLC100	134.10	mg/m3	N	5.48	K-Al(OH)4
2427	Potassium aluminosilicate	1327-44-2	PLC100	158.16	mg/m3	N	6.46	KAlSiO4
2428	Potassium antimonate	29638-69-5	PLC100	511.89	mg/m3	N	20.92	Sb2-K4-O7
2429	Potassium antimonate; (Potassium hexahydroxyantimonate)	12208-13-8	PLC100	262.89	mg/m3	N	10.74	K-Sb-(OH)6
2430	Potassium antimonite	z-0045	PLC100	228.88	mg/m3	N	9.35	KSb(OH)4
2431	Potassium argentate	z-0046	PLC100	180.97	mg/m3	N	7.40	K-Ag(OH)2
2432	Potassium arsenate; (Monopotassium arsenate)	7784-41-0	ARD250	180.04	mg/m3	Y	7.36	As.H2O4.K
2433	Potassium arsenite	10124-50-2	PKV500	399.65	mg/m3	Y	16.33	As.(OH)3.xK
2434	Potassium arsenite; (Arsenous acid, potassium salt)	13464-35-2	PKV500	146.02	mg/m3	N	5.97	K.As.O2
2435	Potassium beryllium oxide	z-0047	PLC100	144.20	mg/m3	Y	5.89	{Be2-K2-O3]
2436	Potassium bicarbonate	298-14-6	PKX100	100.11	mg/m3	N	4.09	KHCO3
2437	Potassium bi-iodate	13455-24-8	N.I.S.	389.90	mg/m3		15.94	H.I2.K.O6

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2424	Potassium acid fluoride	7789-29-9	S deliq	238.8 dec					3	
2425	Potassium aluminate	12003-63-3	S							
2426	Potassium aluminite	z-0044	S							
2427	Potassium aluminosilicate	1327-44-2	S							
2428	Potassium antimonate	29638-69-5	S							
2429	Potassium antimonate; (Potassium hexahydroxyantimonate)	12208-13-8								
2430	Potassium antimonite	z-0045								
2431	Potassium argentate	z-0046	S							
2432	Potassium arsenate; (Monopotassium arsenate)	7784-41-0	S	288				2.287	3	
2433	Potassium arsenite	10124-50-2	S hygrs						3	
2434	Potassium arsenite; (Arsenous acid, potassium salt)	13464-35-2	S						3	
2435	Potassium beryllium oxide	z-0047	S							
2436	Potassium bicarbonate	298-14-6	S	~100 dec				2.17	1	
2437	Potassium bi-iodate	13455-24-8	S							

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2424	Potassium acid fluoride	7789-29-9					NA
2425	Potassium aluminate	12003-63-3					NA
2426	Potassium aluminite	z-0044					
2427	Potassium aluminosilicate	1327-44-2					NA
2428	Potassium antimonate	29638-69-5					NA
2429	Potassium antimonate; (Potassium hexahydroxyantimonate)	12208-13-8					NA
2430	Potassium antimonite	z-0045					
2431	Potassium argentate	z-0046					
2432	Potassium arsenate; (Monopotassium arsenate)	7784-41-0					NA
2433	Potassium arsenite	10124-50-2					NA
2434	Potassium arsenite; (Arsenous acid, potassium salt)	13464-35-2					NA
2435	Potassium beryllium oxide	z-0047					
2436	Potassium bicarbonate	298-14-6					NA
2437	Potassium bi-iodate	13455-24-8					NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2438	Potassium bismuthate	12589-75-2	PLC100	316.10	mg/m3	N	12.92	KBi(OH)4
2439	Potassium bisulfate	7646-93-7	PKX750	136.17	mg/m3	Y	5.57	HO4S.K
2440	Potassium bromate	7758-01-2	PKY300	167.01	mg/m3	N	6.83	BrO3.K
2441	Potassium bromide	7758-02-3	PKY500	119.01	mg/m3	N	4.86	BrK
2442	Potassium cadminate	z-0048	PLC100	258.62	mg/m3	N	10.57	2K.Cd-(OH)4
2443	Potassium carbonate	584-08-7	PLA000	138.21	mg/m3	Y	5.65	CO3.2K
2444	Potassium chlorate	3811-04-9	PLA250	122.55	mg/m3	Y	5.01	ClO3.K
2445	Potassium chloride	7447-40-7	PLA500	74.55	mg/m3	Y	3.05	ClK
2446	Potassium chromate(VI)	7789-00-6	PLB250	194.20	mg/m3	Y	7.94	CrO4.2K
2447	Potassium citrate	866-84-2	PLB750	306.41	mg/m3	N	12.52	C6H5O7.3K
2448	Potassium citrate, monohydrate	6100-05-6	N.I.S. etc.	324.39	mg/m3	N	13.26	C6.H7.K3.O8
2449	Potassium columbate; (Potassium niobate)	12030-85-2	PLL250	1174.26	mg/m3	N	47.99	8K.Nb6O19
2450	Potassium cyanide	151-50-8	PLC500	65.12	mg/m3	Y	2.66	CN.K
2451	Potassium dichromate	7778-50-9	PKX250	294.20	mg/m3	Y	12.02	Cr2.K2.O7

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2438	Potassium bismuthate	12589-75-2	S							
2439	Potassium bisulfate	7646-93-7	S	214				2.24	2	
2440	Potassium bromate	7758-01-2	S	350				3.27	3	
2441	Potassium bromide	7758-02-3	S	730	1435	1	795	2.75	2	
2442	Potassium cadminate	z-0048	S						3	
2443	Potassium carbonate	584-08-7	S	901	dec			2.428	3	
2444	Potassium chlorate	3811-04-9	S	356	400 dec			2.32	3	
2445	Potassium chloride	7447-40-7	S	771	1500 subl			1.987	3	
2446	Potassium chromate(VI)	7789-00-6	S	975	dec			2.78 @ 18C	3	
2447	Potassium citrate	866-84-2	S	230 dec				1.98	3	
2448	Potassium citrate, monohydrate	6100-05-6	S							
2449	Potassium columbate; (Potassium niobate)	12030-85-2	S						3	
2450	Potassium cyanide	151-50-8	S	622.5	1625			1.52 @ 16C	3	
2451	Potassium dichromate	7778-50-9	S	398	500 dec			2.69	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2438	Potassium bismuthate	12589-75-2					NA
2439	Potassium bisulfate	7646-93-7	08/07/98				NA
2440	Potassium bromate	7758-01-2	08/07/98				NA
2441	Potassium bromide	7758-02-3	08/07/98				NA
2442	Potassium cadminate	z-0048					
2443	Potassium carbonate	584-08-7	07/09/97				NA
2444	Potassium chlorate	3811-04-9	08/07/98				NA
2445	Potassium chloride	7447-40-7	08/07/98				NA
2446	Potassium chromate(VI)	7789-00-6	08/21/96				NA
2447	Potassium citrate	866-84-2	08/07/98				NA
2448	Potassium citrate, monohydrate	6100-05-6					NA
2449	Potassium columbate; (Potassium niobate)	12030-85-2	08/07/98				NA
2450	Potassium cyanide	151-50-8	08/21/96				3
2451	Potassium dichromate	7778-50-9	07/09/97				NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2452	Potassium dideuterium phosphate	13761-79-0	N.I.S.	139.11	mg/m3	N	5.69	D2-H-O4.P..K
2453	Potassium ferricyanide	13746-66-2	PLF250	329.27	mg/m3	N	13.46	3K.Fe(CN)6
2454	Potassium ferrocyanide; (Tetrapotassium hexacyanoferrate)	13943-58-3	TEC500	368.37	mg/m3	N	15.06	4 K..Fe (C.N)6
2455	Potassium fluoride	7789-23-3	PLF500	58.10	mg/m3	N	2.37	FK
2456	Potassium fluoride dihydrate	13455-21-5	N.I.S.	94.14	mg/m3	N	3.85	F.H4.K.O2
2457	Potassium formate	590-29-4	PLG750	84.12	mg/m3	N	3.44	K.CHO2
2458	Potassium glycolate	1932-50-9	PLC100	114.13	ppm	N	4.66	C2-H4-O3.K
2459	Potassium gold cyanide	554-07-4	N.I.S., etc.	288.10	mg/m3	N	11.78	Au.K.C2.N2
2460	Potassium hexacyanoferrate(II) trihydrate; (Potassium ferricyanide trihydrate)	14459-95-1	PLH100	422.39	mg/m3	N	17.26	K4.[Fe(C.N)6]..3 H2.O
2461	Potassium hexafluorosilicate; (Silicate(2-), hexafluoro-, dipotassium)	16871-90-2	PLH750	220.29	mg/m3	N	9.00	F6.Si..2k
2462	Potassium hydride	7693-26-7	PLJ250	40.11	mg/m3	Y	1.64	H.K
2463	Potassium hydrogen lead oxide	z-0049	PLC100	279.30	mg/m3	N	11.42	KHPbO2
2464	Potassium hydrogen metasilicate	z-0051	PLC100	116.18	mg/m3	N	4.75	K.H.Si.O3
2465	Potassium hydrogen pyrophosphate	z-0050	PLC100	291.21	mg/m3	N	11.90	K3HP2O7

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2452	Potassium dideuterium phosphate	13761-79-0								
2453	Potassium ferricyanide	13746-66-2	S	70 loses water	dec			1.85	2	
2454	Potassium ferrocyanide; (Tetrapotassium hexacyanoferrate)	13943-58-3	S						1	
2455	Potassium fluoride	7789-23-3	S	859.9	1500	1	885	2.48	3	
2456	Potassium fluoride dihydrate	13455-21-5	S	41	156			2.454		
2457	Potassium formate	590-29-4	S	168	dec			1.91	3	
2458	Potassium glycolate	1932-50-9	S							110000
2459	Potassium gold cyanide	554-07-4	S							
2460	Potassium hexacyanoferrate(II) trihydrate; (Potassium ferricyanide trihydrate)	14459-95-1	S	60 dec				1.85	3	
2461	Potassium hexafluorosilicate; (Silicate(2-), hexafluoro-, dipotassium)	16871-90-2	S	dec				2.27	3	
2462	Potassium hydride	7693-26-7	S					1.43	3	
2463	Potassium hydrogen lead oxide	z-0049	S							
2464	Potassium hydrogen metasilicate	z-0051	S							
2465	Potassium hydrogen pyrophosphate	z-0050	S							

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2452	Potassium dideuterium phosphate	13761-79-0		02/27/08	02/27/08	MSDS.	NA
2453	Potassium ferricyanide	13746-66-2	08/07/98				NA
2454	Potassium ferrocyanide; (Tetrapotassium hexacyanoferrate)	13943-58-3					NA
2455	Potassium fluoride	7789-23-3	09/30/97				NA
2456	Potassium fluoride dihydrate	13455-21-5					NA
2457	Potassium formate	590-29-4					NA
2458	Potassium glycolate	1932-50-9					NA
2459	Potassium gold cyanide	554-07-4			08/26/07	GOEV	NA
2460	Potassium hexacyanoferrate(II) trihydrate; (Potassium ferricyanide trihydrate)	14459-95-1			08/26/07	GOEV	NA
2461	Potassium hexafluorosilicate; (Silicate(2-), hexafluoro-, dipotassium)	16871-90-2					NA
2462	Potassium hydride	7693-26-7					NA
2463	Potassium hydrogen lead oxide	z-0049					
2464	Potassium hydrogen metasilicate	z-0051			01/11/08	None.	
2465	Potassium hydrogen pyrophosphate	z-0050					

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2466	Potassium hydroxide	1310-58-3	PLJ500	56.11	mg/m3	Y	2.29	KOH
2467	Potassium iminodiacetate; (Potassium IDA)	z-0052	PLC100	209.00	ppm	Y	8.54	C4.H5.N.O4..2K
2468	Potassium iodate	7758-05-6	PLK250	214.00	mg/m3	N	8.75	K.I.O3
2469	Potassium iodide	7681-11-0	PLK500	166.00	mg/m3	N	6.78	I.K
2470	Potassium lanthanate	z-0053	PLC100	246.02	mg/m3	N	10.06	K.La.(O.H)4
2471	Potassium metaborate	13709-94-9	PLC100	82.92	mg/m3	N	3.39	K..B.H.O2
2472	Potassium molybdate	13446-49-6	PLC100	238.14	mg/m3	N	9.73	K2.Mo.O4
2473	Potassium nickel oxide (liquids); (Nickel potassium oxide)	50811-97-7	PLC100	168.89	mg/m3	N	6.90	K2.Ni.O2
2474	Potassium nickelate (liquids)	z-0055	PLC100	204.90	mg/m3	N	8.37	K2.Ni.(O.H)4
2475	Potassium nickelate (solids)	z-0056	PLC100	204.90	mg/m3	N	8.37	K2.Ni.(O.H)4
2476	Potassium nitrate	7757-79-1	PLL500	101.10	mg/m3	N	4.13	K.N.O3
2477	Potassium nitrilotriacetate; (Potassium NTA)	2399-85-1	TMX750	305.43	mg/m3	N	12.48	C6.H6.N.O6..3K
2478	Potassium nitrite	7758-09-0	PLM500	85.11	mg/m3	N	3.48	N.O2..K
2479	Potassium orthovanadate	14293-78-8	PLC100	232.00	mg/m3	N	9.48	K3.V.O4

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2466	Potassium hydroxide	1310-58-3	S	405	1320	1	714	2.044	3	
2467	Potassium iminodiacetate; (Potassium IDA)	z-0052								
2468	Potassium iodate	7758-05-6	S	560				3.89	3	
2469	Potassium iodide	7681-11-0	S	681	1330	1	745	3.13	3	
2470	Potassium lanthanate	z-0053	S							
2471	Potassium metaborate	13709-94-9	S							
2472	Potassium molybdate	13446-49-6	S	919				2.3		
2473	Potassium nickel oxide (liquids); (Nickel potassium oxide)	50811-97-7	L							
2474	Potassium nickelate (liquids)	z-0055	L							
2475	Potassium nickelate (solids)	z-0056	S							
2476	Potassium nitrate	7757-79-1	S	334	400 dec			2.109	3	
2477	Potassium nitrilotriacetate; (Potassium NTA)	2399-85-1							2	
2478	Potassium nitrite	7758-09-0	S	440	1000 expl			1.915	3	
2479	Potassium orthovanadate	14293-78-8								

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2466	Potassium hydroxide	1310-58-3	08/21/96		12/10/07	GOEV, RTECS	3
2467	Potassium iminodiacetate; (Potassium IDA)	z-0052					
2468	Potassium iodate	7758-05-6					NA
2469	Potassium iodide	7681-11-0	08/07/98				NA
2470	Potassium lanthanate	z-0053				Intertox	
2471	Potassium metaborate	13709-94-9			08/01/07	Intertox	
2472	Potassium molybdate	13446-49-6					NA
2473	Potassium nickel oxide (liquids); (Nickel potassium oxide)	50811-97-7					NA
2474	Potassium nickelate (liquids)	z-0055					
2475	Potassium nickelate (solids)	z-0056					
2476	Potassium nitrate	7757-79-1	09/30/97				NA
2477	Potassium nitrilotriacetate; (Potassium NTA)	2399-85-1					NA
2478	Potassium nitrite	7758-09-0	08/07/98				NA
2479	Potassium orthovanadate	14293-78-8					NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2480	Potassium oxalate	583-52-8	PLN300	168.24	mg/m3	N	6.88	C2.H2.O4..2K
2481	Potassium oxalate monohydrate	6487-48-5	N.I.S. etc.	184.23	mg/m3	N	7.53	K2.C2.O4..H2O
2482	Potassium oxide	12136-45-7	N.I.S.	94.18	mg/m3	Y	3.85	K2.O
2483	Potassium perchlorate	7778-74-7	PLO500	138.55	mg/m3	N	5.66	K..Cl.O4
2484	Potassium periodate	7790-21-8	PLO750	230.01	mg/m3	Y	9.40	I.K.O4
2485	Potassium permanganate	7722-64-7	PLP000	158.04	mg/m3	Y	6.46	K-Mn-O4
2486	Potassium persulfate; (Dipotassium persulfate)	7727-21-1	DWQ000	272.34	mg/m3	Y	11.13	H2O8S2.2K
2487	Potassium phosphate dibasic trihydrate	16788-57-1	N.I.S. etc.	228.23	mg/m3	N	9.33	K2.H.P.O4..3 H2O
2488	Potassium phosphate, dibasic	7758-11-4	PLQ400	174.18	mg/m3	N	7.12	K2HPO4
2489	Potassium phosphate, monobasic	7778-77-0	PLQ405	136.09	mg/m3	N	5.56	H2-O4-P.K
2490	Potassium phosphate, tribasic	7778-53-2	PLQ405	212.27	mg/m3	N	8.68	K3.PO4
2491	**Potassium phosphide**	**20770-41-6**	N.I.S.	148.24	ppm	N	6.06	K3.P
2492	Potassium pyrophosphate; (Tetrapotassium diphosphorate)	7320-34-5	PLR200	330.24	mg/m3	N	13.50	K4P2O7
2493	Potassium pyrosulfate; (Disulfuric acid, dipotassium salt)	7790-62-7	PLC100	256.32	mg/m3	N	10.48	H2-O7-S2.2K

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2480	Potassium oxalate	583-52-8	S					2.08	2	
2481	Potassium oxalate monohydrate	6487-48-5	S	160				2.13	2	
2482	Potassium oxide	12136-45-7	S							
2483	Potassium perchlorate	7778-74-7	S	400 dec				2.52	3	
2484	Potassium periodate	7790-21-8	S	582				3.618 @ 15C	3	
2485	Potassium permanganate	7722-64-7	S	240 dec				2.703	3	
2486	Potassium persulfate; (Dipotassium persulfate)	7727-21-1	S	100 dec				2.477	3	
2487	Potassium phosphate dibasic trihydrate	16788-57-1	S						1	
2488	Potassium phosphate, dibasic	7758-11-4	S						1	
2489	Potassium phosphate, monobasic	7778-77-0	S							
2490	Potassium phosphate, tribasic	7778-53-2	S						2	
2491	**Potassium phosphide**	**20770-41-6**	S							
2492	Potassium pyrophosphate; (Tetrapotassium diphosphorate)	7320-34-5	S	180	300			2.33	1	
2493	Potassium pyrosulfate; (Disulfuric acid, dipotassium salt)	7790-62-7	S							

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2480	Potassium oxalate	583-52-8	08/07/98		01/16/08	RTECS	NA
2481	Potassium oxalate monohydrate	6487-48-5					NA
2482	Potassium oxide	12136-45-7	10/05/07		12/10/07		
2483	Potassium perchlorate	7778-74-7					NA
2484	Potassium periodate	7790-21-8					NA
2485	Potassium permanganate	7722-64-7	08/21/96				NA
2486	Potassium persulfate; (Dipotassium persulfate)	7727-21-1	08/07/98				3
2487	Potassium phosphate dibasic trihydrate	16788-57-1					NA
2488	Potassium phosphate, dibasic	7758-11-4	08/07/98				NA
2489	Potassium phosphate, monobasic	7778-77-0	01/04/99				NA
2490	Potassium phosphate, tribasic	7778-53-2	03/01/00				NA
2491	**Potassium phosphide**	**20770-41-6**	01/03/08	07/19/08	01/03/08	EPA	
2492	Potassium pyrophosphate; (Tetrapotassium diphosphorate)	7320-34-5					NA
2493	Potassium pyrosulfate; (Disulfuric acid, dipotassium salt)	7790-62-7	08/07/98				NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2494	Potassium pyrosulfite; (Potassium metabisulfite)	16731-55-8	PLR250	22.32	mg/m3	N	0.91225	O5.S2..K2
2495	Potassium selenate	7790-59-2	PLR750	221.14	mg/m3	N	9.04	K2-Se-O4
2496	Potassium selenite	10431-47-7	SBO100	205.16	mg/m3	Y	8.39	K2-Se-O3
2497	Potassium silicate; (Silicic acid, potassium salt)	1312-76-1	N.I.S.		mg/m3	N		K2.Si3.05 to K2.Si3.O7
2498	Potassium silver cyanide	506-61-6	PLS250	199.01	mg/m3	Y	8.13	C2AgN2.K
2499	Potassium stannate	12142-33-5	PLC100	244.90	mg/m3	N	10.01	K2-Sn-O3
2500	Potassium strontium phosphate	53201-92-6	PLC100	221.68	mg/m3	N	9.06	K.Sr.P.O4
2501	Potassium sulfate (2:1); (Dipotassium sulfate)	7778-80-5	PLT000	174.26	mg/m3	N	7.12	O4S.2K
2502	Potassium sulfite	10117-38-1	PLT500	158.26	mg/m3	N	6.47	O3.S.2K
2503	Potassium tellurate	15571-91-2	PLC100	269.78	mg/m3	N	11.03	2K-Te-O4
2504	Potassium tellurite	7790-58-1	PLU000	253.78	mg/m3	N	10.37	2K-Te-O3
2505	Potassium tetrafluoroborate(1-)	14075-53-7	PKY000	125.91	mg/m3	N	5.15	B.F4..K
2506	Potassium tetraphenylborate	3244-41-5	PLC100	358.31	mg/m3	N	14.64	KB(C6H5)4
2507	Potassium thiocyanate	333-20-0	PLV000	97.18	mg/m3	N	3.97	CNS.K

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2494	Potassium pyrosulfite; (Potassium metabisulfite)	16731-55-8	S	150 decom				2.3	2	
2495	Potassium selenate	7790-59-2	S	1000				3.07	3	
2496	Potassium selenite	10431-47-7	S						3	
2497	Potassium silicate; (Silicic acid, potassium salt)	1312-76-1	S	1015				2.456		
2498	Potassium silver cyanide	506-61-6	S			0.00001	25	2.36	3	
2499	Potassium stannate	12142-33-5	S							
2500	Potassium strontium phosphate	53201-92-6	S							
2501	Potassium sulfate (2:1); (Dipotassium sulfate)	7778-80-5	S	1067	1689			2.66	2	
2502	Potassium sulfite	10117-38-1	S						D	
2503	Potassium tellurate	15571-91-2	S							
2504	Potassium tellurite	7790-58-1	S						3	
2505	Potassium tetrafluoroborate(1-)	14075-53-7	S	570				2.506	3	
2506	Potassium tetraphenylborate	3244-41-5	S							
2507	Potassium thiocyanate	333-20-0	S	173	500 dec			1.89	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2494	Potassium pyrosulfite; (Potassium metabisulfite)	16731-55-8	06/24/08		06/24/08	RTECS, HSDB, SAX.	
2495	Potassium selenate	7790-59-2					NA
2496	Potassium selenite	10431-47-7					NA
2497	Potassium silicate; (Silicic acid, potassium salt)	1312-76-1					NA
2498	Potassium silver cyanide	506-61-6					NA
2499	Potassium stannate	12142-33-5					NA
2500	Potassium strontium phosphate	53201-92-6					NA
2501	Potassium sulfate (2:1); (Dipotassium sulfate)	7778-80-5					NA
2502	Potassium sulfite	10117-38-1	08/07/98	06/24/08	06/24/08		NA
2503	Potassium tellurate	15571-91-2					NA
2504	Potassium tellurite	7790-58-1					NA
2505	Potassium tetrafluoroborate(1-)	14075-53-7					NA
2506	Potassium tetraphenylborate	3244-41-5	08/21/96				NA
2507	Potassium thiocyanate	333-20-0	08/07/98				NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2508	Potassium trihydrogen silicate	z-0058	PLC100	134.20	mg/m3	N	5.48	K-H3-Si-O4
2509	Potassium tungstate (liquids)	7790-60-5a	PLC100	326.03	mg/m3	Y	13.33	K2-W-O4
2510	Potassium tungstate (solids)	7790-60-5b	PLC100	326.03	mg/m3	Y	13.33	K2-W-O4
2511	Potassium uranyl carbonate	z-0059	PLC100	408.22	mg/m3	Y	16.68	K2-UO2-CO3
2512	Potassium zirconate; (Dipotassium zirconium oxide)	12030-98-7	PLC100	217.41	mg/m3	Y	8.89	2K-Zr-O3
2513	Potassium-tert-butoxide; (tert-Butyl alcohol, potassium derivitave)	865-47-4	PKY750	112.20	mg/m3	Y	4.59	K..C4H9.O
2514	Praseodymium	7440-10-0	PLX500	140.91	mg/m3	N	5.76	Pr
2515	Praseodymium nitrate	10361-80-5	PLY250	326.94	mg/m3	N	13.36	N3O9.Pr
2516	Praseodymium oxide	12036-32-7	N.I.S.	329.81	mg/m3	N	13.48	Pr2-O3
2517	Praseodymium(III,IV) oxide	12037-29-5	N.I.S.	1021.44	mg/m3	N	41.75	Pr6.O11
2518	Promecarb; (m-Cym-5-yl methylcarbamate)	2631-37-0	CQI500	207.30	mg/m3	N	8.47	C12H17NO2
2519	Propanamine, 1-; (Propylamine)	107-10-8	PND250	59.30	ppm	Y	2.42	C3H9N
2520	**Propane**	**74-98-6**	PMJ750	44.11	ppm	N	1.80	C3H8
2521	Propane sultone, 1,3-	1120-71-4	PML400	122.15	mg/m3	Y	4.99	C3H6O3S

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2508	Potassium trihydrogen silicate	z-0058	S							
2509	Potassium tungstate (liquids)	7790-60-5a	L	921				3.12		
2510	Potassium tungstate (solids)	7790-60-5b	S hygr	921				3.12		
2511	Potassium uranyl carbonate	z-0059	S							
2512	Potassium zirconate; (Dipotassium zirconium oxide)	12030-98-7	S							
2513	Potassium-tert-butoxide; (tert-Butyl alcohol, potassium derivitave)	865-47-4	S		257 dec	0.13	220	0.82	3	
2514	Praseodymium	7440-10-0	S	935	3512			6.772	3	
2515	Praseodymium nitrate	10361-80-5	S						3	
2516	Praseodymium oxide	12036-32-7	S	2300				6.9		
2517	Praseodymium(III,IV) oxide	12037-29-5	S							
2518	Promecarb; (m-Cym-5-yl methylcarbamate)	2631-37-0	S	87-88	345	0.00003	25		3	
2519	Propanamine, 1-; (Propylamine)	107-10-8	L	-83	48-49	248	20	0.7191	3	20000
2520	**Propane**	**74-98-6**	G	-187.7	-42.1	760		0.5853	3	21000
2521	Propane sultone, 1,3-	1120-71-4	S	31	155-157 @14mm			1.392	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2508	Potassium trihydrogen silicate	z-0058					
2509	Potassium tungstate (liquids)	7790-60-5a					
2510	Potassium tungstate (solids)	7790-60-5b					
2511	Potassium uranyl carbonate	z-0059					
2512	Potassium zirconate; (Dipotassium zirconium oxide)	12030-98-7					NA
2513	Potassium-tert-butoxide; (tert-Butyl alcohol, potassium derivitave)	865-47-4					NA
2514	Praseodymium	7440-10-0					NA
2515	Praseodymium nitrate	10361-80-5	09/30/97				NA
2516	Praseodymium oxide	12036-32-7					NA
2517	Praseodymium(III,IV) oxide	12037-29-5					NA
2518	Promecarb; (m-Cym-5-yl methylcarbamate)	2631-37-0					NA
2519	Propanamine, 1-; (Propylamine)	107-10-8					3
2520	**Propane**	**74-98-6**	08/21/96	02/05/08	08/16/07	GOEV, EPA.	2
2521	Propane sultone, 1,3-	1120-71-4	09/30/97				NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2522	Propanediamine, 1,2-	78-90-0	PMK250	74.15	mg/m3	Y	3.03	C3H10N2
2523	Propanediamine, 1,3-	109-76-2	PMK500	74.15	ppm	Y	3.03	C3H10N2
2524	**Propanedinitrile; (Malononitrile)**	**109-77-3**	MAO250	66.07	ppm	Y	2.70	C3H2N2
2525	Propanediol, 1,3-	504-63-2	PML250	76.11	mg/m3	N	3.11	C3.H8.O2
2526	Propanediol, 2,2-dimethyl-, 1,3-	126-30-7	DTG400	104.17	ppm	Y	4.26	C5.H12.O2
2527	Propanethiol	107-03-9	PML500	76.17	ppm	Y	3.11	C3.H8.S
2528	Propanol, zirconium(4+) salt, 1-	23519-77-9	N.I.S.	327.57	mg/m3	N	13.39	C12.H24.O4..Zr
2529	**Propargyl alcohol**	**107-19-7**	PMN450	56.07	ppm	Y	2.29	C3.H4.O
2530	Propargyl bromide	106-96-7	PMN500	118.97	mg/m3	Y	4.86	Br.C3H3
2531	Propiolactone, b-	57-57-8	PMT100	72.07	ppm	N	2.95	C3H4O2
2532	**Propionaldehyde**	**123-38-6**	PMT750	58.09	ppm	Y	2.37	C3H6O3S
2533	Propionic acid	79-09-4	PMU750	74.09	ppm	Y	3.03	C3H6O2
2534	Propionic acid, 3-ethoxy-, ethyl ester	763-69-9	EJV500	146.21	mg/m3	Y	5.98	C7H14O3
2535	Propionic acid, sodium salt	137-40-6	SJL500	96.07	mg/m3	N	3.93	C3.H5.O2..Na

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2522	Propanediamine, 1,2-	78-90-0	L		118.9			0.9	3	
2523	Propanediamine, 1,3-	109-76-2	L	-12	135-136			0.8881	3	
2524	**Propanedinitrile; (Malononitrile)**	**109-77-3**	L	30.5	220	11	99	1.049 @ 34C	3	
2525	Propanediol, 1,3-	504-63-2	L		210-211			1.0536	1	
2526	Propanediol, 2,2-dimethyl-, 1,3-	126-30-7	S	129	206			1.06	2	11000
2527	Propanethiol	107-03-9	L	-113.3	67-68	154.2	25	0.8411 @ 20C	3	
2528	Propanol, zirconium(4+) salt, 1-	23519-77-9	S							
2529	**Propargyl alcohol**	**107-19-7**	L	-50	114.5	11.6	20	0.9715	3	
2530	Propargyl bromide	106-96-7	L	-61.07	88-90			1.579 @ 19C	3	30000
2531	Propiolactone, b-	57-57-8	L	-33.4	162 dec			1.145	3	29000
2532	**Propionaldehyde**	**123-38-6**	L	-81	48			0.807	3	23000
2533	Propionic acid	79-09-4	L	-21.5	141.1	10	39.7	0.99815	3	21000
2534	Propionic acid, 3-ethoxy-, ethyl ester	763-69-9	L	-100	170.1			0.9496	1	
2535	Propionic acid, sodium salt	137-40-6	S hygr						2	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2522	Propanediamine, 1,2-	78-90-0	01/04/99				3
2523	Propanediamine, 1,3-	109-76-2	01/04/99				3
2524	**Propanedinitrile; (Malononitrile)**	**109-77-3**		02/05/08	08/16/07	GOEV, EPA.	NA
2525	Propanediol, 1,3-	504-63-2					1
2526	Propanediol, 2,2-dimethyl-, 1,3-	126-30-7					1
2527	Propanethiol	107-03-9					NA
2528	Propanol, zirconium(4+) salt, 1-	23519-77-9					NA
2529	**Propargyl alcohol**	**107-19-7**	08/21/96	02/05/08	12/28/07	GOEV, EPA	4
2530	Propargyl bromide	106-96-7					3
2531	Propiolactone, b-	57-57-8	09/30/97				0
2532	**Propionaldehyde**	**123-38-6**	09/30/97	02/05/08	08/16/07	GOEV, EPA.	2
2533	Propionic acid	79-09-4	08/07/98				3
2534	Propionic acid, 3-ethoxy-, ethyl ester	763-69-9	01/04/99				NA
2535	Propionic acid, sodium salt	137-40-6					NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2536	Propionic anhydride	123-62-6	PMV500	130.16	mg/m3	Y	5.32	C6H10O3
2537	**Propionitrile; (Propiononitrile)**	**107-12-0**	PMV750	55.09	ppm	Y	2.25	C3H5N
2538	Propionyl chloride	79-03-8	PMW500	92.53	ppm	Y	3.78	CH3CH2CO.Cl
2539	Propoxur	114-26-1	PMY300	209.27	mg/m3	N	8.55	C11H15NO3
2540	Propoxypropanol, , n-; (Propylene glycol monpropyl ether)	30136-13-1	PNB750	228.20	ppm	Y	9.33	C6.H14.O2
2541	Propyl acetate, n-	109-60-4	PNC250	102.15	ppm	N	4.18	C5.H10.O2
2542	Propyl alcohol, n-; (n-Propanol)	71-23-8	PND000	60.11	ppm	Y	2.46	C3H8O
2543	**Propyl chloroformate; (Propyl chlorocarbonate)**	**109-61-5**	PNH000	122.56	ppm	N	5.01	C4H7ClO2
2544	Propyl nitrate	627-13-4	PNQ500	105.11	ppm	Y	4.30	C3H7NO3
2545	Propyl-1-butanamine, N-	20193-21-9	N.I.S.	115.22	mg/m3	N	4.71	C7-H17-N
2546	Propylbenzene, n-; (Isocumene)	103-65-1	IKG000	120.21	ppm	N	4.91	C6H5CH2 CH2CH3
2547	Propylene carbonate, 1,2-	108-32-7	CBW500	102.10	mg/m3	Y	4.17	C4H6O3
2548	**Propylene glycol dinitrate**	**6423-43-4**	PNL000	166.11	ppm	Y	6.79	C3H6N2O6
2549	Propylene glycol monomethyl ether acetate; (1-Methoxypropyl-2-acetate)	108-65-6	PNL265	132.18	ppm	N	5.40	C6.H12.O3

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2536	Propionic anhydride	123-62-6	L	-45	167	1	20.6	1.012	2	14800
2537	**Propionitrile; (Propiononitrile)**	**107-12-0**	L	-103.5	97.1	35	20	0.783	3	31000
2538	Propionyl chloride	79-03-8	L	-94	80			1.065	3	
2539	Propoxur	114-26-1	S	84-87					3	
2540	Propoxypropanol, , n-; (Propylene glycol monpropyl ether)	30136-13-1	L	-80	149.8			0.8865	3	
2541	Propyl acetate, n-	109-60-4	L	-93	101.5	35.9	25	0.836 @ 20C	3	17000
2542	Propyl alcohol, n-; (n-Propanol)	71-23-8	L	-127	97.19	10	14.7	0.8044	3	21000
2543	**Propyl chloroformate; (Propyl chlorocarbonate)**	**109-61-5**	L		114-115 @768			1.09	3	
2544	Propyl nitrate	627-13-4	L	<-101	110.5			1.054 @ 20C	3	20000
2545	Propyl-1-butanamine, N-	20193-21-9								
2546	Propylbenzene, n-; (Isocumene)	103-65-1	L	-92.2	159.2	10	43.4	0.862	3	8000
2547	Propylene carbonate, 1,2-	108-32-7	L	-48.8	242.1	0.03		1.2069	1	
2548	**Propylene glycol dinitrate**	**6423-43-4**	L	-7.8		0.07	22	1.23 @ 25C	3	
2549	Propylene glycol monomethyl ether acetate; (1-Methoxypropyl-2-acetate)	108-65-6	L		150	3.7	20	0.969 @ 20C	2	13000

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2536	Propionic anhydride	123-62-6					3
2537	**Propionitrile; (Propiononitrile)**	**107-12-0**	01/04/99	02/05/08	08/16/07	GOEV, EPA.	4
2538	Propionyl chloride	79-03-8					3
2539	Propoxur	114-26-1	09/30/97				NA
2540	Propoxypropanol, , n-; (Propylene glycol monpropyl ether)	30136-13-1	12/14/07		12/14/07	RTECS, SAX	
2541	Propyl acetate, n-	109-60-4					1
2542	Propyl alcohol, n-; (n-Propanol)	71-23-8	01/04/99	02/27/08	02/27/08	GOEV, RTECS, NIOSH.	1
2543	**Propyl chloroformate; (Propyl chlorocarbonate)**	**109-61-5**	03/01/00		06/27/08	EPA.	NA
2544	Propyl nitrate	627-13-4		02/27/08	02/27/08	GOEV, RTECS, NIOSH.	2
2545	Propyl-1-butanamine, N-	20193-21-9					NA
2546	Propylbenzene, n-; (Isocumene)	103-65-1	09/30/97				1
2547	Propylene carbonate, 1,2-	108-32-7	09/30/97				1
2548	**Propylene glycol dinitrate**	**6423-43-4**		07/18/08	12/20/07	EPA, GOEV	NA
2549	Propylene glycol monomethyl ether acetate; (1-Methoxypropyl-2-acetate)	108-65-6		02/27/08		AIHA, RTECS.	1

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2550	Propylene glycol monomethyl ether; (Ucar Triol HG-170)	107-98-2	UBA000	90.10	ppm	Y	3.68	C4H10O2
2551	Propylene glycol mono-n-butyl ether; (3-butoxy-1-propanol)	10215-33-5	BPS500	132.23	ppm	Y	5.40	C7H16O2
2552	Propylene glycol; (1,2-Propanediol)	57-55-6	PML000	76.11	mg/m3	Y	3.11	C3H8O2
2553	**Propylene oxide; (Methyl ethylene oxide)**	**75-56-9**	PNL600	58.09	ppm	Y	2.37	C3H6O
2554	Propylene; (1-Propene)	115-07-1	PMO500	42.09	ppm	N	1.72	H2C=CHCH3
2555	**Propyleneimine, 1,2-**	**75-55-8**	PNL400	57.11	ppm	Y	2.33	C3H7N
2556	**Propyltrichlorosilane**	**141-57-1**	PNX250	177.54	ppm	Y	7.26	C3.H7.Cl3.Si
2557	Prothoate; (Isopropyl diethyldithiophosphorylacetamide)	2275-18-5	IOT000	285.39	mg/m3	N	11.66	C9H20NO3PS2
2558	Pump oil	64742-65-0	MQV825		mg/m3	N		
2559	Pyrene	129-00-0	PON250	202.26	mg/m3	Y	8.27	C16H10
2560	Pyridine	110-86-1	POP250	79.11	ppm	Y	3.23	C6H5N
2561	Pyridinecarboxaldehyde, 4-; (Isonicotinaldehyde)	872-85-5	IKZ100	107.12	mg/m3	N	4.38	C6.H5.N.O
2562	Pyridine-d5	7291-22-7	N.I.S. etc.	84.13	ppm	N	3.44	C5.D5.N
2563	Pyriminil; (Pyriminyl)	53558-25-1	PPP750	272.29	mg/m3	N	11.13	C13H12N4O3

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2550	Propylene glycol monomethyl ether; (Ucar Triol HG-170)	107-98-2	L	-96.7	120			0.9234	1	16000
2551	Propylene glycol mono-n-butyl ether; (3-butoxy-1-propanol)	10215-33-5							3	
2552	Propylene glycol; (1,2-Propanediol)	57-55-6	L	-59	188.2	0.08		1.0362	2	24000
2553	**Propylene oxide; (Methyl ethylene oxide)**	**75-56-9**	L	-112.2	34.4	445	20	0.8304	3	19000
2554	Propylene; (1-Propene)	115-07-1	G/L	-185	-47.7	7600	19.8	0.581 @ 0C	3	20000
2555	**Propyleneimine, 1,2-**	**75-55-8**	L		66-67			1.41	3	
2556	**Propyltrichlorosilane**	**141-57-1**	L		123.5	28.8	20	1.195 @ 20C	3	
2557	Prothoate; (Isopropyl diethyldithiophosphorylacetamide)	2275-18-5	S	28.5	330	0.0001	25		3	
2558	Pump oil	64742-65-0	L		>315			0.6-0.9	3	
2559	Pyrene	129-00-0	S	149-150	404			1.271	3	
2560	Pyridine	110-86-1	L	-42.2	115.6	20	25	0.982	3	17000
2561	Pyridinecarboxaldehyde, 4-; (Isonicotinaldehyde)	872-85-5	L	12	71-73			1.137	2	
2562	Pyridine-d5	7291-22-7	L	-42	114.4			1.05	2	18000
2563	Pyriminil; (Pyriminyl)	53558-25-1	S	223-225		0.00001	25		3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2550	Propylene glycol monomethyl ether; (Ucar Triol HG-170)	107-98-2	08/21/96				1
2551	Propylene glycol mono-n-butyl ether; (3-butoxy-1-propanol)	10215-33-5	07/09/97				NA
2552	Propylene glycol; (1,2-Propanediol)	57-55-6	08/21/96				0
2553	**Propylene oxide; (Methyl ethylene oxide)**	**75-56-9**	08/21/96	02/05/08	08/16/07	GOEV, EPA.	3
2554	Propylene; (1-Propene)	115-07-1					1
2555	**Propyleneimine, 1,2-**	**75-55-8**	09/30/97	02/05/08	08/16/07	GOEV, EPA.	NA
2556	**Propyltrichlorosilane**	**141-57-1**	07/02/08	07/18/08	07/02/08	EPA HSDB.	3
2557	Prothoate; (Isopropyl diethyldithiophosphorylacetamide)	2275-18-5					NA
2558	Pump oil	64742-65-0					NA
2559	Pyrene	129-00-0	09/30/97				NA
2560	Pyridine	110-86-1	08/21/96				3
2561	Pyridinecarboxaldehyde, 4-; (Isonicotinaldehyde)	872-85-5					NA
2562	Pyridine-d5	7291-22-7					NA
2563	Pyriminil; (Pyriminyl)	53558-25-1					NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2564	Pyrogallic acid	87-66-1	PPQ500	126.12	mg/m3	Y	5.15	C6.H6.O3
2565	Pyromellitic acid	89-05-4	PPQ630	254.16	mg/m3	N	10.39	C10H6O8
2566	Pyroxylin; (Cellulose tetranitrate)	9004-70-0	CCU250	504.30	mg/m3	N	20.61	C12H16 (ONO2)4O6
2567	Pyrrole; (Imidole)	109-97-7	PPS250	67.10	ppm	N	2.74	C4.H5.N
2568	Pyrrolidine	123-75-1	PPS500	71.14	mg/m3	N	2.91	C4H9N
2569	Pyrrolidinone, 2-	616-45-5	PPT500	85.12	ppm	Y	3.48	C4-H7-N-O
2570	Pyruvate kinase	9001-59-6	N.I.S.		mg/m3	N		
2571	Quaternary ammonium compounds, benzyl-C12-C16-alkyldimethyl, chlorides	68424-85-1	QAT520		mg/m3	Y		
2572	Quinhydrone	106-34-3	QFJ000	220.24	mg/m3	N	9.00	(C6H6O2)2
2573	Quinoline	91-22-5	QMJ000	129.17	ppm	Y	5.28	C9H7N
2574	Quinolinol, 8-	148-24-3	QPA000	145.17	mg/m3	N	5.93	C9H7NO
2575	Resorcinol	108-46-3	REA000	110.12	ppm	Y	4.50	C6H6O2
2576	Rexyn I-300; (Ethylene glycol dimethacrylate polymer with styrene, chloromethylated, trimethylamine-quanternized, hydroxide)	69011-49-0	N.I.S.	361.46	mg/m3	N	14.77	(C10.H14.O4..C8.H8..C3.H9.N)x
2577	Rhenium hexafluoride	10049-17-9	N.I.S.	300.20	mg/m3	N	12.27	Re.F6

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2564	Pyrogallic acid	87-66-1	S	131-133	309	10	167.7	1.453 @ 4C	3	
2565	Pyromellitic acid	89-05-4	S	257-265				1.79	3	
2566	Pyroxylin; (Cellulose tetranitrate)	9004-70-0	Samor					1.66	3	19000
2567	Pyrrole; (Imidole)	109-97-7	L	-23.4	129.7	8.35	25	0.9698 @ 20C	3	
2568	Pyrrolidine	123-75-1	L	-63	88.5-89	128	39	0.8618	3	29000
2569	Pyrrolidinone, 2-	616-45-5	S	24.6	245	0.00949	25	1.116	1	
2570	Pyruvate kinase	9001-59-6	S							
2571	Quaternary ammonium compounds, benzyl-C12-C16-alkyldimethyl, chlorides	68424-85-1	S					0.96	2	
2572	Quinhydrone	106-34-3	S	171				1.4	3	
2573	Quinoline	91-22-5	L	-14.5	237.7	1	59.7	1.09	3	
2574	Quinolinol, 8-	148-24-3	S	76	267				3	
2575	Resorcinol	108-46-3	S	110	280.5	1	108.4	1.285 @ 15C	3	14000
2576	Rexyn I-300; (Ethylene glycol dimethacrylate polymer with styrene, chloromethylated, trimethylamine-quanternized, hydroxide)	69011-49-0	S					1.2		
2577	Rhenium hexafluoride	10049-17-9	L	18.5	33.6			4.06 (cry)		

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2564	Pyrogallic acid	87-66-1					NA
2565	Pyromellitic acid	89-05-4	08/07/98				NA
2566	Pyroxylin; (Cellulose tetranitrate)	9004-70-0	08/07/98				2
2567	Pyrrole; (Imidole)	109-97-7					2
2568	Pyrrolidine	123-75-1	01/04/99				2
2569	Pyrrolidinone, 2-	616-45-5					3
2570	Pyruvate kinase	9001-59-6					NA
2571	Quaternary ammonium compounds, benzyl-C12-C16-alkyldimethyl, chlorides	68424-85-1					NA
2572	Quinhydrone	106-34-3	01/04/99				NA
2573	Quinoline	91-22-5	09/30/97				3
2574	Quinolinol, 8-	148-24-3	08/07/98				NA
2575	Resorcinol	108-46-3	08/21/96				3
2576	Rexyn I-300; (Ethylene glycol dimethacrylate polymer with styrene, chloromethylated, trimethylamine-quanternized, hydroxide)	69011-49-0					NA
2577	Rhenium hexafluoride	10049-17-9			05/19/07	GOEV 2007, NIOSH.	NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2578	Rhenium oxide; (Rhenium(VII) oxide)	1314-68-7	N.I.S.	484.41	mg/m3	N	19.80	Re2-O7
2579	Rhodium	7440-16-6	RHF000	102.91	mg/m3	N	4.21	Rh
2580	Rhodium oxide (liquids); (Rhodium(IV) oxide)	12137-27-8a	N.I.S.	134.91	mg/m3	Y	5.51	Rh-O2
2581	Rhodium oxide (solids); (Rhodium((IV) oxide)	12137-27-8b	N.I.S.	134.91	mg/m3	N	5.51	Rh-O2
2582	Rhodium(III) hydroxide (liquids)	21656-02-0a	N.I.S.	153.93	mg/m3	Y	6.29	Rh-(OH)3
2583	Rhodium(III) hydroxide (solids)	21656-02-0b	N.I.S.	153.93	mg/m3	N	6.29	Rh-(OH)3
2584	Rhodium(III) oxide (solids)	12036-35-0	N.I.S.	253.81	mg/m3	N	10.37	Rh2-O3
2585	Riboflavine	83-88-5	RIK000	376.37	mg/m3	N	15.38	C17.H20.N4.O6
2586	Ribonuclease T1	9026-12-4	N.I.S.		mg/m3	N		
2587	Ricin	9009-86-3	RJK000	65000	mg/m3	Y	2656.64	[Glycoprotein]
2588	Rosin core solder decomposition products; (Colophony Gum)	8050-09-7	RNU100		mg/m3	N		
2589	Rotenone	83-79-4	RNZ000	394.45	mg/m3	N	16.12	C23H22O6
2590	Rubber solvent; (Naphtha (petroleum) light aliphatic)	64742-89-8	ROU000	97.26	ppm	Y	3.98	C5-C9 petroleum cut
2591	Rubidium	7440-17-7	RPA000	85.47	mg/m3	Y	3.49	Rb

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2578	Rhenium oxide; (Rhenium(VII) oxide)	1314-68-7	S	297	360			6.1		
2579	Rhodium	7440-16-6	S	1966	3727			12.41	3	
2580	Rhodium oxide (liquids); (Rhodium(IV) oxide)	12137-27-8a	L					7.2		
2581	Rhodium oxide (solids); (Rhodium((IV) oxide)	12137-27-8b	S					7.2		
2582	Rhodium(III) hydroxide (liquids)	21656-02-0a	L sol							
2583	Rhodium(III) hydroxide (solids)	21656-02-0b	S is							
2584	Rhodium(III) oxide (solids)	12036-35-0	S is	1100 dec				8.2		
2585	Riboflavine	83-88-5	S	282	dec				3	
2586	Ribonuclease T1	9026-12-4	S							
2587	Ricin	9009-86-3	S						3	
2588	Rosin core solder decomposition products; (Colophony Gum)	8050-09-7	S							
2589	Rotenone	83-79-4	S	163	210-220 @ 5 mm	8.00E-04	20	1.27 @ 20C	3	
2590	Rubber solvent; (Naphtha (petroleum) light aliphatic)	64742-89-8	L		38-93			0.6	3	
2591	Rubidium	7440-17-7	S	39.5	688			1.532 @ 20C	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2578	Rhenium oxide; (Rhenium(VII) oxide)	1314-68-7					NA
2579	Rhodium	7440-16-6	01/04/99				NA
2580	Rhodium oxide (liquids); (Rhodium(IV) oxide)	12137-27-8a					
2581	Rhodium oxide (solids); (Rhodium((IV) oxide)	12137-27-8b					
2582	Rhodium(III) hydroxide (liquids)	21656-02-0a					
2583	Rhodium(III) hydroxide (solids)	21656-02-0b					
2584	Rhodium(III) oxide (solids)	12036-35-0					NA
2585	Riboflavine	83-88-5					NA
2586	Ribonuclease T1	9026-12-4					NA
2587	Ricin	9009-86-3					NA
2588	Rosin core solder decomposition products; (Colophony Gum)	8050-09-7					NA
2589	Rotenone	83-79-4	09/30/97	02/08/08	02/08/08	GOEV, RTECS, HSDB.	NA
2590	Rubber solvent; (Naphtha (petroleum) light aliphatic)	64742-89-8		03/06/08	02/29/08	GOEV, SAX. RTECS,	NA
2591	Rubidium	7440-17-7					NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2592	Rubidium bromide	7789-39-1	N.I.S.	165.37	mg/m3	N	6.76	RbBr
2593	Rubidium chloride	7791-11-9	RPF000	120.92	mg/m3	N	4.94	ClRb
2594	Rubidium hydroxide	1310-82-3	RPZ000	102.48	mg/m3	Y	4.19	Rb-OH
2595	Rubidium nitrate	13126-12-0	N.I.S.	147.48	mg/m3	N	6.03	Rb.NO3
2596	Ruthenium	7440-18-8	RRU000	101.07	mg/m3	N	4.13	Ru
2597	Ruthenium trichloride	10049-08-8	RRZ000	207.42	mg/m3	N	8.48	ClRu
2598	Ruthenium(IV) oxide	12036-10-1	RSF875	133.07	mg/m3	N	5.44	Ru-O2
2599	Safrol; (5-(2-Propenyl)-1,3-benzodioxole)	94-59-7	SAD000	162.20	mg/m3	Y	6.63	C10H10O2
2600	Salcomine; (bis(Salicylaldehyde)ethylenediimine	14167-18-1	BLH250	325.25	mg/m3	N	13.29	C16H14CoN2O2
2601	Salicylaldehyde	90-02-8	SAG000	122.13	mg/m3	Y	4.99	C7.H6.O2
2602	Salicylic acid	69-72-7	SAI000	138.13	mg/m3	Y	5.65	C7H6O3
2603	Salicylic acid, monoammonium salt	528-94-9	ANT600	155.17	mg/m3	N	6.34	C7.H5.O3..H4.N
2604	Salicylic acid, phenyl ester	118-55-8	PGG750	214.23	mg/m3	N	8.76	C13.H10.O3
2605	Samarium	7440-19-9	SAQ500	150.36	mg/m3	N	6.15	Sm

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2592	Rubidium bromide	7789-39-1	S	693	1340			3.35		
2593	Rubidium chloride	7791-11-9	S	718	1390			2.76	2	
2594	Rubidium hydroxide	1310-82-3	V	382				3 .203 @ 11C	2	
2595	Rubidium nitrate	13126-12-0	S							
2596	Ruthenium	7440-18-8	S	2310	4150			12.45	3	
2597	Ruthenium trichloride	10049-08-8	S	500 dec				3.11	3	
2598	Ruthenium(IV) oxide	12036-10-1	V					7.05	3	
2599	Safrol; (5-(2-Propenyl)-1,3-benzodioxole)	94-59-7	L	11	232.5	1	63.8	1.0960 @ 20C	3	
2600	Salcomine; (bis(Salicylaldehyde)ethylenediimine	14167-18-1	S			0.00001	25		3	
2601	Salicylaldehyde	90-02-8	L	-7	197	0.593	25	1.167	3	
2602	Salicylic acid	69-72-7	S	158.3	211 @ 20mm			1.443	3	11000
2603	Salicylic acid, monoammonium salt	528-94-9	S						3	
2604	Salicylic acid, phenyl ester	118-55-8	S	43	172-173 @ 12mm			1.250 @ 20C	2	
2605	Samarium	7440-19-9	S	1072	1778			7.536	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2592	Rubidium bromide	7789-39-1	08/07/98				NA
2593	Rubidium chloride	7791-11-9	08/07/98				NA
2594	Rubidium hydroxide	1310-82-3					NA
2595	Rubidium nitrate	13126-12-0	01/04/99				NA
2596	Ruthenium	7440-18-8	09/30/97				NA
2597	Ruthenium trichloride	10049-08-8	08/07/98				NA
2598	Ruthenium(IV) oxide	12036-10-1					NA
2599	Safrol; (5-(2-Propenyl)-1,3-benzodioxole)	94-59-7					1
2600	Salcomine; (bis(Salicylaldehyde)ethylenediimine	14167-18-1					NA
2601	Salicylaldehyde	90-02-8					0
2602	Salicylic acid	69-72-7	08/07/98				1
2603	Salicylic acid, monoammonium salt	528-94-9					NA
2604	Salicylic acid, phenyl ester	118-55-8					NA
2605	Samarium	7440-19-9					NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2606	Samarium nitrate	10361-83-8	SAT200	336.38	mg/m3	N	13.75	SmN3O9
2607	Samarium(ii) iodide solution	32248-43-4	N.I.S. etc.	404.17	mg/m3	N	16.52	Sm.I2
2608	Samarium(III) chloride hexahydrate	13465-55-9	N.I.S., etc.	364.81	mg/m3	Y	14.91	Cl3.H12.O6.Sm
2609	Samarium(III) oxide	12060-58-1	N.I.S.	348.72	mg/m3	N	14.25	Sm2-O3
2610	Saxitoxin	35523-89-8	SBA600	299.34	mg/m3	N	12.23	C10.H17.N7.O4
2611	Scandium	7440-20-2	SBB500	44.96	mg/m3	N	1.84	Sc
2612	Scandium oxide	12060-08-1	N.I.S.	137.91	mg/m3	N	5.64	Sc2-O3
2613	Sec-butyllithium	598-30-1	N.I.S.	64.06	ppm	N	2.62	C4.H9..Li
2614	Selenious acid	7783-00-8	SBO000	128.98	mg/m3	N	5.27	H2-Se-O3
2615	Selenium	7782-49-2	SBO500	78.96	mg/m3	N	3.23	Se
2616	Selenium dioxide	7446-08-4	SBQ500	110.96	mg/m3	N	4.54	O2Se
2617	**Selenium hexafluoride**	**7783-79-1**	SBS000	192.96	ppm	N	7.89	F6Se
2618	Selenium monosulfide	7446-34-6	SBT000	111.02	mg/m3	N	4.54	SeS
2619	Selenium oxychloride	7791-23-3	SBT500	165.86	mg/m3	N	6.78	Cl2OSe

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2606	Samarium nitrate	10361-83-8	S						3	
2607	Samarium(ii) iodide solution	32248-43-4	S					0.922	2	
2608	Samarium(III) chloride hexahydrate	13465-55-9	S	110				2.38		
2609	Samarium(III) oxide	12060-58-1	S					8.347		
2610	Saxitoxin	35523-89-8	S						3	
2611	Scandium	7440-20-2	S	1541	2836			2.989		
2612	Scandium oxide	12060-08-1	S	2485				3.864		
2613	Sec-butyllithium	598-30-1	L	17.22				0.769	3	
2614	Selenious acid	7783-00-8	V	70 dec		2	15	3.004 @ 15C	3	
2615	Selenium	7782-49-2	S	217	685	1	356	4.26 - 4.81	3	
2616	Selenium dioxide	7446-08-4	S	340-350	subl	1	157	3.95	3	
2617	**Selenium hexafluoride**	**7783-79-1**	G	-46.6	-34 subl			3.27	3	
2618	Selenium monosulfide	7446-34-6	S	111.03	118dec			3.056 @ 0C	3	
2619	Selenium oxychloride	7791-23-3	L	10.9	176.4	2.9	25	2.42 @ 22C	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2606	Samarium nitrate	10361-83-8	09/30/97				NA
2607	Samarium(ii) iodide solution	32248-43-4					NA
2608	Samarium(III) chloride hexahydrate	13465-55-9					NA
2609	Samarium(III) oxide	12060-58-1					NA
2610	Saxitoxin	35523-89-8					NA
2611	Scandium	7440-20-2					NA
2612	Scandium oxide	12060-08-1					NA
2613	Sec-butyllithium	598-30-1					NA
2614	Selenious acid	7783-00-8	08/21/96				NA
2615	Selenium	7782-49-2	08/21/96				NA
2616	Selenium dioxide	7446-08-4	09/30/97				NA
2617	**Selenium hexafluoride**	**7783-79-1**	09/30/97	07/18/08	07/18/08	GOEV, EPA.	NA
2618	Selenium monosulfide	7446-34-6	01/04/99				NA
2619	Selenium oxychloride	7791-23-3					NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2620	Selenium sulfide; (Selenium(IV) disulfide (1:2))	7488-56-4	SBR000	143.08	mg/m3	N	5.85	SeS2
2621	Semicarbazide hydrochloride	563-41-7	SBW500	111.55	mg/m3	N	4.56	CH5N3O.ClH
2622	Sephacryl s-200, superfine	65546-95-4	N.I.S., etc.		mg/m3	N		
2623	Sephacryl s-300	82785-74-8	N.I.S. etc.		mg/m3	N		
2624	Sephadex G-25	9041-35-4	N.I.S. etc.		mg/m3	N		
2625	Sepharose cl-4b	61970-08-9	N.I.S. etc.		mg/m3	N		
2626	**Silane; (Silicon tetrahydride)**	**7803-62-5**	SDH575	32.13	ppm	N	1.31	H4.Si
2627	Silica amorphous hydrated	7631-86-9	SCI000	60.09	mg/m3	N	2.46	Si.O2
2628	Silica gel	63231-67-4	N.I.S.		mg/m3	N		Si.O2
2629	Silica gel dessicant	1343-98-2	N.I.S.		mg/m3	N		Si.O2
2630	Silica gel, amorphous synthetic	112926-00-8	N.I.S.		mg/m3	N		Si.O2
2631	Silica, amorphous fume	69012-64-2	SCH001		mg/m3	N		Si.O2
2632	Silica, amorphous fumed	112945-52-5	SCH002	60.09	mg/m3	N	2.46	Si.O2
2633	Silica, crystalline-quartz; (Silicon dioxide)	14808-60-7	SCJ500	60.09	mg/m3	N	2.46	Si.O2

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2620	Selenium sulfide; (Selenium(IV) disulfide (1:2))	7488-56-4	S	<100					3	
2621	Semicarbazide hydrochloride	563-41-7	S/L	176 decom					3	
2622	Sephacryl s-200, superfine	65546-95-4								
2623	Sephacryl s-300	82785-74-8								
2624	Sephadex G-25	9041-35-4	S							
2625	Sepharose cl-4b	61970-08-9	S							
2626	**Silane; (Silicon tetrahydride)**	**7803-62-5**	G	-185	-112			0.68 @ 185C	3	13700
2627	Silica amorphous hydrated	7631-86-9	S	1716-1736	2230				1	
2628	Silica gel	63231-67-4	S	1610	2503	10	1732	2.2		
2629	Silica gel dessicant	1343-98-2	S coll.	1610	2503 @ 20C	10	1732	2.2		
2630	Silica gel, amorphous synthetic	112926-00-8	S							
2631	Silica, amorphous fume	69012-64-2		3110	4046			2.2	1	
2632	Silica, amorphous fumed	112945-52-5	S pwdr						2 1	
2633	Silica, crystalline-quartz; (Silicon dioxide)	14808-60-7	S	1710	2230			2.6	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2620	Selenium sulfide; (Selenium(IV) disulfide (1:2))	7488-56-4	01/04/99				NA
2621	Semicarbazide hydrochloride	563-41-7					NA
2622	Sephacryl s-200, superfine	65546-95-4					NA
2623	Sephacryl s-300	82785-74-8					NA
2624	Sephadex G-25	9041-35-4					NA
2625	Sepharose cl-4b	61970-08-9					NA
2626	**Silane; (Silicon tetrahydride)**	**7803-62-5**	08/07/98	07/19/08	01/02/08	GOEV, EPA.	1
2627	Silica amorphous hydrated	7631-86-9	09/30/97	02/27/08	02/27/08	GOEV, RTECS, NIOSH.	NA
2628	Silica gel	63231-67-4					NA
2629	Silica gel dessicant	1343-98-2		02/27/08	02/27/08	GOEV, RTECS.	NA
2630	Silica gel, amorphous synthetic	112926-00-8		07/10/08	07/10/08	GOEV, RTECS.	NA
2631	Silica, amorphous fume	69012-64-2	03/01/00	07/10/08	07/10/08	GOEV, HSDB.	NA
2632	Silica, amorphous fumed	112945-52-5	09/30/97				NA
2633	Silica, crystalline-quartz; (Silicon dioxide)	14808-60-7	08/21/96	02/27/08		GOEV,	NIOSH.

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2634	Silicic acid	7699-41-4	SCL000	78.10	mg/m3	Y	3.19	Si-H2-O3
2635	Silicic acid, aluminum calcium sodium salt	1344-01-0	N.I.S.	135.00	mg/m3	N	5.52	Si.OH.Al.Ca.Na ?
2636	Silicic acid, sodium salt; (Sodium silicate)	1344-09-8	SCN700	184.04	mg/m3	Y	7.52	Na4.O4.Si
2637	Silicofluoric acid; (Fluorosilicic acid)	16961-83-4	SCO500	144.11	mg/m3	N	5.89	H2F.6Si
2638	Silicon	7440-21-3	SCP000	28.09	mg/m3	N	1.15	Si
2639	Silicon carbide	409-21-2	SCQ000	40.10	mg/m3	N	1.64	Csi
2640	Silicon nitride	12033-89-5	N.I.S.	140.28	mg/m3	N	5.73	Si3.N4
2641	**Silicon tetrafluoride; (Tetrafluorosilane)**	**7783-61-1**	SDF650	104.09	ppm	N	4.25	F4Si
2642	Silicon(II) oxide; (Silicon oxide)	10097-28-6	SDH000	44.09	mg/m3	N	1.80	Osi
2643	Siloprene k 1000	63394-02-5	PJR250/ SPB000		mg/m3	N		
2644	Siloxanes and silicones, -di-Me,-reaction products with silica; (Hydrophobic silicon dioxide, amorphous)	67762-90-7	SCR400		mg/m3	N		Cab-0-sil-N70-TS-
2645	Siloxanes and silicones, methyl phenyl; (Silicone fluid, high temp)	63148-58-3	SDF000	75.00	mg/m3	Y	3.07	-R2.SI-O
2646	Silver	7440-22-4	SDI500	107.87	mg/m3	N	4.41	Ag
2647	Silver carbonate; (Silver(I) carbonate)	534-16-7	SDN200	275.75	mg/m3	N	11.27	Ag2-CO3

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2634	Silicic acid	7699-41-4	S						3	
2635	Silicic acid, aluminum calcium sodium salt	1344-01-0	S react							
2636	Silicic acid, sodium salt; (Sodium silicate)	1344-09-8	S		102	18			2	
2637	Silicofluoric acid; (Fluorosilicic acid)	16961-83-4	L		dec				3	
2638	Silicon	7440-21-3	S	1410	2355	1	1724	2.42	3	
2639	Silicon carbide	409-21-2	S	2600	subl			3.17	2	
2640	Silicon nitride	12033-89-5	S	1900				3.17		
2641	**Silicon tetrafluoride; (Tetrafluorosilane)**	**7783-61-1**	G	-77					3	
2642	Silicon(II) oxide; (Silicon oxide)	10097-28-6	S	>1702	1880			2.15	3	
2643	Siloprene k 1000	63394-02-5	S							
2644	Siloxanes and silicones, -di-Me,-reaction products with silica; (Hydrophobic silicon dioxide, amorphous)	67762-90-7	S		> 140 @ 0.002 mm	< 5	20	1.8		
2645	Siloxanes and silicones, methyl phenyl; (Silicone fluid, high temp)	63148-58-3	L							
2646	Silver	7440-22-4	S	961.6	2212			10.5	2	
2647	Silver carbonate; (Silver(I) carbonate)	534-16-7	S	218				6.077	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2634	Silicic acid	7699-41-4					NA
2635	Silicic acid, aluminum calcium sodium salt	1344-01-0					NA
2636	Silicic acid, sodium salt; (Sodium silicate)	1344-09-8					NA
2637	Silicofluoric acid; (Fluorosilicic acid)	16961-83-4	08/21/96				NA
2638	Silicon	7440-21-3	09/30/97	07/10/08	07/10/08	GOEV, RTECS.	NA
2639	Silicon carbide	409-21-2	09/30/97				NA
2640	Silicon nitride	12033-89-5					NA
2641	**Silicon tetrafluoride; (Tetrafluorosilane)**	**7783-61-1**		07/18/08	07/01/08	GOEV, EPA.	3
2642	Silicon(II) oxide; (Silicon oxide)	10097-28-6	08/07/98				NA
2643	Siloprene k 1000	63394-02-5					NA
2644	Siloxanes and silicones, -di-Me,-reaction products with silica; (Hydrophobic silicon dioxide, amorphous)	67762-90-7					NA
2645	Siloxanes and silicones, methyl phenyl; (Silicone fluid, high temp)	63148-58-3	11/15/96				NA
2646	Silver	7440-22-4	08/21/96				NA
2647	Silver carbonate; (Silver(I) carbonate)	534-16-7					NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2648	Silver chloride	7783-90-6	SDO500	143.32	mg/m3	N	5.86	AgCl
2649	Silver cyanide	506-64-9	SDP000	133.89	mg/m3	Y	5.47	Ag.CN
2650	Silver hydroxide	12673-77-7	SDO500	124.88	mg/m3	N	5.10	Ag..OH
2651	Silver nitrate	7761-88-8	SDS000	169.88	mg/m3	Y	6.94	Ag..N.O3
2652	Silver nitrite; (Silver(I) nitrite)	7783-99-5	SDO500	153.87	mg/m3	N	6.29	Ag-NO2
2653	Silver oxide	20667-12-3	SDU500	231.74	mg/m3	N	9.47	Ag2O
2654	Soda lime	8006-28-8	SEE000		mg/m3	Y		Ca.O + >4% Na.OH
2655	Sodium	7440-23-5	SEE500	22.99	mg/m3	Y	0.94	Na
2656	Sodium acetate	127-09-3	SEG500	82.04	mg/m3	N	3.35	C2.H3.O2..Na
2657	Sodium acetate trihydrate; (Acetic acid, sodium salt trihydrate)	6131-90-4	N.I.S.	82.04	mg/m3	N	3.35	Na.C2.H4.O2..3(H2O)
2658	Sodium aluminate anhydrous; (Aluminum sodium dioxide anhydrous)	11138-49-1	AHG000	118.00	mg/m3	Y	4.82	Al.H4.O4.Na
2659	Sodium aluminate; (Aluminum sodium dioxide)	1302-42-7	N.I.S.	81.97	mg/m3	Y	3.35	Al.O2..Na
2660	Sodium aluminosilicate	1344-00-9	SEM000	142.05	mg/m3		5.81	Na.Al.Si.O4
2661	Sodium aluminum hydride	13770-96-2	SEM500	54.01	mg/m3	N	2.21	Al.H4..Na

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2648	Silver chloride	7783-90-6	S	445	1550	1	136	5.6 @ 20C		
2649	Silver cyanide	506-64-9	S	320 dec				3.95	3	
2650	Silver hydroxide	12673-77-7	S							
2651	Silver nitrate	7761-88-8	S	212	444 dec			4.352 @ 19C	3	
2652	Silver nitrite; (Silver(I) nitrite)	7783-99-5	S							
2653	Silver oxide	20667-12-3	S	300 dec				7.22	3	
2654	Soda lime	8006-28-8	S							
2655	Sodium	7440-23-5	S	97.8	881.4	1.2	400	0.971	3	
2656	Sodium acetate	127-09-3	S	324				1.528	3	
2657	Sodium acetate trihydrate; (Acetic acid, sodium salt trihydrate)	6131-90-4	S hygr	324	dec			1.528		
2658	Sodium aluminate anhydrous; (Aluminum sodium dioxide anhydrous)	11138-49-1	S hygr	1650				1.55	2	
2659	Sodium aluminate; (Aluminum sodium dioxide)	1302-42-7	S hygr	1650				4.63		
2660	Sodium aluminosilicate	1344-00-9	S						1	
2661	Sodium aluminum hydride	13770-96-2	S	183				1.24	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2648	Silver chloride	7783-90-6	11/15/96				NA
2649	Silver cyanide	506-64-9	08/21/96				NA
2650	Silver hydroxide	12673-77-7					NA
2651	Silver nitrate	7761-88-8	08/21/96		01/11/08	GOEV, RTECS, NIOSH.	NA
2652	Silver nitrite; (Silver(I) nitrite)	7783-99-5					NA
2653	Silver oxide	20667-12-3	11/15/96				NA
2654	Soda lime	8006-28-8					NA
2655	Sodium	7440-23-5	07/09/97	02/27/08	08/16/07	Na.OH limits.	3
2656	Sodium acetate	127-09-3	09/30/97				NA
2657	Sodium acetate trihydrate; (Acetic acid, sodium salt trihydrate)	6131-90-4					NA
2658	Sodium aluminate anhydrous; (Aluminum sodium dioxide anhydrous)	11138-49-1	01/04/99	06/05/08	06/05/08	GOEV, HSDB, MSDS.	3
2659	Sodium aluminate; (Aluminum sodium dioxide)	1302-42-7		06/05/08	06/05/08	GOEV, HSDB, MSDS.	3
2660	Sodium aluminosilicate	1344-00-9					NA
2661	Sodium aluminum hydride	13770-96-2	06/26/07		06/26/07	RTECS	NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2662	Sodium aluminum silicate	73987-94-7	SFZ000	410.94	mg/m3	N	16.80	Al.12(Na.Si.O4)
2663	Sodium antimonate; (Antimonic acid, sodium salt)	11112-10-0	AQB250	246.79	mg/m3	N	10.09	Na.Sb.O3
2664	Sodium antimonate; (Sodium hexahydroxoantimonate)	33908-66-6	AQB250	192.74	mg/m3	N	7.88	Na.Sb.(OH)6
2665	Sodium antimonite	z-0061	SFZ000	212.78	mg/m3	N	8.70	Na.Sb.(OH)4
2666	Sodium argentate	z-0062	SFZ000	164.87	mg/m3	N	6.74	Na.Ag.(OH)2
2667	Sodium arsenate	7631-89-2	ARD750	202.94	mg/m3	Y	8.29	AsH3O4.7Na
2668	Sodium arsenite	7784-46-5	SEY500	129.91	mg/m3	Y	5.31	NaAsO2
2669	Sodium azide	26628-22-8	SFA000	65.02	mg/m3	Y	2.66	N3Na
2670	Sodium beryllium oxide	z-0063	SFZ000	112.00	mg/m3	Y	4.58	Na2-Be2-O3
2671	Sodium bicarbonate	144-55-8	SFC500	84.01	mg/m3	N	3.43	NaHCO3
2672	Sodium bifluoride; (Sodium hydrogen fluoride)	1333-83-1	SHQ500	62.00	mg/m3	Y	2.53	F2.Hna
2673	Sodium bis(2-methoxyethoxy) aluminum hydride	22722-98-1	SGK800	202.16	mg/m3	N	8.26	C6.H16.Al.Na.O4
2674	Sodium bismuthate	12232-99-4	SFD000	279.97	mg/m3	N	11.44	NaBi(OH)4 or BiNaO3
2675	Sodium bisulfate monohydrate	10034-88-5	N.I.S.	138.08	mg/m3	N	5.64	Na.H.O4.S..H2O

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2662	Sodium aluminum silicate	73987-94-7	S							
2663	Sodium antimonate; (Antimonic acid, sodium salt)	11112-10-0	S						D	
2664	Sodium antimonate; (Sodium hexahydroxoantimonate)	33908-66-6	S						D	
2665	Sodium antimonite	z-0061	S							
2666	Sodium argentate	z-0062	S							
2667	Sodium arsenate	7631-89-2	S	86					3	
2668	Sodium arsenite	7784-46-5	S					1.87	3	
2669	Sodium azide	26628-22-8	S	dec				1.846	3	
2670	Sodium beryllium oxide	z-0063	S							
2671	Sodium bicarbonate	144-55-8	S		dec			2.159	1	
2672	Sodium bifluoride; (Sodium hydrogen fluoride)	1333-83-1	S	decom				2.08	3	
2673	Sodium bis(2-methoxyethoxy) aluminum hydride	22722-98-1	S		396-402			1.036	2	
2674	Sodium bismuthate	12232-99-4	S							
2675	Sodium bisulfate monohydrate	10034-88-5	S					2.1		

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2662	Sodium aluminum silicate	73987-94-7					NA
2663	Sodium antimonate; (Antimonic acid, sodium salt)	11112-10-0					NA
2664	Sodium antimonate; (Sodium hexahydroxoantimonate)	33908-66-6					NA
2665	Sodium antimonite	z-0061					
2666	Sodium argentate	z-0062					
2667	Sodium arsenate	7631-89-2	11/15/96				NA
2668	Sodium arsenite	7784-46-5	11/15/96				NA
2669	Sodium azide	26628-22-8	11/15/96				NA
2670	Sodium beryllium oxide	z-0063					
2671	Sodium bicarbonate	144-55-8	07/09/97				NA
2672	Sodium bifluoride; (Sodium hydrogen fluoride)	1333-83-1					NA
2673	Sodium bis(2-methoxyethoxy) aluminum hydride	22722-98-1					NA
2674	Sodium bismuthate	12232-99-4					NA
2675	Sodium bisulfate monohydrate	10034-88-5					NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2676	Sodium bisulfate; (Sodium acid sulfate)	7681-38-1	SEG800	120.06	mg/m3	Y	4.91	HO4S.Na
2677	Sodium bisulfite	7631-90-5	SFE000	104.06	mg/m3	N	4.25	HO3S.Na
2678	Sodium borate decahydrate	1303-96-4	SFE500	381.40	mg/m3	Y	15.59	Na2.B4.O7.. 10 H2O
2679	Sodium borate; (Disodium tetraborate; Borates, tetrasodium salts)	1330-43-4	DXG035	201.22	mg/m3	Y	8.22	B4.O7..2Na
2680	Sodium borohydride	16940-66-2	SFF500	37.84	mg/m3	Y	1.55	BH4.Na
2681	Sodium bromate	7789-38-0	SFG000	150.90	mg/m3	N	6.17	BrO3.Na
2682	Sodium bromide	7647-15-6	SFG500	102.90	mg/m3	N	4.21	BrNa
2683	Sodium butyl (2-ethylhexyl)phosphate	z-0064	SFZ000	288.30	mg/m3	N	11.78	[Unknown]
2684	Sodium butyl butylphosphonate	z-0065	SFZ000	232.19	mg/m3	N	9.49	[Unknown]
2685	Sodium cacodylate; (Sodium dimethylarsinate)	124-65-2	HKC500	159.99	mg/m3	N	6.54	AsO2C2H6.Na
2686	Sodium cadminate	z-0066	SFZ000	226.42	mg/m3	N	9.25	Na2-Cd-(OH)4
2687	Sodium carbonate	497-19-8	SFO000	105.99	mg/m3	N	4.33	Na2CO3
2688	Sodium carbonate monohydrate	5968-11-6	SFZ000	124.01	mg/m3	Y	5.07	Na2CO3.H2O
2689	Sodium carboxymethyl cellulose; (Dowex 11)	9004-32-4	SFO500		mg/m3	N		

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2676	Sodium bisulfate; (Sodium acid sulfate)	7681-38-1	S	>315dec				2.43513	2	
2677	Sodium bisulfite	7631-90-5	S	dec				1.48	3	
2678	Sodium borate decahydrate	1303-96-4	S	75-320	320			1.73	3	
2679	Sodium borate; (Disodium tetraborate; Borates, tetrasodium salts)	1330-43-4	S	741	1575			2.367	D	
2680	Sodium borohydride	16940-66-2	S	497 dec				1.07	3	
2681	Sodium bromate	7789-38-0	S	381				3.339	3	
2682	Sodium bromide	7647-15-6	S	747	1390			3.21	2	
2683	Sodium butyl (2-ethylhexyl)phosphate	z-0064								
2684	Sodium butyl butylphosphonate	z-0065								
2685	Sodium cacodylate; (Sodium dimethylarsinate)	124-65-2	S	200					3	
2686	Sodium cadminate	z-0066	S						2	
2687	Sodium carbonate	497-19-8	S hygr	851	dec			2.509 @ 0C	3	
2688	Sodium carbonate monohydrate	5968-11-6	S	851				2.53	2	
2689	Sodium carboxymethyl cellulose; (Dowex 11)	9004-32-4	S						2	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2676	Sodium bisulfate; (Sodium acid sulfate)	7681-38-1	08/07/98				NA
2677	Sodium bisulfite	7631-90-5	09/30/97				2
2678	Sodium borate decahydrate	1303-96-4	08/21/96		06/18/07	GOEV 2007, RTECS.	NA
2679	Sodium borate; (Disodium tetraborate; Borates, tetrasodium salts)	1330-43-4	08/21/96	02/28/08	06/18/07	GOEV, NIOSH, RTECS.	NA
2680	Sodium borohydride	16940-66-2	08/07/98				NA
2681	Sodium bromate	7789-38-0	08/07/98				NA
2682	Sodium bromide	7647-15-6					NA
2683	Sodium butyl (2-ethylhexyl)phosphate	z-0064					
2684	Sodium butyl butylphosphonate	z-0065					
2685	Sodium cacodylate; (Sodium dimethylarsinate)	124-65-2					NA
2686	Sodium cadminate	z-0066					
2687	Sodium carbonate	497-19-8	08/21/96				NA
2688	Sodium carbonate monohydrate	5968-11-6					NA
2689	Sodium carboxymethyl cellulose; (Dowex 11)	9004-32-4					NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2690	Sodium chloride	7647-14-5	SFT000	58.44	mg/m3	Y	2.39	ClNa
2691	Sodium chlorite	7758-19-2	SFT500	90.44	mg/m3	N	3.70	Na.Cl.O2
2692	Sodium chromate decahydrate	13517-17-4	SFW500	342.18	mg/m3	Y	13.99	2Na.Cr.O4..10H2O
2693	Sodium chromate tetrahydrate	10034-82-9	N.I.S.	303.03	mg/m3	Y	12.39	2Na..Cr.O4..4H2O
2694	Sodium chromate(VI); (Disodium chromate)	7775-11-3	DXC200	161.98	mg/m3	Y	6.62	2Na.Cr.O4
2695	Sodium citrate; (Monosodium citrate)	18996-35-5	MRL000	214.12	mg/m3	N	8.75	C6H7O7.Na
2696	Sodium cobaltinitrite	13600-98-1	SFX750	403.96	mg/m3	N	16.51	CoN6O12.3Na
2697	Sodium cyanide	143-33-9	SGA500	49.01	mg/m3	Y	2.00	Na.CN
2698	Sodium cyclopentadienylide; (Cyclopentadienyl sodium)	4984-82-1	CPV500	88.08	mg/m3	N	3.60	C5.H5.Na
2699	Sodium deuteroxide	14014-06-3	N.I.S. etc.	41.00	mg/m3	Y	1.68	Na.O.D
2700	Sodium dichromate dihydrate	7789-12-0	SGI500	298.02	mg/m3	N	12.18	Cr2.Na2.O7. 2H2O
2701	Sodium dichromate; (Disodium dichromate)	10588-01-9	SGI000	261.98	mg/m3	Y	10.71	2Na.Cr2.O7
2702	Sodium diethyldithiocarbamate trihydrate	20624-25-3	SJG500	225.33	mg/m3	N	9.21	C5.H10.N.S2..Na.3H2.0
2703	Sodium diethyldithiocarbamate; (Diethyldithiocarbamic acid, sodium salt)	148-18-5	SGJ000	171.27	mg/m3	N	7.00	C5H10NS2.Na

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2690	Sodium chloride	7647-14-5	S	801	1413	1	865	2.165	2	
2691	Sodium chlorite	7758-19-2	S	257	180-200 dec			2.468	3	
2692	Sodium chromate decahydrate	13517-17-4	S						3	
2693	Sodium chromate tetrahydrate	10034-82-9	S	dec.						
2694	Sodium chromate(VI); (Disodium chromate)	7775-11-3	S	792				2.72	3	
2695	Sodium citrate; (Monosodium citrate)	18996-35-5	S						3	
2696	Sodium cobaltinitrite	13600-98-1	S						D	
2697	Sodium cyanide	143-33-9	S	563.7	1496	1	817		3	
2698	Sodium cyclopentadienylide; (Cyclopentadienyl sodium)	4984-82-1	S						3	
2699	Sodium deuteroxide	14014-06-3	S							
2700	Sodium dichromate dihydrate	7789-12-0	S	loses H2O at	400 dec			2.35 @ 13C	3	
2701	Sodium dichromate; (Disodium dichromate)	10588-01-9	S	356.7	400 dec			2.35 @ 13C	3	
2702	Sodium diethyldithiocarbamate trihydrate	20624-25-3	S	95				1.1 @ 20C	2	
2703	Sodium diethyldithiocarbamate; (Diethyldithiocarbamic acid, sodium salt)	148-18-5	S	95				1.1 @ 20C	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2690	Sodium chloride	7647-14-5	09/30/97				NA
2691	Sodium chlorite	7758-19-2					NA
2692	Sodium chromate decahydrate	13517-17-4	08/21/96				NA
2693	Sodium chromate tetrahydrate	10034-82-9					NA
2694	Sodium chromate(VI); (Disodium chromate)	7775-11-3	11/15/96				NA
2695	Sodium citrate; (Monosodium citrate)	18996-35-5	08/07/98				NA
2696	Sodium cobaltinitrite	13600-98-1	08/07/98				NA
2697	Sodium cyanide	143-33-9	08/21/96				3
2698	Sodium cyclopentadienylide; (Cyclopentadienyl sodium)	4984-82-1					NA
2699	Sodium deuteroxide	14014-06-3					NA
2700	Sodium dichromate dihydrate	7789-12-0					NA
2701	Sodium dichromate; (Disodium dichromate)	10588-01-9	08/21/96				NA
2702	Sodium diethyldithiocarbamate trihydrate	20624-25-3					NA
2703	Sodium diethyldithiocarbamate; (Diethyldithiocarbamic acid, sodium salt)	148-18-5					NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2704	Sodium dihydrogen phosphate; (Sodium phosphate monobasic, monohydrate)	10049-21-5	N.I.S.	119.88	mg/m3	Y	4.90	Na.H3.O4.P
2705	Sodium dithionate dihydrate	7631-94-9	N.I.S. etc.	242.14	mg/m3	N	9.90	Na2.S2.O6..2H2O
2706	Sodium dodecylbenzenesulfonate; (Dodecyl benzene sodium sulfonate)	25155-30-0	DXW200	348.52	mg/m3	Y	14.24	C18H29O3S. Na
2707	Sodium ethoxide	141-52-6	SGR000	68.05	mg/m3	Y	2.78	C2.H5.O.Na
2708	Sodium ferrocyanide	13601-19-9	SFZ000	303.93	mg/m3	N	12.42	C6-Fe-N6.4Na
2709	Sodium fluoride	7681-49-4	SHF500	41.99	mg/m3	Y	1.72	FNa
2710	Sodium formate	141-53-7	SHJ000	68.01	mg/m3	N	2.78	CHO2.Na
2711	Sodium gluconate	527-07-1	SHK800	219.17	mg/m3	N	8.96	C31H47O6.Na
2712	Sodium glycinate	6000-44-8	GHG000	97.06	ppm	Y	3.97	Na-C2-H4-N-O2
2713	Sodium glycolate; (Sodium hydroxyacetate)	2836-32-0	SHT000	98.04	ppm	Y	4.01	Na-C2-H3-O3
2714	Sodium hexamethyldisilazane; (Sodium bis(trimethylsilyl)amide)	1070-89-9	N.I.S.	184.38	mg/m3	N	7.54	C6.H9.N.Si2..Na
2715	Sodium hydride	7646-69-7	SHO500	24.00	mg/m3	Y	0.98	Na-H
2716	Sodium hydrogen lead oxide	z-0067	SFZ000	263.20	mg/m3	N	10.76	Na-H-Pb-O2
2717	Sodium hydrogen metasilicate	z-0068	SFZ000	100.08	mg/m3	N	4.09	Na-H-Si-O3

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2704	Sodium dihydrogen phosphate; (Sodium phosphate monobasic, monohydrate)	10049-21-5	S		204 dec			2.04		
2705	Sodium dithionate dihydrate	7631-94-9	S	110	267 dec			2.19		
2706	Sodium dodecylbenzenesulfonate; (Dodecyl benzene sodium sulfonate)	25155-30-0	S						3	
2707	Sodium ethoxide	141-52-6	S hygr	260 dec		< 0.1	20		3	
2708	Sodium ferrocyanide	13601-19-9	S					1.458		
2709	Sodium fluoride	7681-49-4	S	996	1695	1	1077	2.558 @ 41C	3	
2710	Sodium formate	141-53-7	S del	259-261				1.92	2	
2711	Sodium gluconate	527-07-1	S hygr						3	
2712	Sodium glycinate	6000-44-8	S						2	
2713	Sodium glycolate; (Sodium hydroxyacetate)	2836-32-0	S						1	66000
2714	Sodium hexamethyldisilazane; (Sodium bis(trimethylsilyl)amide)	1070-89-9	S							
2715	Sodium hydride	7646-69-7	S	800 decom				0.9	3	
2716	Sodium hydrogen lead oxide	z-0067	S							
2717	Sodium hydrogen metasilicate	z-0068	S							

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2704	Sodium dihydrogen phosphate; (Sodium phosphate monobasic, monohydrate)	10049-21-5					NA
2705	Sodium dithionate dihydrate	7631-94-9					NA
2706	Sodium dodecylbenzenesulfonate; (Dodecyl benzene sodium sulfonate)	25155-30-0	01/04/99				NA
2707	Sodium ethoxide	141-52-6		06/05/08		SAX, HSDB, TSCA.	NA
2708	Sodium ferrocyanide	13601-19-9	01/04/99				NA
2709	Sodium fluoride	7681-49-4	09/30/97				3
2710	Sodium formate	141-53-7	09/30/97				NA
2711	Sodium gluconate	527-07-1					NA
2712	Sodium glycinate	6000-44-8					NA
2713	Sodium glycolate; (Sodium hydroxyacetate)	2836-32-0					NA
2714	Sodium hexamethyldisilazane; (Sodium bis(trimethylsilyl)amide)	1070-89-9					NA
2715	Sodium hydride	7646-69-7					3
2716	Sodium hydrogen lead oxide	z-0067					
2717	Sodium hydrogen metasilicate	z-0068					

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2718	Sodium hydrogen pyrophosphate	z-0069	SFZ000	243.92	mg/m3	N	9.97	Na3-H-P2-O7
2719	Sodium hydrosulfite	7775-14-6	SHR500	174.10	mg/m3	N	7.12	O4S2.2Na
2720	**Sodium hydroxide**	**1310-73-2**	SHS500	40.00	mg/m3	Y	1.63	Na.OH
2721	Sodium hypobromite	13824-96-9	N.I.S., etc.	118.89	mg/m3	N	4.86	Na.Br. O
2722	Sodium hypochlorite	7681-52-9	SHU500	75.45	mg/m3	Y	3.08	ClHO.Na
2723	Sodium hypochlorite pentahydrate	10022-70-5	SHU525	165.55	mg/m3	Y	6.77	ClHO.Na.5H2O
2724	Sodium hypophosphite	7681-53-0	SHV000	87.98	mg/m3	N	3.60	H2.O2.P..Na
2725	Sodium hypophosphite hydrate	123333-67-5	N.I.S. etc.		mg/m3	N		Na..H2.O2.P-hydrate
2726	Sodium iodate	7681-55-2	SHV500	197.89	mg/m3	Y	8.09	Na-I-O3
2727	Sodium iodide	7681-82-5	SHW000	149.89	mg/m3	Y	6.13	Na-I
2728	Sodium isothiocyanate; (Thiocyanic acid, sodium salt)	540-72-7	SIA500	81.07	mg/m3	N	3.31	Na..C.N.S
2729	Sodium lactate; (Lactic acid, monosodium salt)	72-17-3	LAM000	112.07	mg/m3	N	4.58	C3.H5.O3..Na
2730	Sodium lanthanate	z-0070	SFZ000	229.92	mg/m3	N	9.40	Na-La-(OH)4
2731	Sodium lauryl sulfate	151-21-3	SIB600	289.43	mg/m3	Y	11.83	C12H26O4S. Na

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2718	Sodium hydrogen pyrophosphate	z-0069	S							
2719	Sodium hydrosulfite	7775-14-6	S	55 dec					3	
2720	**Sodium hydroxide**	**1310-73-2**	S del	318.3	1390	1	739	2.13	3	
2721	Sodium hypobromite	13824-96-9	S							
2722	Sodium hypochlorite	7681-52-9	S	18					3	
2723	Sodium hypochlorite pentahydrate	10022-70-5	L					1.21 @ 20C	1	
2724	Sodium hypophosphite	7681-53-0	S						3	
2725	Sodium hypophosphite hydrate	123333-67-5	S hygr	dec					3	
2726	Sodium iodate	7681-55-2	S	dec				4.277 @ 17.5C	3	
2727	Sodium iodide	7681-82-5	S	660	1304	1	767	3.667	2	
2728	Sodium isothiocyanate; (Thiocyanic acid, sodium salt)	540-72-7	S deliq	287					3	
2729	Sodium lactate; (Lactic acid, monosodium salt)	72-17-3	S hygr						2	
2730	Sodium lanthanate	z-0070	S							
2731	Sodium lauryl sulfate	151-21-3	S						3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2718	Sodium hydrogen pyrophosphate	z-0069					
2719	Sodium hydrosulfite	7775-14-6	08/07/98				NA
2720	**Sodium hydroxide**	**1310-73-2**	10/31/92				NA
2721	Sodium hypobromite	13824-96-9	10/24/07		10/24/07		
2722	Sodium hypochlorite	7681-52-9	08/07/98		08/16/07	AIHA.	3
2723	Sodium hypochlorite pentahydrate	10022-70-5					NA
2724	Sodium hypophosphite	7681-53-0					NA
2725	Sodium hypophosphite hydrate	123333-67-5					NA
2726	Sodium iodate	7681-55-2					NA
2727	Sodium iodide	7681-82-5	08/07/98				NA
2728	Sodium isothiocyanate; (Thiocyanic acid, sodium salt)	540-72-7					NA
2729	Sodium lactate; (Lactic acid, monosodium salt)	72-17-3					NA
2730	Sodium lanthanate	z-0070					
2731	Sodium lauryl sulfate	151-21-3	09/30/97				NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2732	Sodium metabisulfite	7681-57-4	SII000	190.10	mg/m3	N	7.77	Na2.S2O5
2733	Sodium metaborate	7775-19-1	SII100	66.81	mg/m3	N	2.73	Na-B-H-O2
2734	Sodium metaphosphate	10361-03-2	SII500	101.96	mg/m3	N	4.17	NaP.O3
2735	Sodium metasilicate nonahydrate	13517-24-3	SFZ000	286.22	mg/m3	N	11.70	H2O3.Si.2Na.9H2O
2736	Sodium metavanadate; (Sodium vanadate)	13718-26-8	SKP000	121.93	mg/m3	N	4.98	O3V.Na
2737	Sodium methylate	124-41-4	SIK450	54.03	mg/m3	Y	2.21	CH3O.Na
2738	Sodium molybdate dihydrate; (Disodium molybdate dihydrate)	10102-40-6	DXE875	241.95	mg/m3	N	9.89	Na2MoO4.2H2O
2739	Sodium monoxide; (Sodium oxide)	12401-86-4	SIN500	61.98	mg/m3	Y	2.53	Na2.O
2740	Sodium nickel oxide (Liquid)	37367-09-2	SFZ000	136.67	mg/m3	N	5.59	Na2.Ni.O2
2741	Sodium nickelate (Liquids)	z-0073	SFZ000	172.70	mg/m3	N	7.06	Na2.Ni.(O.H)4
2742	Sodium nickelate (Solids)	z-0074	SFZ000	172.70	mg/m3	N	7.06	Na2.Ni.(O.H)4
2743	Sodium nitrate	7631-99-4	SIO900	85.00	mg/m3	Y	3.47	Na.N.O3
2744	Sodium nitrite	7632-00-0	SIQ500	69.00	mg/m3	Y	2.82	Na.N.O2
2745	Sodium nitroferricyanide	14402-89-2	SIU500	261.94	mg/m3	N	10.71	C5.Fe.N6.O..2Na

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2732	Sodium metabisulfite	7681-57-4	S	150 dec				1.4	3	
2733	Sodium metaborate	7775-19-1	S	966	1434			2.464	2	
2734	Sodium metaphosphate	10361-03-2	S						2	
2735	Sodium metasilicate nonahydrate	13517-24-3	S	1089				2.614		
2736	Sodium metavanadate; (Sodium vanadate)	13718-26-8	S	630					3	
2737	Sodium methylate	124-41-4	S	>300	127dec				3	
2738	Sodium molybdate dihydrate; (Disodium molybdate dihydrate)	10102-40-6	S					3.5	3	
2739	Sodium monoxide; (Sodium oxide)	12401-86-4	S		1275 subl			2.27	3	
2740	Sodium nickel oxide (Liquid)	37367-09-2	L							
2741	Sodium nickelate (Liquids)	z-0073	L							
2742	Sodium nickelate (Solids)	z-0074	S							
2743	Sodium nitrate	7631-99-4	S	306.8	380 dec			2.261	3	
2744	Sodium nitrite	7632-00-0	S hygr	271	320 dec			2.168	3	
2745	Sodium nitroferricyanide	14402-89-2	S						3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2732	Sodium metabisulfite	7681-57-4	09/30/97				NA
2733	Sodium metaborate	7775-19-1			08/01/07	GOEV, RTECS	NA
2734	Sodium metaphosphate	10361-03-2	07/09/97				NA
2735	Sodium metasilicate nonahydrate	13517-24-3			08/01/07	GOEV, HSDB.	NA
2736	Sodium metavanadate; (Sodium vanadate)	13718-26-8	08/07/98				NA
2737	Sodium methylate	124-41-4	03/01/00				NA
2738	Sodium molybdate dihydrate; (Disodium molybdate dihydrate)	10102-40-6					NA
2739	Sodium monoxide; (Sodium oxide)	12401-86-4	10/31/92				NA
2740	Sodium nickel oxide (Liquid)	37367-09-2					NA
2741	Sodium nickelate (Liquids)	z-0073					
2742	Sodium nickelate (Solids)	z-0074					
2743	Sodium nitrate	7631-99-4	08/21/96				NA
2744	Sodium nitrite	7632-00-0	08/21/96				NA
2745	Sodium nitroferricyanide	14402-89-2	01/04/99				NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2746	Sodium o-benzyl-p-chlorophenate	3184-65-4	SFB200	241.68	mg/m3	N	9.88	C13-H11-Cl-O-Na
2747	Sodium orthovanadate	13721-39-6	SIY250	183.91	mg/m3	Y	7.52	Na3-V-O4
2748	Sodium oxalate	62-76-0	SIY500	134.00	mg/m3	N	5.48	Na2C2O4
2749	Sodium oxide; (Disodium oxide; Sodium monoxide)	1313-59-3	N.I.S.	61.98	mg/m3	Y	2.53	Na2.O
2750	Sodium pentachlorophenate	131-52-2	SJA000	288.30	mg/m3	N	11.78	C6Cl5O.Na
2751	Sodium perchlorate	7601-89-0	PCE750	122.44	mg/m3	N	5.00	ClO4.Na
2752	Sodium perchlorate monohydrate	7791-07-3	SJB450	140.46	mg/m3	N	5.74	Cl.O4.Na..H2O
2753	Sodium permanganate	10101-50-5	SJC000	141.93	mg/m3	N	5.80	Mn.O4..Na
2754	Sodium peroxide	1313-60-6	SJC500	77.98	mg/m3	Y	3.19	Na2.O2
2755	Sodium perrhenate; (Rhenium(VII) sodium oxide)	13472-33-8	SJD500	273.19	mg/m3	N	11.17	NaO4.Re
2756	Sodium persulfate	7775-27-1	SJE000	238.10	mg/m3	Y	9.73	2Na..S2.O8
2757	Sodium pertechnetate	13718-28-0	N.I.S. etc.	184.99	mg/m3	N	7.56	NaTcO4
2758	Sodium phosphate	7632-05-5	N.I.S.	258.93	mg/m3	N	10.58	H3.O4.P..x Na
2759	Sodium phosphate, dibasic	7558-79-4	SJH090	141.96	mg/m3	Y	5.80	HO4P.2Na

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2746	Sodium o-benzyl-p-chlorophenate	3184-65-4	S						3	
2747	Sodium orthovanadate	13721-39-6	S	850-866					3	
2748	Sodium oxalate	62-76-0	S	250-270	dec			2.34	3	
2749	Sodium oxide; (Disodium oxide; Sodium monoxide)	1313-59-3	S	1132 dec				2.27		
2750	Sodium pentachlorophenate	131-52-2	S						3	
2751	Sodium perchlorate	7601-89-0	S	482 dec				2.02	3	
2752	Sodium perchlorate monohydrate	7791-07-3	S	130				2.02	2	
2753	Sodium permanganate	10101-50-5	S					1.972	3	
2754	Sodium peroxide	1313-60-6	S	460 dec	657 dec			2.805	3	
2755	Sodium perrhenate; (Rhenium(VII) sodium oxide)	13472-33-8	S	420					2	
2756	Sodium persulfate	7775-27-1	S	100 dec				2.4	3	
2757	Sodium pertechnetate	13718-28-0	S							
2758	Sodium phosphate	7632-05-5	S							
2759	Sodium phosphate, dibasic	7558-79-4	S	240dec						

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2746	Sodium o-benzyl-p-chlorophenate	3184-65-4	09/30/97				NA
2747	Sodium orthovanadate	13721-39-6					NA
2748	Sodium oxalate	62-76-0	08/21/96				NA
2749	Sodium oxide; (Disodium oxide; Sodium monoxide)	1313-59-3	12/07/07		12/10/07	TSCA, HC&P	3
2750	Sodium pentachlorophenate	131-52-2					NA
2751	Sodium perchlorate	7601-89-0	08/07/98				NA
2752	Sodium perchlorate monohydrate	7791-07-3					NA
2753	Sodium permanganate	10101-50-5	04/15/07				NA
2754	Sodium peroxide	1313-60-6	10/31/92				3
2755	Sodium perrhenate; (Rhenium(VII) sodium oxide)	13472-33-8					NA
2756	Sodium persulfate	7775-27-1					3
2757	Sodium pertechnetate	13718-28-0					NA
2758	Sodium phosphate	7632-05-5					NA
2759	Sodium phosphate, dibasic	7558-79-4	08/07/98				NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2760	Sodium phosphate, dibasic, dodecahydrate	10039-32-4	SFZ000	358.20	mg/m3	Y	14.64	HO4P.2Na.12H2O
2761	Sodium phosphate, dibasic, heptahydrate	7782-85-6	SFZ000	383.05	mg/m3	N	15.66	HO4P.2Na.7H2O
2762	Sodium phosphate, monobasic	7558-80-7	SJH100	119.98	mg/m3	Y	4.90	Na-H2-P-O4
2763	Sodium phosphate, tribasic	7601-54-9	SJH200	163.94	mg/m3	Y	6.70	Na3PO4
2764	Sodium phosphate, tribasic, dodecahydrate	10101-89-0	SFZ000	380.18	mg/m3	N	15.54	Na3PO4. 12H2O
2765	Sodium phosphate, tribasic; (Sodium hexametaphosphate; Calgon)	10124-56-8	SHM500	611.76	mg/m3	Y	25.00	O18P6.6Na
2766	Sodium phosphate, tribasic; (Sodium trimetaphosphate)	7785-84-4	SKM500	305.88	mg/m3	N	12.50	3Na.(PO3)3
2767	**Sodium phosphide**	**12058-85-4**	SJI500	99.94	ppm	N	4.08	Na3.P
2768	Sodium polyphosphate	68915-31-1	N.I.S.	611.77	mg/m3	N	25.00	Na6.O18.P6
2769	Sodium polytungstate	12141-67-2	N.I.S.	2986.13	mg/m3	N	122.05	H2.O40.W12-6Na
2770	Sodium potassium tartrate tetrahydrate	6381-59-5	N.I.S.	282.22	mg/m3	N	11.53	C4.H4.K.Na.O6..4H2O
2771	Sodium potassium tartrate; (Potassium sodium tartrate)	304-59-6	SJK385	210.16	mg/m3	N	8.59	C4.H4.K.Na.O6
2772	Sodium p-tert-amylphenate; (4-(1,1-dimethylpropyl)phenol, sodium salt)	31366-95-7	SFZ000	186.25	mg/m3	N	7.61	C11-H15-O.Na
2773	Sodium pyrophosphate decahydrate	13472-36-1	N.I.S. etc.	446.10	mg/m3	Y	18.23	2Na.H2.O7.P2..10 H2O

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2760	Sodium phosphate, dibasic, dodecahydrate	10039-32-4	S							
2761	Sodium phosphate, dibasic, heptahydrate	7782-85-6	S hygr		loses 5.H2O @				1	
2762	Sodium phosphate, monobasic	7558-80-7	S						3	
2763	Sodium phosphate, tribasic	7601-54-9	S					1.62	2	
2764	Sodium phosphate, tribasic, dodecahydrate	10101-89-0	S							
2765	Sodium phosphate, tribasic; (Sodium hexametaphosphate; Calgon)	10124-56-8	S						3	
2766	Sodium phosphate, tribasic; (Sodium trimetaphosphate)	7785-84-4	S						3	
2767	**Sodium phosphide**	**12058-85-4**	S						3	
2768	Sodium polyphosphate	68915-31-1								
2769	Sodium polytungstate	12141-67-2	S							
2770	Sodium potassium tartrate tetrahydrate	6381-59-5	S	90 - 100	200			1.77		
2771	Sodium potassium tartrate; (Potassium sodium tartrate)	304-59-6	S pwdr	90 - 100	200			1.77	D	
2772	Sodium p-tert-amylphenate; (4-(1,1-dimethylpropyl)phenol, sodium salt)	31366-95-7								
2773	Sodium pyrophosphate decahydrate	13472-36-1	S						3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2760	Sodium phosphate, dibasic, dodecahydrate	10039-32-4					NA
2761	Sodium phosphate, dibasic, heptahydrate	7782-85-6					NA
2762	Sodium phosphate, monobasic	7558-80-7					NA
2763	Sodium phosphate, tribasic	7601-54-9	08/21/96				NA
2764	Sodium phosphate, tribasic, dodecahydrate	10101-89-0					NA
2765	Sodium phosphate, tribasic; (Sodium hexametaphosphate; Calgon)	10124-56-8					NA
2766	Sodium phosphate, tribasic; (Sodium trimetaphosphate)	7785-84-4					NA
2767	**Sodium phosphide**	**12058-85-4**	01/03/08	02/05/08	01/03/08	EPA	
2768	Sodium polyphosphate	68915-31-1					NA
2769	Sodium polytungstate	12141-67-2					NA
2770	Sodium potassium tartrate tetrahydrate	6381-59-5					NA
2771	Sodium potassium tartrate; (Potassium sodium tartrate)	304-59-6					NA
2772	Sodium p-tert-amylphenate; (4-(1,1-dimethylpropyl)phenol, sodium salt)	31366-95-7	09/30/97				NA
2773	Sodium pyrophosphate decahydrate	13472-36-1					NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2774	Sodium pyrophosphate, di-	7758-16-9	DXF800	221.94	mg/m3	Y	9.07	H2O7P2.Na2
2775	Sodium pyruvate; (Pyruvic acid, sodium salt)	113-24-6	N.I.S.	110.05	mg/m3	N	4.50	C3.H3.O5.Na
2776	Sodium salicylate; (Salicylic acid, sodium salt)	54-21-7	SJO000	160.11	mg/m3	Y	6.54	C7.H5.Na.O3
2777	Sodium selenate; (Disodium selenate)	13410-01-0	DXG000	188.94	mg/m3	N	7.72	SeO4.2Na
2778	Sodium selenite	10102-18-8	SJT500	172.94	mg/m3	N	7.07	SeO3.2Na
2779	Sodium silicate; (Sodium metasilicate)	6834-92-0	SJU000	122.07	mg/m3	Y	4.99	O3.Si..2Na
2780	Sodium stannate	12058-66-1	SFZ000	212.69	mg/m3	N	8.69	Na2-Sn-O3
2781	Sodium stearate	822-16-2	SJV500	306.52	mg/m3	N	12.53	C18H36O2.Na
2782	Sodium strontium phosphate	19553-80-1	SFZ000	205.58	mg/m3	N	8.40	Na..Sr.PO4
2783	Sodium succinate	150-90-3	SJW100	162.06	ppm	N	6.62	Na2.C4.H4.O4
2784	Sodium succinate, hexahydrate	6106-21-4	N.I.S., etc.	270.14	mg/m3	N	11.04	2Na.C4.H4.O4.. 6(H2.O)
2785	Sodium sulfate, anhydrous	7757-82-6	SJY000	142.04	mg/m3	N	5.81	Na2.S.O4
2786	Sodium sulfhydrate; (Sodium hydrosulfide)	16721-80-5	SHR000	56.06	mg/m3	Y	2.29	H.Na.S
2787	Sodium sulfide	1313-82-2	SJY500	78.04	mg/m3	N	3.19	Na2.S

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2774	Sodium pyrophosphate, di-	7758-16-9	S	220 dec				1.862	3	
2775	Sodium pyruvate; (Pyruvic acid, sodium salt)	113-24-6	S	300					0	
2776	Sodium salicylate; (Salicylic acid, sodium salt)	54-21-7	S	200					3	
2777	Sodium selenate; (Disodium selenate)	13410-01-0	S/L					3.098	3	
2778	Sodium selenite	10102-18-8	S	710					3	
2779	Sodium silicate; (Sodium metasilicate)	6834-92-0	L/S	1089				1.1 to 1.7 @ 15 C	3	
2780	Sodium stannate	12058-66-1	S							
2781	Sodium stearate	822-16-2	S						3	
2782	Sodium strontium phosphate	19553-80-1	S							
2783	Sodium succinate	150-90-3	L						1	36000
2784	Sodium succinate, hexahydrate	6106-21-4	L							
2785	Sodium sulfate, anhydrous	7757-82-6	S	888				2.671	2	
2786	Sodium sulfhydrate; (Sodium hydrosulfide)	16721-80-5	S	350					3	
2787	Sodium sulfide	1313-82-2	S deliq	1172				1.856	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2774	Sodium pyrophosphate, di-	7758-16-9	08/07/98				NA
2775	Sodium pyruvate; (Pyruvic acid, sodium salt)	113-24-6					NA
2776	Sodium salicylate; (Salicylic acid, sodium salt)	54-21-7			05/18/07	RTECS	NA
2777	Sodium selenate; (Disodium selenate)	13410-01-0					NA
2778	Sodium selenite	10102-18-8					NA
2779	Sodium silicate; (Sodium metasilicate)	6834-92-0	08/07/98		01/11/08	RTECS, HSDB	NA
2780	Sodium stannate	12058-66-1					NA
2781	Sodium stearate	822-16-2	08/07/98				NA
2782	Sodium strontium phosphate	19553-80-1					NA
2783	Sodium succinate	150-90-3					NA
2784	Sodium succinate, hexahydrate	6106-21-4					NA
2785	Sodium sulfate, anhydrous	7757-82-6	08/21/96				NA
2786	Sodium sulfhydrate; (Sodium hydrosulfide)	16721-80-5	01/04/99				NA
2787	Sodium sulfide	1313-82-2					3

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2788	Sodium sulfide nonahydrate	1313-84-4	N.I.S.	240.22	mg/m3	N	9.82	Na2.S..9H2O
2789	Sodium sulfite	7757-83-7	SJZ000	126.04	mg/m3	N	5.15	O3.S.2Na
2790	Sodium tartrate dihydrate	6106-24-7	N.I.S. etc.	230.08	mg/m3	N	9.40	C4.H8.Na2.O8
2791	Sodium tellurate	10101-83-4	SKC000	237.58	mg/m3	N	9.71	2Na..Te.O4
2792	Sodium tellurite	10102-20-2	SKC500	221.58	mg/m3	N	9.06	Te.O3.2Na
2793	Sodium tetrafluoroborate(1-)	13755-29-8	SKE000	109.80	mg/m3	N	4.49	B.F4..Na
2794	Sodium tetraphenyl borate	143-66-8	SFZ000	342.23	mg/m3	Y	13.99	C24.H20.B.Na
2795	Sodium thiosulfate	7772-98-7	SKI000	158.10	mg/m3	N	6.46	O3.S2.2Na
2796	Sodium thiosulfate pentahydrate	10102-17-7	SKI500	248.20	mg/m3	N	10.14	Na2.S2.O3..5H2O
2797	Sodium titanate	12034-34-3	N.I.S.	141.84	mg/m3	N	5.80	Ti..Na2.O3
2798	Sodium tolyltriazole; (1H-benzzotriazole, 4(or 5)-methyl-, sodium salt)	64665-57-2	N.I.S.	156.14	mg/m3	N	6.38	C7.H7.N3..Na
2799	Sodium tridecylbenzene sulfonate	26248-24-8	N.I.S.	362.45	mg/m3	N	14.81	C19.H3.Na.O3.S
2800	Sodium triethylborohydride	17979-81-6	N.I.S., etc.	121.99	mg/m3	N	4.99	(C2.H5)3Na.B.H
2801	Sodium trihydrogen silicate	z-0076	SFZ000	118.10	mg/m3	N	4.83	Na-H3-Si-O4

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2788	Sodium sulfide nonahydrate	1313-84-4	S	~50	1124 dec			1.427 @ 16C	3	
2789	Sodium sulfite	7757-83-7	S	dec				2.633	3	
2790	Sodium tartrate dihydrate	6106-24-7	S	150 dehydrat				1.8		
2791	Sodium tellurate	10101-83-4	S						3	
2792	Sodium tellurite	10102-20-2	S						3	
2793	Sodium tetrafluoroborate(1-)	13755-29-8	S	322	dec			2.47	2	
2794	Sodium tetraphenyl borate	143-66-8	S							
2795	Sodium thiosulfate	7772-98-7	S		dec				2	
2796	Sodium thiosulfate pentahydrate	10102-17-7	S	48				1.69	2	
2797	Sodium titanate	12034-34-3	S							
2798	Sodium tolyltriazole; (1H-benzzotriazole, 4(or 5)-methyl-, sodium salt)	64665-57-2	L	-5 to -10	~106			1.18 @ 20C		
2799	Sodium tridecylbenzene sulfonate	26248-24-8	S							
2800	Sodium triethylborohydride	17979-81-6	S					0.866	3	
2801	Sodium trihydrogen silicate	z-0076	S							

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2788	Sodium sulfide nonahydrate	1313-84-4					NA
2789	Sodium sulfite	7757-83-7	08/07/98				NA
2790	Sodium tartrate dihydrate	6106-24-7					NA
2791	Sodium tellurate	10101-83-4					NA
2792	Sodium tellurite	10102-20-2					NA
2793	Sodium tetrafluoroborate(1-)	13755-29-8					NA
2794	Sodium tetraphenyl borate	143-66-8	09/30/97				NA
2795	Sodium thiosulfate	7772-98-7	07/09/97				NA
2796	Sodium thiosulfate pentahydrate	10102-17-7	08/21/96				NA
2797	Sodium titanate	12034-34-3					NA
2798	Sodium tolyltriazole; (1H-benzzotriazole, 4(or 5)-methyl-, sodium salt)	64665-57-2	11/04/07		11/06/07	EPA web site.	
2799	Sodium tridecylbenzene sulfonate	26248-24-8					NA
2800	Sodium triethylborohydride	17979-81-6					NA
2801	Sodium trihydrogen silicate	z-0076					

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2802	Sodium tripolyphosphate	7758-29-4	SFZ000	367.86	mg/m3	N	15.03	Na5-P3-O10
2803	Sodium tungstate	13472-45-2	SKN500	293.83	mg/m3	N	12.01	O4W·2Na
2804	Sodium tungstate dihydrate	10213-10-2	SKO000	329.87	mg/m3	Y	13.48	2Na.W.O4..2 H2O
2805	Sodium uranate; (Disodium uranate hexahydrate)	66018-57-3	SFZ000	742.00	mg/m3	Y	30.33	Na2.U2.O7..6(H2.O)
2806	Sodium uranium oxide monohydrate	13721-34-1	SFZ000	652.05	mg/m3	Y	26.65	Na2.U2.O7..H2.O
2807	Sodium uranyl carbonate	z-0078	SFZ000	376.01	mg/m3	Y	15.37	Na2.U.O2..C.O3
2808	Sodium zirconate; (Disodium zirconium oxide)	12201-48-8	SFZ000	199.24	mg/m3	Y	8.14	.2Na.Zr.O3
2809	Sodium-Potassium	11135-81-2	PLS500	38.55	mg/m3	Y	1.58	Na..K
2810	Solvent naphtha, petroleum, medium aliphatic; (Mineral spirits, naphtha)	64742-88-7	N.I.S.		mg/m3	N		C9 through C12
2811	Solvent Yellow 3	97-56-3	AIC250	225.32	mg/m3	N	9.21	C14H15N3
2812	**Soman; (3,3-Dimethyl-2-butyl methylphosphonofluoridate; GD)**	**96-64-0**	SKS500	182.20	ppm	N	7.45	C7.H16.F.O2.P
2813	Sorbitan monolaurate; (D-Glucitol, 1,4-anhydro-, 6-dodecanoate)	5959-89-7	N.I.S., etc.	346.46	mg/m3	N	14.16	C18.H34.O6
2814	Sorbitan monostearate polyoxyethylene; (Ethoxylated sorbitan monostearate)	9005-67-8	PKL030	1311.90	mg/m3	N	53.62	C64.H128.O26
2815	Sorbitan trioleate	26266-58-0	N.I.S.	957.68	mg/m3	N	39.14	C60.H108.O8

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2802	Sodium tripolyphosphate	7758-29-4	Pwdr	622						
2803	Sodium tungstate	13472-45-2	S	695				4.179	3	
2804	Sodium tungstate dihydrate	10213-10-2	S	100 dec				3.25	3	
2805	Sodium uranate; (Disodium uranate hexahydrate)	66018-57-3	S						3	
2806	Sodium uranium oxide monohydrate	13721-34-1	S						3	
2807	Sodium uranyl carbonate	z-0078	S							
2808	Sodium zirconate; (Disodium zirconium oxide)	12201-48-8	S							
2809	Sodium-Potassium	11135-81-2	L/S						3	
2810	Solvent naphtha, petroleum, medium aliphatic; (Mineral spirits, naphtha)	64742-88-7	L	-70	150-210	1.5	25	0.75-0.85	D	
2811	Solvent Yellow 3	97-56-3	L	100			7.5E-07		3	
2812	**Soman; (3,3-Dimethyl-2-butyl methylphosphonofluoridate; GD)**	**96-64-0**	L	-42	167	0.4	25	1.022 @ 20C	3	
2813	Sorbitan monolaurate; (D-Glucitol, 1,4-anhydro-, 6-dodecanoate)	5959-89-7								
2814	Sorbitan monostearate polyoxyethylene; (Ethoxylated sorbitan monostearate)	9005-67-8	L						2	
2815	Sorbitan trioleate	26266-58-0	S							

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2802	Sodium tripolyphosphate	7758-29-4	01/04/99				NA
2803	Sodium tungstate	13472-45-2	01/04/99				NA
2804	Sodium tungstate dihydrate	10213-10-2					NA
2805	Sodium uranate; (Disodium uranate hexahydrate)	66018-57-3					NA
2806	Sodium uranium oxide monohydrate	13721-34-1	01/04/99				NA
2807	Sodium uranyl carbonate	z-0078		02/07/08	06/01/07	GOEV	
2808	Sodium zirconate; (Disodium zirconium oxide)	12201-48-8					NA
2809	Sodium-Potassium	11135-81-2	07/09/97				3
2810	Solvent naphtha, petroleum, medium aliphatic; (Mineral spirits, naphtha)	64742-88-7	08/21/96	02/28/08	02/28/08	RTECS, HSDB.	1
2811	Solvent Yellow 3	97-56-3					NA
2812	**Soman; (3,3-Dimethyl-2-butyl methylphosphonofluoridate; GD)**	**96-64-0**		02/05/08	08/16/07	MSDS, EPA.	NA
2813	Sorbitan monolaurate; (D-Glucitol, 1,4-anhydro-, 6-dodecanoate)	5959-89-7					NA
2814	Sorbitan monostearate polyoxyethylene; (Ethoxylated sorbitan monostearate)	9005-67-8					NA
2815	Sorbitan trioleate	26266-58-0					NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2816	Sorbitan, monolaurate	1338-39-2	SKV000	346.52	mg/m3	N	14.16	C18.H34.O6
2817	Sorbitan, monooleate	1338-43-8	SKV100	428.68	mg/m3	Y	17.52	C24.H44.O6
2818	Sorbitan, monooleate polyoxyethylene; (Polyethylene sorbitan monooleate; Tween	9005-65-6	PKL100		mg/m3	N		
2819	Sorbitan, monostearate	1338-41-6	SKV150	430.70	mg/m3	N	17.60	C24.H46.O6
2820	Sorbitol, D-; (D-Glucitol)	50-70-4	SKV200	182.20	mg/m3	N	7.45	C6.H14.O6
2821	Spiro(isobenzofuran-1(3H),9'-(9H)xanthen)-3-one, 3',6'-dihydroxy-; (Fluorescein)	2321-07-5	FEV000	332.32	mg/m3	Y	13.58	C20.H12.O5
2822	Squalene; (2,6,10,15,19,23-Hexamethyl-2,6,10,14,18,22-tetracosahexene, (all-E)-)	111-02-4	SLG800	410.72	mg/m3	N	16.79	C30.H50
2823	Stannic chloride; (Tin(IV) chloride; Tin(IV) tetrachloride)	7646-78-8	TGC250	260.49	mg/m3	Y	10.65	Sn.Cl4
2824	Stannous chloride; (Tin(II) chloride (1:2))	7772-99-8	TGC000	189.59	mg/m3	N	7.75	Sn.Cl2
2825	Stannous octoate	301-10-0	N.I.S.	405.12	mg/m3	Y	16.56	C16.H30.O4.Sn
2826	Starch dust	9005-25-8	SLJ500		mg/m3	N		
2827	**Stibine; (Antimony hydride)**	**7803-52-3**	SLQ000	124.78	ppm	Y	5.10	SbH3
2828	Stilbene	588-59-0	SLR000	180.26	mg/m3	N	7.37	C14H12
2829	Stilbene 3; (Stilbene 420; Tinopal CBS; Disodium 4,4'-bis(2-sulfostyryl)biphenyl)	27344-41-8	TGE150	562.58	mg/m3	N	22.99	C28H20O6S2.2Na

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2816	Sorbitan, monolaurate	1338-39-2	S						1	
2817	Sorbitan, monooleate	1338-43-8	L					0.986	1	
2818	Sorbitan, monooleate polyoxyethylene; (Polyethylene sorbitan monooleate; Tween	9005-65-6	L					1.06-1.10	2	
2819	Sorbitan, monostearate	1338-41-6	S	49-65				1.0	1	
2820	Sorbitol, D-; (D-Glucitol)	50-70-4	S	97.5	105			1.489 @ 20C	1	
2821	Spiro(isobenzofuran-1(3H),9'-(9H)xanthen)-3-one, 3',6'-dihydroxy-; (Fluorescein)	2321-07-5	S	314-316					3	
2822	Squalene; (2,6,10,15,19,23-Hexamethyl-2,6,10,14,18,22-tetracosahexene, (all-E)-)	111-02-4	L	-75	285 @ 25 mm	2	240	0.858	2	
2823	Stannic chloride; (Tin(IV) chloride; Tin(IV) tetrachloride)	7646-78-8	L	-33	114.1	10	10	2.232	3	
2824	Stannous chloride; (Tin(II) chloride (1:2))	7772-99-8	S	246	623			2.71	3	
2825	Stannous octoate	301-10-0	S					1.251	2	
2826	Starch dust	9005-25-8	S	dec				1.45	3	
2827	**Stibine; (Antimony hydride)**	**7803-52-3**	G	-88	-18.4	>760		2.26 @ -25C	3	
2828	Stilbene	588-59-0	S	124-125	306-307			0.9707	3	
2829	Stilbene 3; (Stilbene 420; Tinopal CBS; Disodium 4,4'-bis(2-sulfostyryl)biphenyl)	27344-41-8	S						2	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2816	Sorbitan, monolaurate	1338-39-2					NA
2817	Sorbitan, monooleate	1338-43-8					NA
2818	Sorbitan, monooleate polyoxyethylene; (Polyethylene sorbitan monooleate; Tween	9005-65-6					NA
2819	Sorbitan, monostearate	1338-41-6					NA
2820	Sorbitol, D-; (D-Glucitol)	50-70-4					NA
2821	Spiro(isobenzofuran-1(3H),9'-(9H)xanthen)-3-one, 3',6'-dihydroxy-; (Fluorescein)	2321-07-5					
2822	Squalene; (2,6,10,15,19,23-Hexamethyl-2,6,10,14,18,22-tetracosahexene, (all-E)-)	111-02-4			05/18/07		NA
2823	Stannic chloride; (Tin(IV) chloride; Tin(IV) tetrachloride)	7646-78-8					3
2824	Stannous chloride; (Tin(II) chloride (1:2))	7772-99-8	08/07/98	06/11/08	06/11/08	GOEV, RTECS.	NA
2825	Stannous octoate	301-10-0					NA
2826	Starch dust	9005-25-8					NA
2827	**Stibine; (Antimony hydride)**	**7803-52-3**	01/04/99	07/18/08	07/02/08	GOEV, EPA.	4
2828	Stilbene	588-59-0	08/07/98				NA
2829	Stilbene 3; (Stilbene 420; Tinopal CBS; Disodium 4,4'-bis(2-sulfostyryl)biphenyl)	27344-41-8					NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2830	Stoddard solvent; (Mineral spirits, 85% nonane and 15% trimethyl benzene)	8052-41-3	SLU500	127.08	mg/m3	Y	5.19	[Unspecified]
2831	Strontium	7440-24-6	SMD500	87.62	mg/m3	N	3.58	Sr
2832	Strontium carbonate	1633-05-2	SMH500	147.63	mg/m3	N	6.03	Sr-C-O3
2833	Strontium chloride	10476-85-4	SMG500	158.52	mg/m3	N	6.48	Sr.Cl2
2834	Strontium hydroxide	18480-07-4	SMH500	121.63	mg/m3	N	4.97	Sr-(OH)2
2835	Strontium nitrate	10042-76-9	SMK000	211.64	mg/m3	Y	8.65	Sr(NO3)2
2836	Strontium nitrite; (Nitrous acid, strontium salt)	13470-06-9	SMH500	179.62	mg/m3	N	7.34	Sr-(N-O2)2
2837	Strontium oxalate	814-95-9	SMH500	175.64	mg/m3	N	7.18	Sr-C2-O4
2838	Strontium phosphate; (Strontium orthophosphate)	14414-90-5	SMH500	452.80	mg/m3	N	18.51	Sr3-(P-O4)2
2839	**Strontium phosphide**	**12504-13-1**	SML000	118.59	ppm	N	4.85	P.Sr
2840	Strontium sulfate	7759-02-6	SMH500	185.70	mg/m3	N	7.59	Sr-H2-SO4
2841	Strychnine	57-24-9	SMN500	334.45	mg/m3	N	13.67	C21H22N2O2
2842	Strychnine sulfate (2:1)	60-41-3	SMP000	383.49	mg/m3	N	15.67	C21H22N2O2. 1/2H2O4S
2843	**Styrene**	**100-42-5**	SMQ000	104.16	ppm	Y	4.26	C6.H5. CH=CH2

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2830	Stoddard solvent; (Mineral spirits, 85% nonane and 15% trimethyl benzene)	8052-41-3	L		220-300			1.0	3	8000
2831	Strontium	7440-24-6	S	757	1366	10	898	2.6	3	
2832	Strontium carbonate	1633-05-2	S	1494	dec			3.5		
2833	Strontium chloride	10476-85-4	S	874	1250			3.052	3	
2834	Strontium hydroxide	18480-07-4	S							
2835	Strontium nitrate	10042-76-9	S	570	645			2.986	2	
2836	Strontium nitrite; (Nitrous acid, strontium salt)	13470-06-9	S							
2837	Strontium oxalate	814-95-9	S							
2838	Strontium phosphate; (Strontium orthophosphate)	14414-90-5	S							
2839	**Strontium phosphide**	**12504-13-1**	S						2	
2840	Strontium sulfate	7759-02-6	S	1605				3.71-3.97	1	
2841	Strychnine	57-24-9	S	268	270			1.359 @ 18C	3	
2842	Strychnine sulfate (2:1)	60-41-3	S	200	270 @ 5 mm	1E-08	25	1.36 @ 20C	3	
2843	**Styrene**	**100-42-5**	L	-30.6	145	5	20	0.9074	3	9000

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2830	Stoddard solvent; (Mineral spirits, 85% nonane and 15% trimethyl benzene)	8052-41-3	08/21/96				1
2831	Strontium	7440-24-6	09/30/97				NA
2832	Strontium carbonate	1633-05-2					NA
2833	Strontium chloride	10476-85-4					NA
2834	Strontium hydroxide	18480-07-4					NA
2835	Strontium nitrate	10042-76-9	08/21/96				NA
2836	Strontium nitrite; (Nitrous acid, strontium salt)	13470-06-9					NA
2837	Strontium oxalate	814-95-9					NA
2838	Strontium phosphate; (Strontium orthophosphate)	14414-90-5					NA
2839	**Strontium phosphide**	**12504-13-1**	01/03/08	07/19/08	01/03/08	EPA	
2840	Strontium sulfate	7759-02-6					NA
2841	Strychnine	57-24-9	08/21/96				NA
2842	Strychnine sulfate (2:1)	60-41-3					NA
2843	**Styrene**	**100-42-5**	10/31/92	02/05/08	08/16/07	EPA.	2

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2844	Styrene oxide; (1,2-Epoxyethylbenzene)	96-09-3	EBR000	120.16	ppm	Y	4.91	C8H8O
2845	Styrene-allyl alcohol copolymer	25119-62-4	N.I.S.		mg/m3	N		(C8.H8..C3.H6.O)x
2846	Styrene-divinylbenzene resin, chloromethylated, aminated with trimethylamine; (Bio-Rad AG1-X8 anion exchange resin, formate form)	60177-39-1	CIF775		mg/m3	N		(C12.H18.N..C10.H10.Cl)x
2847	Styrenesulfonate), poly(sodium 4-	25704-18-1	SJK375	70000	mg/m3	N	2861.00	C8.H8.O3.S..Na)n
2848	Succinic acid	110-15-6	SMY000	118.10	mg/m3	Y	4.83	C4.H6.O4
2849	Succinic anhydride	108-30-5	SNC000	100.08	mg/m3	Y	4.09	C4.H4.O3
2850	Sucrose	57-50-1	SNH000	342.34	mg/m3	N	13.99	C12.H22.O11
2851	Sucrose, diacetate hexaisobutyrate; (Sucrose acetate isobutyrate; SAIB)	126-13-6	SNH050	847.02	mg/m3	N	34.62	C40.H62.O19
2852	Sulfamic acid	5329-14-6	SNK500	97.10	mg/m3	Y	3.97	H3NO3S
2853	Sulfanilamide	63-74-1	SNM500	172.22	mg/m3	N	7.04	C6.H8.N2.O2.S
2854	Sulfanilic acid	121-57-3	SNN600	173.20	mg/m3	Y	7.08	C6.H7.N.O3.S
2855	Sulfonic acids, petroleum; (Petrolatum acid sulfonate)	61789-85-3	N.I.S.		mg/m3	N		Organic. (SO2OH)n
2856	Sulfonylbis-ethanol, 2,2'-	2580-77-0	N.I.S.	154.19	mg/m3	N	6.30	C4.H10.O4.S

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2844	Styrene oxide; (1,2-Epoxyethylbenzene)	96-09-3	L	-36.7	194.2	0.3	20	1.0469 @ 25 C	3	
2845	Styrene-allyl alcohol copolymer	25119-62-4	S							
2846	Styrene-divinylbenzene resin, chloromethylated, aminated with trimethylamine; (Bio-Rad AG1-X8 anion exchange resin, formate form)	60177-39-1	S							
2847	Styrenesulfonate), poly(sodium 4-	25704-18-1	S	460 dec				0.801	1	
2848	Succinic acid	110-15-6	S	185	235			1.154 @ 15C	2	
2849	Succinic anhydride	108-30-5	S	119.6	261	1	92	1.104	2	
2850	Sucrose	57-50-1	S	185.5				1.585 @ 17C	1	[45]
2851	Sucrose, diacetate hexaisobutyrate; (Sucrose acetate isobutyrate; SAIB)	126-13-6	S					1.146	1	
2852	Sulfamic acid	5329-14-6	S	205	dec			2.1	3	93000
2853	Sulfanilamide	63-74-1	S	165.5				1.08	3	
2854	Sulfanilic acid	121-57-3	S	288				1.485	1	
2855	Sulfonic acids, petroleum; (Petrolatum acid sulfonate)	61789-85-3	L							
2856	Sulfonylbis-ethanol, 2,2'-	2580-77-0	L			23.5	20	1.236		

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2844	Styrene oxide; (1,2-Epoxyethylbenzene)	96-09-3					1
2845	Styrene-allyl alcohol copolymer	25119-62-4					NA
2846	Styrene-divinylbenzene resin, chloromethylated, aminated with trimethylamine; (Bio-Rad AG1-X8 anion exchange resin, formate form)	60177-39-1			10/15/06		NA
2847	Styrenesulfonate), poly(sodium 4-	25704-18-1	04/15/07				NA
2848	Succinic acid	110-15-6					NA
2849	Succinic anhydride	108-30-5					NA
2850	Sucrose	57-50-1					NA
2851	Sucrose, diacetate hexaisobutyrate; (Sucrose acetate isobutyrate; SAIB)	126-13-6					NA
2852	Sulfamic acid	5329-14-6	09/30/97				NA
2853	Sulfanilamide	63-74-1					NA
2854	Sulfanilic acid	121-57-3					NA
2855	Sulfonic acids, petroleum; (Petrolatum acid sulfonate)	61789-85-3	07/09/97				NA
2856	Sulfonylbis-ethanol, 2,2'-	2580-77-0					NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2857	Sulfosalicylic acid	97-05-2	SOC500	218.19	mg/m3	Y	8.92	C7H6O6S
2858	Sulfosalicylic acid, dihydrate, crystal	5965-83-3	N.I.S.	254.21	mg/m3	N	10.39	C7.H10.O8.S
2859	Sulfotep; (TEDP)	3689-24-5	SOD100	322.34	mg/m3	Y	13.17	C8H20O5P2S2
2860	Sulfur	7704-34-9	SOD500	32.06	mg/m3	N	1.31	S
2861	**Sulfur dioxide**	**7446-09-5**	SOH500	64.06	ppm	Y	2.62	SO2
2862	Sulfur hexafluoride	2551-62-4	SOI000	146.06	ppm	N	5.97	SF6
2863	**Sulfur monochloride**	**10025-67-9**	SON510	135.02	ppm	Y	5.52	S2Cl2
2864	Sulfur pentafluoride	5714-22-7	SOQ450	254.12	ppm	Y	10.39	F10S2
2865	Sulfur tetrafluoride	7783-60-0	SOR000	108.06	ppm	Y	4.42	F4S
2866	**Sulfur trioxide**	**7446-11-9**	SOR500	80.06	mg/m3	Y	3.27	O3S
2867	**Sulfuric acid**	**7664-93-9**	SOI500	98.08	mg/m3	Y	4.01	H2.SO4
2868	Sulfuric Acid-d2; (Deuterosulfuric acid)	13813-19-9	N.I.S.	100.09	mg/m3	Y	4.09	D2.S.O4..D2.O
2869	Sulfurous acid	7782-99-2	SOO500	82.08	mg/m3	Y	3.35	H2-S-O3
2870	**Sulfuryl chloride**	**7791-25-5**	SOT000	134.96	ppm	Y	5.52	Cl2.O2.S

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2857	Sulfosalicylic acid	97-05-2	S	120					2	
2858	Sulfosalicylic acid, dihydrate, crystal	5965-83-3	S	108-110						
2859	Sulfotep; (TEDP)	3689-24-5	S	88	310	17000	25	1.19 @ 20C	3	
2860	Sulfur	7704-34-9	S	119	444.6	1	183.8	2.07	3	[35]
2861	**Sulfur dioxide**	**7446-09-5**	G	-75.6	-10	>760		1.434 liq @ 0C	3	
2862	Sulfur hexafluoride	2551-62-4	G	-51	1000 decomp	100		1.67 @ 100C	1	
2863	**Sulfur monochloride**	**10025-67-9**	L	-77	138	10	27.5	1.6885 @ 15.5C	3	
2864	Sulfur pentafluoride	5714-22-7	L	-53	26.7	561	25	2.08 @ 0C	3	
2865	Sulfur tetrafluoride	7783-60-0	G	-121	-38			1.95 @ 78C	3	
2866	**Sulfur trioxide**	**7446-11-9**	L						3	
2867	**Sulfuric acid**	**7664-93-9**	L	10.6	290	1	146	1.834	3	
2868	Sulfuric Acid-d2; (Deuterosulfuric acid)	13813-19-9	L					1.86	3	
2869	Sulfurous acid	7782-99-2	L					1.03	3	
2870	**Sulfuryl chloride**	**7791-25-5**	L	-54.1	69.1	100	17.8	1.6674	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2857	Sulfosalicylic acid	97-05-2	08/07/98				NA
2858	Sulfosalicylic acid, dihydrate, crystal	5965-83-3					NA
2859	Sulfotep; (TEDP)	3689-24-5					NA
2860	Sulfur	7704-34-9	09/30/97				2
2861	**Sulfur dioxide**	**7446-09-5**	10/31/92	07/18/08	08/16/07	EPA.	3
2862	Sulfur hexafluoride	2551-62-4	01/04/99				NA
2863	**Sulfur monochloride**	**10025-67-9**	03/01/00	07/19/08	08/16/07	EPA.	4
2864	Sulfur pentafluoride	5714-22-7					NA
2865	Sulfur tetrafluoride	7783-60-0	03/01/00				NA
2866	**Sulfur trioxide**	**7446-11-9**	10/31/92	07/18/08	08/16/07	EPA	NA
2867	**Sulfuric acid**	**7664-93-9**	10/31/92	07/18/08	08/16/07	EPA	3
2868	Sulfuric Acid-d2; (Deuterosulfuric acid)	13813-19-9	04/15/07				NA
2869	Sulfurous acid	7782-99-2					NA
2870	**Sulfuryl chloride**	**7791-25-5**		07/18/08	01/02/08	EPA	3

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2871	**Sulfuryl fluoride**	**2699-79-8**	SOU500	102.06	ppm	Y	4.17	F2O2S
2872	Talc	14807-96-6	TAB750	96.33	mg/m3	Y	3.94	H2O3Si. 3/4Mg
2873	Tall oil (alkyd resin)	68333-62-0	N.I.S.		mg/m3	N		[Unspecified]
2874	Tantalum	7440-25-7	TAE750	180.95	mg/m3	Y	7.40	Ta
2875	Tantalum carbide	12070-06-3	N.I.S.	192.96	mg/m3	Y	7.89	Ta.C
2876	Tantalum(V) ethoxide	6074-84-6	N.I.S.	406.25	mg/m3	N	16.60	C10.H25.O5..Ta
2877	Tantalum(V) fluoride	7783-71-3	TAF250	275.95	mg/m3	N	11.28	TaF5
2878	Tantalum(V) oxide	1314-61-0	TAF500	441.90	mg/m3	Y	18.06	O5Ta2
2879	Tartaric acid	87-69-4	TAF750	150.10	mg/m3	N	6.13	C4H6O6
2880	Tartaric acid, monopotassium salt	868-14-4	PKU600	188.19	mg/m3	N	7.69	C4.H5.O6-K
2881	Tartaric acid, monosodium salt	526-94-3	N.I.S.	172.08	mg/m3	N	7.03	C4.H5.O6..Na
2882	Technetium(IV) oxide	12036-16-7	N.I.S. etc.	130.00	mg/m3	N	5.31	TcO2
2883	Technetium-99	14133-76-7	PLC100	99.92	mg/m3	N	4.08	Tc
2884	Tellurium	13494-80-9	TAJ000	127.60	mg/m3	N	5.22	Te

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2871	**Sulfuryl fluoride**	**2699-79-8**	G	-137	-55	12000	21	1.7 @ -55C	3	
2872	Talc	14807-96-6	S					2.7-2.8	2	
2873	Tall oil (alkyd resin)	68333-62-0	L							
2874	Tantalum	7440-25-7	S	2996	5429			16.69	2	
2875	Tantalum carbide	12070-06-3	S	3875	5500			14.5		
2876	Tantalum(V) ethoxide	6074-84-6	L	20	151			1.56		
2877	Tantalum(V) fluoride	7783-71-3	S	96.8	229.5	100	130	4.74	3	
2878	Tantalum(V) oxide	1314-61-0	S	1872				8.2	1	
2879	Tartaric acid	87-69-4	S	170-172				1.76	2	
2880	Tartaric acid, monopotassium salt	868-14-4	S					1.954	1	
2881	Tartaric acid, monosodium salt	526-94-3								
2882	Technetium(IV) oxide	12036-16-7	S							
2883	Technetium-99	14133-76-7	S							
2884	Tellurium	13494-80-9	S	450	990	1	520	6.24	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2871	**Sulfuryl fluoride**	**2699-79-8**		07/18/08	06/30/08	GOEV, EPA	NA
2872	Talc	14807-96-6	09/30/97				NA
2873	Tall oil (alkyd resin)	68333-62-0	09/30/97				NA
2874	Tantalum	7440-25-7					NA
2875	Tantalum carbide	12070-06-3					NA
2876	Tantalum(V) ethoxide	6074-84-6					NA
2877	Tantalum(V) fluoride	7783-71-3	08/07/98				NA
2878	Tantalum(V) oxide	1314-61-0	08/07/98				NA
2879	Tartaric acid	87-69-4	08/07/98				2
2880	Tartaric acid, monopotassium salt	868-14-4					NA
2881	Tartaric acid, monosodium salt	526-94-3					NA
2882	Technetium(IV) oxide	12036-16-7					NA
2883	Technetium-99	14133-76-7			08/24/07	ChemFinder., H&N.	NA
2884	Tellurium	13494-80-9	08/21/96				NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2885	Tellurium chloride	10026-07-0	TAJ250	269.40	mg/m3	N	11.01	Te.Cl4
2886	Tellurium hexafluoride	7783-80-4	TAK250	241.60	ppm	N	9.87	Te.F6
2887	Tellurium oxide; (Tellurium dioxide)	7446-07-3	TAJ750	159.60	mg/m3	N	6.52	Te.O2
2888	Tellurous acid	10049-23-7	TAJ500	177.61	mg/m3	N	7.26	H2-Te-O3
2889	Terbium	7440-27-9	N.I.S.	158.93	mg/m3	N	6.50	Tr
2890	Terbium oxide	12036-41-8	N.I.S.	365.85	mg/m3	N	14.95	Tb2-O3
2891	Terbium(III,IV) oxide	12037-01-3	N.I.S.	747.70	mg/m3	N	30.56	Tb4.O7
2892	Terbufos	13071-79-9	BSO000	288.45	mg/m3	N	11.79	C9.H21.O2.P.S3
2893	Terephthalic acid	100-21-0	TAN750	166.14	mg/m3	Y	6.79	C8.H6.O4
2894	Terephthaloyl chloride	100-20-9	TAV250	203.02	mg/m3	Y	8.30	C8H4O2.Cl2
2895	Terphenyl; p-	92-94-4	TBC750	230.32	mg/m3	Y	9.41	C18H14
2896	Terphenyls; (Diphenylbenzene)	26140-60-3	TBD000	230.32	mg/m3	N	9.41	C18H14
2897	Tert-butyl alcohol; (tert-Butanol)	75-65-0	BPX000	74.14	ppm	N	3.03	C4H10O
2898	Tert-butyl benzoic acid, p-	98-73-7	BQK500	178.25	mg/m3	N	7.29	C11.H14.O2

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2885	Tellurium chloride	10026-07-0	?	224	380			3.26	D	
2886	Tellurium hexafluoride	7783-80-4	G	-37.6 subl	-38.9 subl	>760		2.499 @ -10C (L)	3	
2887	Tellurium oxide; (Tellurium dioxide)	7446-07-3	S	733	1245			5.89	3	
2888	Tellurous acid	10049-23-7	V						2	
2889	Terbium	7440-27-9	S	1356	3230			8.234	3	
2890	Terbium oxide	12036-41-8	S	2410				7.91		
2891	Terbium(III,IV) oxide	12037-01-3	S	2340						
2892	Terbufos	13071-79-9	L	-29	315	0.0003	25	1.105 @ 24C	3	
2893	Terephthalic acid	100-21-0	S		300 subl			1.51	2	
2894	Terephthaloyl chloride	100-20-9	S	83-84	266				2	
2895	Terphenyl; p-	92-94-4	S	212-213	259 @ 45 mm			1.234	2	
2896	Terphenyls; (Diphenylbenzene)	26140-60-3							2	
2897	Tert-butyl alcohol; (tert-Butanol)	75-65-0	L	25.5	82.8	40	24.5	0.781	3	23000
2898	Tert-butyl benzoic acid, p-	98-73-7	S	164.5				1.142 @ 20C	2	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2885	Tellurium chloride	10026-07-0	01/04/99				NA
2886	Tellurium hexafluoride	7783-80-4	08/21/96				NA
2887	Tellurium oxide; (Tellurium dioxide)	7446-07-3	08/21/96				NA
2888	Tellurous acid	10049-23-7					NA
2889	Terbium	7440-27-9					NA
2890	Terbium oxide	12036-41-8					NA
2891	Terbium(III,IV) oxide	12037-01-3					NA
2892	Terbufos	13071-79-9		02/28/08	02/28/08	GOEV, RTECS.	NA
2893	Terephthalic acid	100-21-0					1
2894	Terephthaloyl chloride	100-20-9					3
2895	Terphenyl; p-	92-94-4	08/07/98				NA
2896	Terphenyls; (Diphenylbenzene)	26140-60-3	01/04/99				NA
2897	Tert-butyl alcohol; (tert-Butanol)	75-65-0	01/04/99				2
2898	Tert-butyl benzoic acid, p-	98-73-7					NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2899	Tert-butyllithium	594-19-4	BRR750	64.06	mg/m3	N	2.62	C4.H9.Li
2900	Tert-butylphenol, p-; (Tert-butylphenol, 4-)	98-54-4	BSE500	150.24	mg/m3	Y	6.14	C10.H14.O
2901	Tert-butylpyridine, 4-	3978-81-2	N.I.S., etc.	135.21	mg/m3	N	5.53	C9.H13.N
2902	Tetraamminepalladium(II) nitrate	13601-08-6	TBI000	298.54	mg/m3	Y	12.20	[(H3N)4Pd]9NO3)2
2903	Tetrabromoethane, 1,1,2,2-; (Acetylene tetrabromide)	79-27-6	ACK250	345.68	ppm	Y	14.13	C2H2Br4
2904	Tetrabutyl ammonium phosphate	5574-97-0	N.I.S.	339.46	mg/m3	N	13.87	C16-H36-N.H2-O4-P
2905	Tetrabutyl titanate; (Butyl titanate)	5593-70-4	BSP250	340.42	ppm	N	13.91	Ti(OC4H9)4
2906	Tetrabutylammonium fluoride; (N,N,N-Tributyl-1-butanaminium, fluoride)	429-41-4	N.I.S.	261.46	mg/m3	N	10.69	C16.H36.N..F
2907	Tetrabutylammonium hydroxide	2052-49-5	TBK750	259.54	mg/m3	N	10.61	C16.H36.N..H.O
2908	Tetrabutylammonium nitrate	1941-27-1	TBL250	304.54	mg/m3	Y	12.45	C16.H36.N..N.O3
2909	Tetrachloro-1,2-difluoroethane, 1,1,2,2-	76-12-0	TBP050	203.82	ppm	N	8.33	C2.Cl4.F2
2910	Tetrachlorobenzene, 1,2,3,4-	634-66-2	TEN740	215.88	mg/m3	Y	8.82	C6H2Cl4
2911	Tetrachlorobenzene, 1,2,4,5-	95-94-3	TBN750	215.88	mg/m3	N	8.82	C6H2Cl4
2912	Tetrachlorodibenzofuran, 2,3,7,8-	51207-31-9	TBO850	305.96	mg/m3	N	12.51	C12H4Cl4O2

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2899	Tert-butyllithium	594-19-4	S subl @0.1C		Subl @ 0.1 C				3	
2900	Tert-butylphenol, p-; (Tert-butylphenol, 4-)	98-54-4	S	99	236-238	1	70	1.037	3	
2901	Tert-butylpyridine, 4-	3978-81-2	L	-41	196.5			0.915		
2902	Tetraamminepalladium(II) nitrate	13601-08-6	S						2	
2903	Tetrabromoethane, 1,1,2,2-; (Acetylene tetrabromide)	79-27-6	L	-1	151 @ 54 mm			2.9638	3	
2904	Tetrabutyl ammonium phosphate	5574-97-0								
2905	Tetrabutyl titanate; (Butyl titanate)	5593-70-4	L	-55	155			0.993	3	20000
2906	Tetrabutylammonium fluoride; (N,N,N-Tributyl-1-butanaminium, fluoride)	429-41-4	L soln					0.953	3	
2907	Tetrabutylammonium hydroxide	2052-49-5	L	25-40?				0.968	3	
2908	Tetrabutylammonium nitrate	1941-27-1	S hygr	118-120					3	
2909	Tetrachloro-1,2-difluoroethane, 1,1,2,2-	76-12-0	L/S	24.65	92.8			1.6447	3	
2910	Tetrachlorobenzene, 1,2,3,4-	634-66-2	S	46-47	254	0.039	25	1.7	2	
2911	Tetrachlorobenzene, 1,2,4,5-	95-94-3	S	138	245	<0.1	25	1.734	2	
2912	Tetrachlorodibenzofuran, 2,3,7,8-	51207-31-9	S	227-228					3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2899	Tert-butyllithium	594-19-4					NA
2900	Tert-butylphenol, p-; (Tert-butylphenol, 4-)	98-54-4					NA
2901	Tert-butylpyridine, 4-	3978-81-2					NA
2902	Tetraamminepalladium(II) nitrate	13601-08-6					NA
2903	Tetrabromoethane, 1,1,2,2-; (Acetylene tetrabromide)	79-27-6	01/04/99				3
2904	Tetrabutyl ammonium phosphate	5574-97-0	09/30/97		05/19/07	PNOS default.	NA
2905	Tetrabutyl titanate; (Butyl titanate)	5593-70-4	11/15/96				NA
2906	Tetrabutylammonium fluoride; (N,N,N-Tributyl-1-butanaminium, fluoride)	429-41-4					NA
2907	Tetrabutylammonium hydroxide	2052-49-5					NA
2908	Tetrabutylammonium nitrate	1941-27-1					NA
2909	Tetrachloro-1,2-difluoroethane, 1,1,2,2-	76-12-0		07/10/08	07/10/08	GOEV, RTECS	NA
2910	Tetrachlorobenzene, 1,2,3,4-	634-66-2					NA
2911	Tetrachlorobenzene, 1,2,4,5-	95-94-3	08/21/96				2
2912	Tetrachlorodibenzofuran, 2,3,7,8-	51207-31-9	09/30/97				NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2913	Tetrachlorodibenzo-p-dioxin, 1,2,3,8-	53555-02-5	TBO790	321.96	mg/m3	N	13.16	C12H4Cl4O2
2914	Tetrachloroethane (mixed isomers)	25322-20-7	TBP750	167.84	ppm	N	6.86	C2H2Cl4
2915	Tetrachloroethane, 1,1,1,2-	630-20-6	TBQ000	167.84	ppm	Y	6.86	C2H2Cl4
2916	Tetrachloroethane, 1,1,2,2-	79-34-5	TBQ100	167.84	ppm	N	6.86	CHCl2CHCl2
2917	Tetrachlorohexafluorobutane, 2,2,3,3-; (FLON; CFC316)	375-34-8	N.I.S.	303.84	ppm	N	12.42	C4Cl4F6
2918	**Tetrachlorosilane; (Silicon chloride)**	**10026-04-7**	SCQ500	169.89	ppm	Y	6.94	SiCl4
2919	Tetracosafluorotetradecahydro-phenanthrene; (Perfluorophenanthrene)	306-91-2	N.I.S.	624.09	mg/m3	N	25.51	C14-F24
2920	Tetracyanoquinodimethane	1518-16-7	TBW750	204.20	mg/m3	N	8.35	C12H4N4
2921	Tetracycline hydrochloride	64-75-5	TBX250	280.94	mg/m3	N	11.48	C22H24N2O8.ClH
2922	Tetradecafluorohexane; (Perfluoro-n-hexane; Fluorinert FC72)	355-42-0	N.I.S.	338.06	ppm	N	13.82	C6.F14
2923	Tetradecane; (N-tetradecane)	629-59-4	TBX750	198.44	ppm	Y	8.11	C14-H30
2924	Tetradecanoic acid; (Myristic acid)	544-63-8	MSA250	228.36	mg/m3	Y	9.33	C14-H28-O2
2925	Tetradecyltrimethylammonium bromide	1119-97-7	TCB200	336.47	mg/m3	N	13.75	C17.H38.N-Br
2926	Tetraethyl lead	78-00-2	TCF000	323.47	mg/m3	N	13.22	C8H20Pb

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2913	Tetrachlorodibenzo-p-dioxin, 1,2,3,8-	53555-02-5	S						D	
2914	Tetrachloroethane (mixed isomers)	25322-20-7	L						3	220000
2915	Tetrachloroethane, 1,1,1,2-	630-20-6	L	-68.1	135.1	14	25	1.542	2	49000
2916	Tetrachloroethane, 1,1,2,2-	79-34-5	L	-43.8	146.4	5	20	1.6	3	
2917	Tetrachlorohexafluorobutane, 2,2,3,3-; (FLON; CFC316)	375-34-8	G						2	
2918	**Tetrachlorosilane; (Silicon chloride)**	**10026-04-7**	L	-70	57.57			1.482	2	
2919	Tetracosafluorotetradecahydro-phenanthrene; (Perfluorophenanthrene)	306-91-2	L		217					
2920	Tetracyanoquinodimethane	1518-16-7	S	293.5 subl					3	
2921	Tetracycline hydrochloride	64-75-5	S	170-175	214 decom				3	
2922	Tetradecafluorohexane; (Perfluoro-n-hexane; Fluorinert FC72)	355-42-0	L	-88.2	56.6			1.6995 @ 20C		
2923	Tetradecane; (N-tetradecane)	629-59-4	L	5.5	253.7	0.0116	25	0.7628 @ 20C	2	5000
2924	Tetradecanoic acid; (Myristic acid)	544-63-8	S	54	326.2			0.8622 @ 54C	3	
2925	Tetradecyltrimethylammonium bromide	1119-97-7	S	245-250					3	
2926	Tetraethyl lead	78-00-2	L	125-150	198-202	1	38.4	1.65918	3	18000

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2913	Tetrachlorodibenzo-p-dioxin, 1,2,3,8-	53555-02-5	01/04/99				NA
2914	Tetrachloroethane (mixed isomers)	25322-20-7	09/30/97				NA
2915	Tetrachloroethane, 1,1,1,2-	630-20-6	08/21/96				NA
2916	Tetrachloroethane, 1,1,2,2-	79-34-5	08/21/96				NA
2917	Tetrachlorohexafluorobutane, 2,2,3,3-; (FLON; CFC316)	375-34-8					NA
2918	**Tetrachlorosilane; (Silicon chloride)**	**10026-04-7**	01/04/99	07/19/08	07/02/08	EPA.	NA
2919	Tetracosafluorotetradecahydro-phenanthrene; (Perfluorophenanthrene)	306-91-2					NA
2920	Tetracyanoquinodimethane	1518-16-7					NA
2921	Tetracycline hydrochloride	64-75-5					NA
2922	Tetradecafluorohexane; (Perfluoro-n-hexane; Fluorinert FC72)	355-42-0			05/18/07	RTECS	NA
2923	Tetradecane; (N-tetradecane)	629-59-4			06/07/07	RTECS	1
2924	Tetradecanoic acid; (Myristic acid)	544-63-8					NA
2925	Tetradecyltrimethylammonium bromide	1119-97-7					NA
2926	Tetraethyl lead	78-00-2	08/07/98				3

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2927	**Tetraethyl orthosilicate; (Ethyl silicate; Tetraethoxysilane)**	**78-10-4**	EPF550	208.37	ppm	Y	8.52	SiC8H20O4
2928	Tetraethyl pyrophosphate; (TEPP)	107-49-3	TCF250	290.22	mg/m3	Y	11.86	C8.H20.O7.P2
2929	Tetraethylammonium chloride	56-34-8	TCC250	165.74	mg/m3	N	6.77	C8.H20.N..Cl
2930	Tetraethylene glycol	112-60-7	TCE250	194.26	mg/m3	Y	7.94	C8.H18.O5
2931	Tetraethylene glycol diacrylate	17831-71-9	ADT050	302.36	mg/m3	Y	12.36	C14.H22.O7
2932	Tetraethylenepentamine	112-57-2	TCE500	189.36	mg/m3	Y	7.74	C8H23N5
2933	Tetraethyltin; (Tetraethylstannane)	597-64-8	TCF750	234.97	mg/m3	Y	9.60	Sn.C8H20
2934	**Tetrafluoroethane, 1,1,1,2-; (HFC 134a)**	**811-97-2**	EEC100	102.04	ppm	N	4.17	CH2FCF3
2935	Tetrafluoroethane, 1,1,2,2-; (HFC 134)	359-35-3	N.I.S.	102.03	ppm	N	4.17	C2.H2.F4
2936	**Tetrafluoroethylene**	**116-14-3**	TCH500	100.02	ppm	N	4.09	F2.C=CF2
2937	Tetrafluorohydrazine	10036-47-2	TCI000	104.00	ppm	Y	4.25	F2NNF2
2938	Tetrahydro-2,5-dimethyl furan	1003-38-9	Used TCQ250	100.18	mg/m3	Y	4.09	C6H12O
2939	**Tetrahydrofuran**	**109-99-9**	TCR750	72.12	ppm	Y	2.95	C4H8O
2940	Tetrahydrofuran-d8	1693-74-9	N.I.S., etc.	80.16	ppm	N	3.28	C4.D8.O

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2927	**Tetraethyl orthosilicate; (Ethyl silicate; Tetraethoxysilane)**	**78-10-4**	L	-77	165-166			0.933	3	13000
2928	Tetraethyl pyrophosphate; (TEPP)	107-49-3	L	0	310	0.00047	25	1.2	3	
2929	Tetraethylammonium chloride	56-34-8	S hygr.	39				1.08	3	
2930	Tetraethylene glycol	112-60-7	L	-6	327.3	1	153.9	1.1248 @ 20C	2	
2931	Tetraethylene glycol diacrylate	17831-71-9	S	112				1.125	2	
2932	Tetraethylenepentamine	112-57-2	L	-40	333	<0.01	20	0.998	3	8000
2933	Tetraethyltin; (Tetraethylstannane)	597-64-8	L	-112	181	2	25	1.187 @ 23C	3	
2934	**Tetrafluoroethane, 1,1,1,2-; (HFC 134a)**	**811-97-2**	G		-26.2	96	25	1.21 (L)	1	
2935	Tetrafluoroethane, 1,1,2,2-; (HFC 134)	359-35-3	G	-89	-19.9					
2936	**Tetrafluoroethylene**	**116-14-3**	G	-142	-78.4	>760			3	100000
2937	Tetrafluorohydrazine	10036-47-2	G	-163	-73			1.5 @ -100C	3	
2938	Tetrahydro-2,5-dimethyl furan	1003-38-9	L						3	
2939	**Tetrahydrofuran**	**109-99-9**	L	-108.5	65.4	132	20	0.888	3	15000
2940	Tetrahydrofuran-d8	1693-74-9	L	-106	65-66			0.985	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2927	**Tetraethyl orthosilicate; (Ethyl silicate; Tetraethoxysilane)**	**78-10-4**	11/15/96		08/16/07	AIHA.	2
2928	Tetraethyl pyrophosphate; (TEPP)	107-49-3			12/06/07	GOEV, EPA, NIOSH.	NA
2929	Tetraethylammonium chloride	56-34-8					NA
2930	Tetraethylene glycol	112-60-7					1
2931	Tetraethylene glycol diacrylate	17831-71-9	04/15/07				NA
2932	Tetraethylenepentamine	112-57-2	01/04/99				3
2933	Tetraethyltin; (Tetraethylstannane)	597-64-8					NA
2934	**Tetrafluoroethane, 1,1,1,2-; (HFC 134a)**	**811-97-2**	01/04/99	07/18/08	08/16/07	GOEV, EPA.	NA
2935	Tetrafluoroethane, 1,1,2,2-; (HFC 134)	359-35-3	04/15/07				NA
2936	**Tetrafluoroethylene**	**116-14-3**	10/31/92	06/30/08	06/30/08	GOEV, EPA.	2
2937	Tetrafluorohydrazine	10036-47-2					NA
2938	Tetrahydro-2,5-dimethyl furan	1003-38-9	03/01/00				NA
2939	**Tetrahydrofuran**	**109-99-9**	08/21/96	02/28/08	08/16/07	GOEV, AIHA.	2
2940	Tetrahydrofuran-d8	1693-74-9	04/15/07				NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2941	Tetrahydronaphthalene, 1,2,3,4-; (Tetralin)	119-64-2	TCX500	132.22	ppm	Y	5.40	C10.H12
2942	Tetrahydropyridine, 1,2,3,6-	694-05-3	N.I.S. etc.	83.13	ppm	N	3.40	C5.H9.N
2943	Tetramethoxypropane, 1,1,3,3-; (Malonaldehyde bis(dimethyl acetal))	102-52-3	N.I.S.	164.20	mg/m3	N	6.71	C7.H16.O4
2944	**Tetramethoxysilane; (Methyl silicate)**	**681-84-5**	MPI750	152.25	ppm	Y	6.22	C4H12O4Si
2945	Tetramethyl ammonium, tetrahydroborate(1-)	16883-45-7	TDJ500	89.02	mg/m3	Y	3.64	C4.H12.N..B.H4
2946	Tetramethyl ethylene diamine	110-18-9	TDQ750	116.24	ppm	Y	4.75	C6.H16.N2
2947	Tetramethyl lead	75-74-1	TDR500	267.35	mg/m3	N	10.93	(CH3)4Pb
2948	Tetramethyl-1,3-butanediamine, N,N,N',N'-; (Tetramethyl butanediamine)	97-84-7	TDN000	144.30	mg/m3	Y	5.90	C8H20N2
2949	Tetramethyl-3,5-heptanedione, 2,2,6,6-; (Dipivaloylmethane)	1118-71-4	N.I.S.	184.28	mg/m3	N	7.53	C11.H20.O2
2950	Tetramethyl-5-decyne-4,7-diol, 2,4,7,9-	126-86-3	N.I.S.	226.12	mg/m3	N	9.24	C14H26O2
2951	Tetramethylammonium chloride	75-57-0	TDK000	109.62	mg/m3	N	4.48	C4.H12.N..Cl
2952	Tetramethylammonium hydroxide	75-59-2	TDK500	91.18	mg/m3	Y	3.73	C4H12N·HO
2953	Tetramethylammonium hydroxide pentahydrate	10424-65-4	N.I.S.	181.23	mg/m3	Y	7.41	C4.H23.N.O6
2954	Tetramethylammonium silicate	53116-81-7	N.I.S. etc.	211.32	mg/m3	N	8.64	(C.H3)4.N(O.H)..2Si.O2

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2941	Tetrahydronaphthalene, 1,2,3,4-; (Tetralin)	119-64-2	L	-31	207.2	1	38	0.981	2	8000
2942	Tetrahydropyridine, 1,2,3,6-	694-05-3	L	-48	108			0.911		
2943	Tetramethoxypropane, 1,1,3,3-; (Malonaldehyde bis(dimethyl acetal))	102-52-3	S		183			0.997		
2944	**Tetramethoxysilane; (Methyl silicate)**	**681-84-5**	L	4 to 5	120-121			1.03 @ 22C	3	
2945	Tetramethyl ammonium, tetrahydroborate(1-)	16883-45-7	S	150				0.813	3	
2946	Tetramethyl ethylene diamine	110-18-9	L	-55	120 - 122			0.77	3	
2947	Tetramethyl lead	75-74-1	L	-27.5	110	0.2	20	1.99	3	18000
2948	Tetramethyl-1,3-butanediamine, N,N,N',N'-; (Tetramethyl butanediamine)	97-84-7	L						3	
2949	Tetramethyl-3,5-heptanedione, 2,2,6,6-; (Dipivaloylmethane)	1118-71-4	L		93 @ 35 mm			0.883		
2950	Tetramethyl-5-decyne-4,7-diol, 2,4,7,9-	126-86-3	L		~80					
2951	Tetramethylammonium chloride	75-57-0	S hygr.	> 300					3	
2952	Tetramethylammonium hydroxide	75-59-2	L					1	3	67000
2953	Tetramethylammonium hydroxide pentahydrate	10424-65-4	S	65						
2954	Tetramethylammonium silicate	53116-81-7	L soln					1.07		

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2941	Tetrahydronaphthalene, 1,2,3,4-; (Tetralin)	119-64-2	04/15/07				1
2942	Tetrahydropyridine, 1,2,3,6-	694-05-3					NA
2943	Tetramethoxypropane, 1,1,3,3-; (Malonaldehyde bis(dimethyl acetal))	102-52-3	04/15/07				1
2944	**Tetramethoxysilane; (Methyl silicate)**	**681-84-5**	09/30/97	07/18/08	12/31/07	GOEV, AEPA.	NA
2945	Tetramethyl ammonium, tetrahydroborate(1-)	16883-45-7					NA
2946	Tetramethyl ethylene diamine	110-18-9					NA
2947	Tetramethyl lead	75-74-1	03/01/00				2
2948	Tetramethyl-1,3-butanediamine, N,N,N',N'-; (Tetramethyl butanediamine)	97-84-7	01/04/99				NA
2949	Tetramethyl-3,5-heptanedione, 2,2,6,6-; (Dipivaloylmethane)	1118-71-4					NA
2950	Tetramethyl-5-decyne-4,7-diol, 2,4,7,9-	126-86-3	08/21/96				NA
2951	Tetramethylammonium chloride	75-57-0					NA
2952	Tetramethylammonium hydroxide	75-59-2	01/04/99				NA
2953	Tetramethylammonium hydroxide pentahydrate	10424-65-4					NA
2954	Tetramethylammonium silicate	53116-81-7					NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2955	Tetramethylbenzene, 1,2,3,5-	527-53-7	TDM500	134.24	mg/m3	N	5.49	C10.H14
2956	Tetramethylbenzene, 1,2,4,5-	95-93-2	TDM750	134.24	mg/m3	N	5.49	C10.H14
2957	Tetramethylbenzidine, 3,3',5,5'-	54827-17-7	TDM800	240.38	mg/m3	N	9.82	C16.H20.N2
2958	Tetramethylene sulfone; (Sulfolane; Tetrahydrothiophene-1,1-dioxide)	126-33-0	SNW500	120.18	mg/m3	N	4.91	C4.H8.O2.S
2959	Tetramethylsilane	75-76-3	TDV500	88.23	ppm	N	3.61	C4H12Si
2960	**Tetranitromethane**	**509-14-8**	TDY250	196.05	ppm	Y	8.01	C(NO2)4
2961	Tetraoxadodecane, 2,5,8,11-	112-49-2	TKL875	178.26	ppm	N	7.29	C8.H18.O4
2962	Tetraoxatetracosan-1-ol, 3,6,9,12-; ((Laurel alcohol tri(oxyethylene) ethanol; BRIJ 30)	5274-68-0	N.I.S.	362.55	mg/m3	N	14.82	C20.H42.O5
2963	Tetraphenylarsonium chloride; (Tetraphenylarsenium chloride)	507-28-8	TEA300	418.81	mg/m3	N	17.12	C24H20As.Cl
2964	Tetrapotassium ethylenediaminetetraacetate; (EDTA tetrapotassium salt)	5964-35-2	N.I.S.	444.64	mg/m3	N	18.17	C10-H12-N2-O8.4K
2965	Tetrapropoxysilane	682-01-9	N.I.S.	264.43	mg/m3	Y	10.81	C12.H28.O4.Si
2966	Tetrapropylammonium hydroxide	4499-86-9	TED000	203.42	mg/m3	N	8.31	C12H28N.HO
2967	Tetrapropylorthotitanate	3087-37-4	N.I.S.	284.22	mg/m3	N	11.62	C12.H28.O4..Ti
2968	Tetrasodium pyrophosphate	7722-88-5	TEE500	265.90	mg/m3	N	10.87	O7P2.4Na

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2955	Tetramethylbenzene, 1,2,3,5-	527-53-7	L	-24	197			0.896	3	
2956	Tetramethylbenzene, 1,2,4,5-	95-93-2	S	79.3	196			0.838 @ 81C	3	
2957	Tetramethylbenzidine, 3,3',5,5'-	54827-17-7	S	168-169.5					3	
2958	Tetramethylene sulfone; (Sulfolane; Tetrahydrothiophene-1,1-dioxide)	126-33-0	L/S	27.4-27.8	285			1.261	2	
2959	Tetramethylsilane	75-76-3	L/S	-99	26-28			0.648	3	
2960	**Tetranitromethane**	**509-14-8**	L	-49.4	126.1	8	20	1.650 @ 13C	3	
2961	Tetraoxadodecane, 2,5,8,11-	112-49-2	L	-45	216			0.986	3	
2962	Tetraoxatetracosan-1-ol, 3,6,9,12-; ((Laurel alcohol tri(oxyethylene) ethanol; BRIJ 30)	5274-68-0	L		247 @ 10C					
2963	Tetraphenylarsonium chloride; (Tetraphenylarsenium chloride)	507-28-8	S	258-260					3	
2964	Tetrapotassium ethylenediaminetetraacetate; (EDTA tetrapotassium salt)	5964-35-2	S							
2965	Tetrapropoxysilane	682-01-9	L		94			0.913	2	
2966	Tetrapropylammonium hydroxide	4499-86-9						1.012	3	
2967	Tetrapropylorthotitanate	3087-37-4	S	206 @ 100mm	170 @ 38C			1.04		
2968	Tetrasodium pyrophosphate	7722-88-5	S	993				2.534	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2955	Tetramethylbenzene, 1,2,3,5-	527-53-7					1
2956	Tetramethylbenzene, 1,2,4,5-	95-93-2					0
2957	Tetramethylbenzidine, 3,3',5,5'-	54827-17-7					NA
2958	Tetramethylene sulfone; (Sulfolane; Tetrahydrothiophene-1,1-dioxide)	126-33-0					1
2959	Tetramethylsilane	75-76-3					NA
2960	**Tetranitromethane**	**509-14-8**	08/21/96	07/18/08	08/16/07	EPA.	NA
2961	Tetraoxadodecane, 2,5,8,11-	112-49-2					1
2962	Tetraoxatetracosan-1-ol, 3,6,9,12-; ((Laurel alcohol tri(oxyethylene) ethanol; BRIJ 30)	5274-68-0					NA
2963	Tetraphenylarsonium chloride; (Tetraphenylarsenium chloride)	507-28-8	01/04/99				NA
2964	Tetrapotassium ethylenediaminetetraacetate; (EDTA tetrapotassium salt)	5964-35-2					NA
2965	Tetrapropoxysilane	682-01-9					NA
2966	Tetrapropylammonium hydroxide	4499-86-9	08/07/98				NA
2967	Tetrapropylorthotitanate	3087-37-4					NA
2968	Tetrasodium pyrophosphate	7722-88-5	08/07/98	07/10/08	07/10/08	GOEV, RTECS.	NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2969	Tetrazole, 1H-	288-94-8	TEF650	70.05	mg/m3	N	2.86	C.H2.N4
2970	Thallium	7440-28-0	TEI000	204.37	mg/m3	N	8.35	Tl
2971	Thallium chloride; (Thallium(I) chloride)	7791-12-0	TEJ250	239.82	mg/m3	N	9.80	TlCl
2972	Thallium hydroxide	12026-06-1	N.I.S.	221.39	mg/m3	N	9.05	Tl-OH
2973	Thallium nitrate; (Thallium(I) nitrate)	10102-45-1	TEK750	266.38	mg/m3	N	10.89	NO3.Tl
2974	Thallium nitrite	13826-63-6	N.I.S.	250.38	mg/m3	N	10.23	Tl-N-O2
2975	Thallium oxide	1314-12-1	TEL000	424.74	mg/m3	N	17.36	OTl2
2976	Thallium sulfate; (Sulfuric acid, dithallium(1+) salt)	10031-59-1	TEL750	1526.25	mg/m3	N	62.38	Tlx.SO4
2977	Thallium(I) acetate; (Acetic acid, thallium(1+) salt)	563-68-8	TEI250	263.42	mg/m3	N	10.77	Tl.C2H3O2
2978	Thallium(I) carbonate (2:1)	6533-73-9	TEJ000	468.75	mg/m3	N	19.16	Tl2CO3
2979	Thallium(I) sulfate; (Sulfuric acid, dithallium(1+) salt)	7446-18-6	TEM000	504.80	mg/m3	N	20.63	Tl2.SO4
2980	Thallium(III) oxide	1314-32-5	TEL050	456.74	mg/m3	N	18.67	Tl2.O3
2981	Thallium(III) perchlorate hexahydrate	15596-83-5	N.I.S. etc.	610.83	mg/m3	Y	24.97	Tl.(Cl.O4)3..6H2.O
2982	Thallous malonate	2757-18-8	TEM399	510.79	mg/m3	N	20.88	2Tl.C3H2O4

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2969	Tetrazole, 1H-	288-94-8	S	156-158					3	
2970	Thallium	7440-28-0	S	303.5	1457	1	825	11.85	3	
2971	Thallium chloride; (Thallium(I) chloride)	7791-12-0	S	430	720	10	517	7.004 @ 30C	3	
2972	Thallium hydroxide	12026-06-1	S	139 dec				7.44		
2973	Thallium nitrate; (Thallium(I) nitrate)	10102-45-1	S	206	430			5.55	3	
2974	Thallium nitrite	13826-63-6	S					5.7		
2975	Thallium oxide	1314-12-1	S	579	~1080			9.52	3	
2976	Thallium sulfate; (Sulfuric acid, dithallium(1+) salt)	10031-59-1	S	632	decom			6.77	3	
2977	Thallium(I) acetate; (Acetic acid, thallium(1+) salt)	563-68-8	S	131				3.68	3	
2978	Thallium(I) carbonate (2:1)	6533-73-9	S	273	dec	<1E-6	25	7.11	3	
2979	Thallium(I) sulfate; (Sulfuric acid, dithallium(1+) salt)	7446-18-6	S	632	decom			6.77	3	
2980	Thallium(III) oxide	1314-32-5	S	717	1196			9.65	3	
2981	Thallium(III) perchlorate hexahydrate	15596-83-5	S							
2982	Thallous malonate	2757-18-8	S						3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2969	Tetrazole, 1H-	288-94-8					NA
2970	Thallium	7440-28-0	08/21/96				NA
2971	Thallium chloride; (Thallium(I) chloride)	7791-12-0	11/15/96				NA
2972	Thallium hydroxide	12026-06-1					NA
2973	Thallium nitrate; (Thallium(I) nitrate)	10102-45-1	09/30/97				NA
2974	Thallium nitrite	13826-63-6					NA
2975	Thallium oxide	1314-12-1					NA
2976	Thallium sulfate; (Sulfuric acid, dithallium(1+) salt)	10031-59-1					NA
2977	Thallium(I) acetate; (Acetic acid, thallium(1+) salt)	563-68-8					NA
2978	Thallium(I) carbonate (2:1)	6533-73-9	11/15/96				NA
2979	Thallium(I) sulfate; (Sulfuric acid, dithallium(1+) salt)	7446-18-6		05/22/08	05/22/08	GOEV, RTECS.	NA
2980	Thallium(III) oxide	1314-32-5	08/21/96		01/11/08	RTECS	NA
2981	Thallium(III) perchlorate hexahydrate	15596-83-5					NA
2982	Thallous malonate	2757-18-8					NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2983	Thenoyltrifluoroacetone	326-91-0	N.I.S.	222.09	mg/m3	N	9.08	C8H5F3O2S
2984	Thioacetamide	62-55-5	TFA000	75.14	mg/m3	N	3.07	C2H5NS
2985	Thioacetic acid	507-09-5	TFA500	76.12	ppm	N	3.11	C2.H4.O.S
2986	Thiobis(4-chloro-6-methyl)phenol, 2,2'-	4418-66-0	DMN000	315.22	mg/m3	N	12.88	C14.H12.Cl2.O2.S
2987	Thiocarbazide; (Thiocarbohydrazide)	2231-57-4	TFE250	106.17	mg/m3	N	4.34	CH6N4S
2988	Thiocresol, p-; (p-Toluenethiol)	106-45-6	TGP250	124.21	mg/m3	N	5.08	C7.H8.S
2989	Thiocyanic acid, compound with guanidine (1:1); (Guanidene thiocyanate salt)	593-84-0	TFF250	118.18	mg/m3	N	4.83	C.H5.N3..C.H.N.S
2990	Thiodiglycol	111-48-8	TFI500	122.20	mg/m3	Y	4.99	C4H10O2S
2991	Thiofanox; (Dacamox)	39196-18-4	DAB400	218.35	mg/m3	N	8.92	NC9H18 N2O2S
2992	Thionazin; (Ethyl pyrazinyl phosphorothioate)	297-97-2	EPC500	248.26	mg/m3	N	10.15	C8H13N2O3PS
2993	**Thionyl chloride**	**7719-09-7**	TFL000	118.96	ppm	Y	4.86	Cl2OS
2994	Thiophosphoryl chloride	3982-91-0	TFO000	169.38	mg/m3	N	6.92	Cl3.P.S
2995	Thiosemicarbazide	79-19-6	TFQ000	91.15	mg/m3	N	3.73	CH5N3S
2996	Thiourea	62-56-6	ISR000	76.13	mg/m3	Y	3.11	CH4N2S

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2983	Thenoyltrifluoroacetone	326-91-0	S	40-44	96 @ 88 mm					
2984	Thioacetamide	62-55-5	S	113					3	
2985	Thioacetic acid	507-09-5	L fuming	<-17	93			1.064	3	
2986	Thiobis(4-chloro-6-methyl)phenol, 2,2'-	4418-66-0	S		443	1E-07	25		3	
2987	Thiocarbazide; (Thiocarbohydrazide)	2231-57-4	S	164					3	
2988	Thiocresol, p-; (p-Toluenethiol)	106-45-6	S	43-44	195	0.807	25	1.2475 @ 55C	3	
2989	Thiocyanic acid, compound with guanidine (1:1); (Guanidene thiocyanate salt)	593-84-0	S	114-117					3	
2990	Thiodiglycol	111-48-8	L	-16	164-166 @ 20mm			1.1847 @ 20C	2	
2991	Thiofanox; (Dacamox)	39196-18-4	S	56.5->					3	
2992	Thionazin; (Ethyl pyrazinyl phosphorothioate)	297-97-2	L	-1.7	80	0.003	30	1.204-1.210	3	
2993	**Thionyl chloride**	**7719-09-7**	L	-105	78.8	100	21.4	1.640 @ 15.5C	3	
2994	Thiophosphoryl chloride	3982-91-0	L	-35	125	16,35	25	1.635	3	
2995	Thiosemicarbazide	79-19-6	S	182-184					3	
2996	Thiourea	62-56-6	S	177	dec			1.405	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2983	Thenoyltrifluoroacetone	326-91-0	08/21/96				NA
2984	Thioacetamide	62-55-5	08/21/96				NA
2985	Thioacetic acid	507-09-5					NA
2986	Thiobis(4-chloro-6-methyl)phenol, 2,2'-	4418-66-0					NA
2987	Thiocarbazide; (Thiocarbohydrazide)	2231-57-4					NA
2988	Thiocresol, p-; (p-Toluenethiol)	106-45-6					NA
2989	Thiocyanic acid, compound with guanidine (1:1); (Guanidene thiocyanate salt)	593-84-0					NA
2990	Thiodiglycol	111-48-8					2
2991	Thiofanox; (Dacamox)	39196-18-4	08/21/96				NA
2992	Thionazin; (Ethyl pyrazinyl phosphorothioate)	297-97-2					NA
2993	**Thionyl chloride**	**7719-09-7**	01/04/99	07/18/08	07/01/08	AIHA, EPA.	4
2994	Thiophosphoryl chloride	3982-91-0					NA
2995	Thiosemicarbazide	79-19-6	08/21/96				NA
2996	Thiourea	62-56-6	08/21/96				NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
2997	Thiram; (Tetramethylthioperoxydicarbonic diamide)	137-26-8	TFS350	240.44	mg/m3	Y	9.83	C6H12N2S4
2998	Thorium	7440-29-1	TFS750	232.00	mg/m3	N	9.48	Th
2999	Thorium hydroxide	13825-36-0	N.I.S.	300.07	mg/m3	N	12.26	Th(OH)4
3000	Thorium nitrite	z-0079	N.I.S.	416.03	mg/m3	N	17.00	Th(NO2)4
3001	Thorium oxalate	2040-52-0	N.I.S.	444.03	mg/m3	N	18.15	Th.C4.O8..2(H2.O)
3002	Thorium oxide; (Thorium dioxide)	1314-20-1	TFT750	264.00	mg/m3	N	10.79	O2Th
3003	Thorium perchlorate	16045-17-3	N.I.S. etc.	331.49	mg/m3	N	13.55	Th.Cl.O4
3004	Thorium(IV) nitrate	13823-29-5	TFT500	480.04	mg/m3	N	19.62	N4O12.Th
3005	Thulium	7440-30-4	TFW250	168.93	mg/m3	N	6.90	Tm
3006	Thulium chloride	13537-18-3	TFW500	275.28	mg/m3	Y	11.25	Tm.Cl3
3007	Thulium oxide	12036-44-1	N.I.S.	385.87	mg/m3	N	15.77	Tm2-O3
3008	Thymol blue; (6,6-(3H-2,1-benzoxathiol-3-ylidene)dithymol, S,S-dioxide)	76-61-9	TFX850	466.63	mg/m3	N	19.07	C27.H30.O5.S
3009	Thyodene; (Amylodextrin)	9005-84-9	N.I.S.		mg/m3	N		[Unknown]
3010	Tin	7440-31-5	TGB250	118.71	mg/m3	N	4.85	Sn

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
2997	Thiram; (Tetramethylthioperoxydicarbonic diamide)	137-26-8	S	156	129 @ 20 C	0.000017	25	1.3	3	
2998	Thorium	7440-29-1	S	1750	4500			11.72	3	
2999	Thorium hydroxide	13825-36-0	S							
3000	Thorium nitrite	z-0079	S							
3001	Thorium oxalate	2040-52-0	S	300-400 dec.				4.637 @ 16C		
3002	Thorium oxide; (Thorium dioxide)	1314-20-1	S	3390	4400			9.7	3	
3003	Thorium perchlorate	16045-17-3	S							
3004	Thorium(IV) nitrate	13823-29-5	S	500 dec					3	
3005	Thulium	7440-30-4	S	1545	1950			9.32	3	
3006	Thulium chloride	13537-18-3	S	824	1440				3	
3007	Thulium oxide	12036-44-1	S	2425				8.6		
3008	Thymol blue; (6,6-(3H-2,1-benzoxathiol-3-ylidene)dithymol, S,S-dioxide)	76-61-9	S	223					D	
3009	Thyodene; (Amylodextrin)	9005-84-9	S							
3010	Tin	7440-31-5	S	231.9	2625	1	1492	7.31	2	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
2997	Thiram; (Tetramethylthioperoxydicarbonic diamide)	137-26-8		07/10/08	07/10/08	GOEV, NIOSH, RTECS.	NA
2998	Thorium	7440-29-1	08/07/98				NA
2999	Thorium hydroxide	13825-36-0					NA
3000	Thorium nitrite	z-0079					
3001	Thorium oxalate	2040-52-0					NA
3002	Thorium oxide; (Thorium dioxide)	1314-20-1	08/07/98				NA
3003	Thorium perchlorate	16045-17-3					NA
3004	Thorium(IV) nitrate	13823-29-5	08/07/98				NA
3005	Thulium	7440-30-4					NA
3006	Thulium chloride	13537-18-3	08/07/98				NA
3007	Thulium oxide	12036-44-1	08/07/98				NA
3008	Thymol blue; (6,6-(3H-2,1-benzoxathiol-3-ylidene)dithymol, S,S-dioxide)	76-61-9	01/04/99				NA
3009	Thyodene; (Amylodextrin)	9005-84-9					NA
3010	Tin	7440-31-5	11/15/96	05/28/08	05/28/08	GOEV, NIOSH, RTECS.	NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
3011	Tin fluoroborate	13814-97-6	N.I.S.	292.30	mg/m3	N	11.95	B2.F8..Sn
3012	Tin hydroxide	12026-24-3	N.I.S.	152.73	mg/m3	N	6.24	Sn-(OH)2
3013	Tin nitrate	41480-79-9	N.I.S. etc.	242.68	mg/m3	N	9.92	Sn-(N-O3)2
3014	Tin nitrite	100737-27-7	N.I.S. etc.	210.69	mg/m3	N	8.61	Sn-(N-O2)2
3015	Tin(II) chloride dihydrate; (Stannous chloride dihydrate)	10025-69-1	TGC275	225.63	mg/m3	N	9.22	Sn.Cl..2H2.O
3016	Tin(II) oxide	1332-29-2	TGE300	150.69	mg/m3	N	6.16	Sn-O2
3017	Tin(II) sulfate; (Stannous sulfate)	7488-55-3	TGF010	214.75	mg/m3	N	8.78	Sn..S.O4
3018	Tin(IV) isopropoxide	1184-61-8	N.I.S. etc.	415.15	mg/m3	Y	16.97	C15.H36.O5.Sn
3019	Tin(IV) oxide; (Stannic oxide)	18282-10-5	N.I.S.	150.69	mg/m3	N	6.16	Sn.O2
3020	Titanium	7440-32-6	TGF250	47.90	mg/m3	N	1.96	Ti
3021	Titanium aluminide	39410-63-4	N.I.S.	74.86	mg/m3	N	3.06	Ti.Al
3022	Titanium boride	12045-63-5	N.I.S.	69.50	mg/m3	N	2.84	Ti.B2
3023	Titanium carbide	12070-08-5	TGG000	59.91	mg/m3	N	2.45	Ti.C
3024	Titanium chloride	7705-07-9	TGG250	154.25	mg/m3	Y	6.30	Cl3Ti

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
3011	Tin fluoroborate	13814-97-6	S							
3012	Tin hydroxide	12026-24-3	S							
3013	Tin nitrate	41480-79-9	S							
3014	Tin nitrite	100737-27-7	S							
3015	Tin(II) chloride dihydrate; (Stannous chloride dihydrate)	10025-69-1	S	37.7	652			2.71	3	
3016	Tin(II) oxide	1332-29-2	S	1630	1800+ subl			6.95	2	
3017	Tin(II) sulfate; (Stannous sulfate)	7488-55-3	S	378 dec				4.15	2	
3018	Tin(IV) isopropoxide	1184-61-8	S							
3019	Tin(IV) oxide; (Stannic oxide)	18282-10-5	S	1630	1800 dec			6.95		
3020	Titanium	7440-32-6	S	1677	3277			4.5	3	
3021	Titanium aluminide	39410-63-4	S							
3022	Titanium boride	12045-63-5	S	2593 - 2980	3899			4.5 - 4.53		
3023	Titanium carbide	12070-08-5	S	3067	4820			4.93	3	
3024	Titanium chloride	7705-07-9	L	-30	136.4	10	21.3	1.772	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
3011	Tin fluoroborate	13814-97-6	06/27/07		06/27/07	GOEV, NIOSH.	NA
3012	Tin hydroxide	12026-24-3			08/26/07	GOEV, NIOSH.	NA
3013	Tin nitrate	41480-79-9			08/26/07	GOEV, NIOSH.	NA
3014	Tin nitrite	100737-27-7			08/26/07	GOEV, NIOSH.	
3015	Tin(II) chloride dihydrate; (Stannous chloride dihydrate)	10025-69-1			08/26/07	GOEV, NIOSH.	NA
3016	Tin(II) oxide	1332-29-2	08/07/98	05/28/08	05/28/08	GOEV, NIOSH.	NA
3017	Tin(II) sulfate; (Stannous sulfate)	7488-55-3			08/26/07	GOEV, NIOSH.	NA
3018	Tin(IV) isopropoxide	1184-61-8		05/28/08	05/28/08	GOEV, NIOSH.	NA
3019	Tin(IV) oxide; (Stannic oxide)	18282-10-5		05/28/08	05/28/08	GOEV, RTECS.	NA
3020	Titanium	7440-32-6	08/21/96				NA
3021	Titanium aluminide	39410-63-4					NA
3022	Titanium boride	12045-63-5					NA
3023	Titanium carbide	12070-08-5					NA
3024	Titanium chloride	7705-07-9	08/07/98				NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
3025	Titanium hydride	7704-98-5	N.I.S.	49.92	mg/m3	N	2.04	Ti.H2
3026	Titanium oxide; (Titanium dioxide)	13463-67-7	TGG760	79.90	mg/m3	Y	3.27	O2Ti
3027	**Titanium tetrachloride**	**7550-45-0**	TGH350	189.70	ppm	Y	7.75	Ti.Cl4
3028	Titanium(II) oxide	12137-20-1	TGG500	63.88	mg/m3	N	2.61	TiO
3029	Titanium(III) fluoride	13470-08-1	TGG500	104.88	mg/m3	Y	4.29	TiF3
3030	Titanium-based alloy; (Titanium compounds)	z-0081	TGG500		mg/m3	N		[Unspecified]
3031	**Toluene**	**108-88-3**	TGK750	92.15	ppm	Y	3.77	C6.H5.CH3
3032	Toluene diisocyanate (mixed isomers)	26471-62-5	TGM740	174.17	ppm	Y	7.12	C9H6N2O2
3033	**Toluene-2,4-diisocyanate; (TDI)**	**584-84-9**	TGM750	174.17	ppm	Y	7.12	CH3C6H3 (NCO)2
3034	Toluene-2,6-diamine; (2-Methyl-1,3-benzenediamine)	823-40-5	TGM100	122.19	mg/m3	N	4.99	C7H10N2
3035	**Toluene-2,6-diisocyanate**	**91-08-7**	TGM800	174.17	ppm	Y	7.12	C9H6N2O2
3036	Toluene-d8; (Deuterated toluene)	2037-26-5	N.I.S. etc.	100.19	ppm	Y	4.09	C7.D8
3037	Toluenediamine, 2,4-; (2,4-Diaminotoluene)	95-80-7	TGL750	122.19	mg/m3	Y	4.99	C7H10N2
3038	Toluenesulfonamide, p-; (Pasam)	70-55-3	TGN500	171.23	mg/m3	N	7.00	C7.H9.N.O2.S

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
3025	Titanium hydride	7704-98-5								
3026	Titanium oxide; (Titanium dioxide)	13463-67-7	S	18	1860 dec			4.26	1	
3027	**Titanium tetrachloride**	**7550-45-0**	L	-24	136.4	12	25	1.726	3	
3028	Titanium(II) oxide	12137-20-1	S						D	
3029	Titanium(III) fluoride	13470-08-1	S	1200	1400			3.4	D	
3030	Titanium-based alloy; (Titanium compounds)	z-0081	S						D	
3031	**Toluene**	**108-88-3**	L	-95	111.1	20	18.3	0.866	3	11000
3032	Toluene diisocyanate (mixed isomers)	26471-62-5							3	9000
3033	**Toluene-2,4-diisocyanate; (TDI)**	**584-84-9**	S/L	21.7	251.1	0.01	25	1.2244	3	9000
3034	Toluene-2,6-diamine; (2-Methyl-1,3-benzenediamine)	823-40-5	S	105			2.13 kPa	150	3	
3035	**Toluene-2,6-diisocyanate**	**91-08-7**	L		129-133 @18mm				3	
3036	Toluene-d8; (Deuterated toluene)	2037-26-5	L	-84	110			0.94		
3037	Toluenediamine, 2,4-; (2,4-Diaminotoluene)	95-80-7	S	99	292	1	107		3	
3038	Toluenesulfonamide, p-; (Pasam)	70-55-3		138 (anhyd);	221 @ 10 mm Hg	0.000096	25		3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
3025	Titanium hydride	7704-98-5					NA
3026	Titanium oxide; (Titanium dioxide)	13463-67-7	07/09/97				NA
3027	**Titanium tetrachloride**	**7550-45-0**	10/31/92	07/18/08	08/13/07	AIHA, EPA.	3
3028	Titanium(II) oxide	12137-20-1					NA
3029	Titanium(III) fluoride	13470-08-1	08/07/98				NA
3030	Titanium-based alloy; (Titanium compounds)	z-0081	08/07/98				
3031	**Toluene**	**108-88-3**	10/31/92	02/05/08	12/06/07	GOEV, EPA	2
3032	Toluene diisocyanate (mixed isomers)	26471-62-5	03/01/00				3
3033	**Toluene-2,4-diisocyanate; (TDI)**	**584-84-9**	08/21/96	07/18/08	08/16/07	GOEV, EPA	3
3034	Toluene-2,6-diamine; (2-Methyl-1,3-benzenediamine)	823-40-5					NA
3035	**Toluene-2,6-diisocyanate**	**91-08-7**	03/01/00	07/16/08	08/16/07	GOEV, EPA	NA
3036	Toluene-d8; (Deuterated toluene)	2037-26-5	04/15/07		11/21/07	GOEV, EPA	NA
3037	Toluenediamine, 2,4-; (2,4-Diaminotoluene)	95-80-7	09/30/97		11/21/07	GOEV, RTECS	NA
3038	Toluenesulfonamide, p-; (Pasam)	70-55-3					NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
3039	Toluenesulfonic acid, methyl ester, p-	80-48-8	MLL250	186.24	mg/m3	Y	7.61	C8.H10.O3.S
3040	Toluenesulfonyl chloride, p-	98-59-9	TGO250	190.64	mg/m3	Y	7.79	C7.H7.Cl.O2.S
3041	Toluenesulphonic acid monohydrate, para-; (4-Methylbenzenesulphonic acid	6192-52-5	N.I.S.	190.23	mg/m3	N	7.77	C7.H8.O3.S
3042	Toluenethiol, m-	108-40-7	TGO800	124.21	mg/m3	N	5.08	C7H8S
3043	Toluidine, m-; (3-Methylaniline)	108-44-1	TGQ500	107.17	ppm	Y	4.38	C7.H9.N
3044	Toluidine, o-	95-53-4	TGQ750	107.17	ppm	Y	4.38	C.H3.C6.H4..NH2
3045	Toluidine, p-; (4-Methylbenzenamine)	106-49-0	TGR000	107.17	mg/m3	Y	4.38	C7.H9.N
3046	Toxaphene; (Chlorinated camphene)	8001-35-2	CDV100	413.80	mg/m3	Y	16.91	C10H10Cl8
3047	Trans-1,4-dichlorobutene; (2-Butylene dichloride)	110-57-6	BRG000	125.00	ppm	Y	5.11	C4H6Cl2
3048	Transformer oil; (Mineral oil, petroleum distillates, hydrotreated (mild) light	64742-53-6	MQV800		mg/m3	Y		
3049	Tri(2-ethylhexyl) phosphate; (Tris(2-ethylhexyl)phosphate)	78-42-2	TNI250	434.72	mg/m3	Y	17.77	C24H51O4P
3050	Triacetin; (Triacetyl glycerin)	102-76-1	THM500	218.23	mg/m3	Y	8.92	C9H14O6
3051	Triamiphos	1031-47-6	AIX000	294.34	mg/m3	N	12.03	C12H19N6OP
3052	Triaryl sulfonium chloride salts	109037-76-5	N.I.S.	284.04	mg/m3	Y	11.61	C6.H6..Cl2.S2..Cl2

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
3039	Toluenesulfonic acid, methyl ester, p-	80-48-8	S	27.5	144.5 @5mm			1.230-1.238	3	
3040	Toluenesulfonyl chloride, p-	98-59-9	S hygr	69 - 71	152 @ 20 mm	1	88	1.33	1	
3041	Toluenesulphonic acid monohydrate, para-; (4-Methylbenzenesulphonic acid	6192-52-5	S	107	140 @ 20 mm				2	
3042	Toluenethiol, m-	108-40-7							3	
3043	Toluidine, m-; (3-Methylaniline)	108-44-1	L	-43.6	203.3	1	41	0.989	3	11000
3044	Toluidine, o-	95-53-4	L	-14.4	200	0.3	20	1.004	3	15000
3045	Toluidine, p-; (4-Methylbenzenamine)	106-49-0	L	42	200.4	1	42	1.046 @ 20C	3	11000
3046	Toxaphene; (Chlorinated camphene)	8001-35-2	S	65-90				1.66 @ 27C	3	11000
3047	Trans-1,4-dichlorobutene; (2-Butylene dichloride)	110-57-6	L	35797	156	6	25	1.183 @ 25C	3	40000
3048	Transformer oil; (Mineral oil, petroleum distillates, hydrotreated (mild) light	64742-53-6	L		>154			0.889	3	
3049	Tri(2-ethylhexyl) phosphate; (Tris(2-ethylhexyl)phosphate)	78-42-2	L	-74	226.9	0.03	20	0.9077	2	
3050	Triacetin; (Triacetyl glycerin)	102-76-1	L	-78	258			1.161	3	10000
3051	Triamiphos	1031-47-6	S	167-168	400	1E-07	25		3	
3052	Triaryl sulfonium chloride salts	109037-76-5	S							

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
3039	Toluenesulfonic acid, methyl ester, p-	80-48-8					2
3040	Toluenesulfonyl chloride, p-	98-59-9					NA
3041	Toluenesulphonic acid monohydrate, para-; (4-Methylbenzenesulphonic acid	6192-52-5					NA
3042	Toluenethiol, m-	108-40-7	01/04/99				NA
3043	Toluidine, m-; (3-Methylaniline)	108-44-1	01/04/99				NA
3044	Toluidine, o-	95-53-4	08/21/96				3
3045	Toluidine, p-; (4-Methylbenzenamine)	106-49-0					3
3046	Toxaphene; (Chlorinated camphene)	8001-35-2	08/21/96	02/28/08		GOEV, EPA, NIOSH.	NA
3047	Trans-1,4-dichlorobutene; (2-Butylene dichloride)	110-57-6					NA
3048	Transformer oil; (Mineral oil, petroleum distillates, hydrotreated (mild) light	64742-53-6					NA
3049	Tri(2-ethylhexyl) phosphate; (Tris(2-ethylhexyl)phosphate)	78-42-2	08/07/98				NA
3050	Triacetin; (Triacetyl glycerin)	102-76-1	03/01/00				0
3051	Triamiphos	1031-47-6					NA
3052	Triaryl sulfonium chloride salts	109037-76-5	09/30/97				NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
3053	Triazine-1,3,5(2H,4H,6H)-triethanol, s-; (Onyxide 200)	4719-04-4	THR820	219.33	mg/m3	N	8.96	C9H21N3O3
3054	Triazofos; (Triazophos)	24017-47-8	THT750	313.34	mg/m3	N	12.81	C12H16N3O3PS
3055	Tribenzylamine	620-40-6	N.I.S.	287.40	mg/m3	N	11.75	C21.H21.N
3056	Tributyl citrate	77-94-1	THY100	360.50	ppm	N	14.73	C18.H22.O7
3057	Tributyl phosphate	126-73-8	TIA250	266.36	ppm	Y	10.89	(C4H9)3.PO4
3058	Tributyl(2,4-dichlorobenzyl)phosphonium chloride	115-78-6	THY500	397.83	mg/m3	Y	16.26	C19H32Cl2P.Cl
3059	Tributyl-1-butanaminium iodide, N,N,N-; (Tetrabutylammonium iodide)	311-28-4	TBL000	369.43	mg/m3	N	15.10	C16.H36.N.I
3060	Tributylphosphine	998-40-3	TIA300	202.36	ppm	N	8.27	C12.H27.P
3061	Tributyltetradecylphosphonium chloride	81741-28-8	N.I.S.		mg/m3	N		[Unknown]
3062	Trichloramine; (Nitrogen chloride)	10025-85-1	NGQ500	120.36	ppm	N	4.92	Cl3N
3063	**Trichloro(dichlorophenyl) silane; (Dichlorophenyltrichlorosilane)**	**27137-85-5**	DGF200	280.43	ppm	Y	11.46	C6H3Cl5Si
3064	Trichloro-2,2,2-trifluoroethane, 1,1,1-	354-58-5	TJE100	187.37	mg/m3	N	7.66	C2Cl3F3
3065	Trichloroacetaldehyde hydrate; (Chloral hydrate)	302-17-0	CDO000	165.40	mg/m3	N	6.76	C2HCl3O.H2O
3066	Trichloroacetaldehyde; (Chloral)	75-87-6	CDN550	147.38	mg/m3	N	6.02	C2HCl3O

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
3053	Triazine-1,3,5(2H,4H,6H)-triethanol, s-; (Onyxide 200)	4719-04-4	S						2	
3054	Triazofos; (Triazophos)	24017-47-8	L	5	350	0.00001	25	1.25 @ 20C	3	
3055	Tribenzylamine	620-40-6	S	90-92	380-390			0.9912		
3056	Tributyl citrate	77-94-1	L	-20	233 @ 20C			1.05	2	
3057	Tributyl phosphate	126-73-8	L	<-80.0	289 dec	0.07		0.982	3	
3058	Tributyl(2,4-dichlorobenzyl)phosphonium chloride	115-78-6	S	114-120					3	
3059	Tributyl-1-butanaminium iodide, N,N,N-; (Tetrabutylammonium iodide)	311-28-4	S	146-148				1.2	2	
3060	Tributylphosphine	998-40-3	L		240	16	121	0.812	1	
3061	Tributyltetradecylphosphonium chloride	81741-28-8	S							
3062	Trichloramine; (Nitrogen chloride)	10025-85-1	L	< -40	< 71	150	20	1.653	3	
3063	**Trichloro(dichlorophenyl) silane; (Dichlorophenyltrichlorosilane)**	**27137-85-5**	L		260	70	25	1.562	3	
3064	Trichloro-2,2,2-trifluoroethane, 1,1,1-	354-58-5	L	14.2	45.8	360	25	1.579	3	
3065	Trichloroacetaldehyde hydrate; (Chloral hydrate)	302-17-0	S	52	97.5			1.9	3	
3066	Trichloroacetaldehyde; (Chloral)	75-87-6	L	-57.5	97.7	35		1.505	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
3053	Triazine-1,3,5(2H,4H,6H)-triethanol, s-; (Onyxide 200)	4719-04-4	01/04/99				NA
3054	Triazofos; (Triazophos)	24017-47-8					NA
3055	Tribenzylamine	620-40-6					NA
3056	Tributyl citrate	77-94-1					1
3057	Tributyl phosphate	126-73-8	08/21/96				3
3058	Tributyl(2,4-dichlorobenzyl)phosphonium chloride	115-78-6					NA
3059	Tributyl-1-butanaminium iodide, N,N,N-; (Tetrabutylammonium iodide)	311-28-4					NA
3060	Tributylphosphine	998-40-3					1
3061	Tributyltetradecylphosphonium chloride	81741-28-8					NA
3062	Trichloramine; (Nitrogen chloride)	10025-85-1					NA
3063	**Trichloro(dichlorophenyl) silane; (Dichlorophenyltrichlorosilane)**	**27137-85-5**		07/19/08	07/02/08	EPA.	NA
3064	Trichloro-2,2,2-trifluoroethane, 1,1,1-	354-58-5					NA
3065	Trichloroacetaldehyde hydrate; (Chloral hydrate)	302-17-0	11/15/96				NA
3066	Trichloroacetaldehyde; (Chloral)	75-87-6	09/30/97				NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
3067	Trichloroacetic acid	76-03-9	TII250	163.38	ppm	Y	6.68	C2HCl3O2
3068	Trichloroacetyl chloride	76-02-8	TIJ150	181.82	ppm	Y	7.43	C2-Cl4-O
3069	Trichlorobenzene, 1,2,3-	87-61-6	TIK100	181.44	mg/m3	N	7.42	C6H3Cl3
3070	Trichlorobenzene, 1,2,4-	120-82-1	TIK250	181.44	ppm	Y	7.42	C6H3Cl3
3071	**Trichloroethane, 1,1,1-; (Methyl chloroform)**	**71-55-6**	MIH275	133.40	ppm	Y	5.45	CH3CCl3
3072	Trichloroethane, 1,1,2-	79-00-5	TIN000	133.40	ppm	Y	5.45	CHCl2CH2Cl
3073	Trichloroethanol, 2,2,2-	115-20-8	TIN500	149.40	mg/m3	N	6.11	C2.H3.Cl3.O
3074	**Trichloroethylene**	**79-01-6**	TIO750	131.38	ppm	Y	5.37	CH.Cl=C.Cl2
3075	**Trichloroethylsilane; (Ethyl trichlorosilane)**	**115-21-9**	EPY500	163.51	ppm	Y	6.68	C2H5Cl3Si
3076	Trichlorofluoromethane; (Fluorotrichloromethane, Freon 11)	75-69-4	TIP500	137.36	ppm	Y	5.61	C.Cl3.F
3077	Trichlorohydroxyethyl dimethylphosphonate; ((2,2,2-Trichloro-1-hydroxyethyl)dimethylphosphonate; Trichlorphon)	52-68-6	TIQ250	257.44	mg/m3	N	10.52	C4.H8.C13.O4.P
3078	Trichloroisocyanuric acid	87-90-1	TIQ750	232.41	mg/m3	Y	9.50	C3.Cl3.N3.O3
3079	Trichloronaphthalene	1321-65-9	TIT500	231.50	mg/m3	N	9.46	C10.H5.Cl3

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
3067	Trichloroacetic acid	76-03-9	S del	57.7	197.5	1	51	1.62	3	
3068	Trichloroacetyl chloride	76-02-8	L	-146	114-116	21.32	25	1.629	2	
3069	Trichlorobenzene, 1,2,3-	87-61-6	S	52.6	221			1.69	2	
3070	Trichlorobenzene, 1,2,4-	120-82-1	L	17	213	1	38	1.454	3	25000
3071	**Trichloroethane, 1,1,1-; (Methyl chloroform)**	**71-55-6**	L	-30.6	73.9	100	20	1.3376	3	75000
3072	Trichloroethane, 1,1,2-	79-00-5	L	-36.7	113.9	23.25	25	1.4416	3	60000
3073	Trichloroethanol, 2,2,2-	115-20-8	S/L	17.8	150	1	20	1.54	3	
3074	**Trichloroethylene**	**79-01-6**	L	-72.8	87.2	58	20	1.4649	3	79000
3075	**Trichloroethylsilane; (Ethyl trichlorosilane)**	**115-21-9**	L	-105.6	97.9	47.18	25	1.24 @ 25C	3	
3076	Trichlorofluoromethane; (Fluorotrichloromethane, Freon 11)	75-69-4	L<23.9	-111.1	23.9	690	20	1.48 @ 17.2C	2	
3077	Trichlorohydroxyethyl dimethylphosphonate; ((2,2,2-Trichloro-1-hydroxyethyl)dimethylphosphonate; Trichlorphon)	52-68-6	S	83-84	100 @ 1 mmHg			1.73 @ 20C	3	
3078	Trichloroisocyanuric acid	87-90-1	S	235				> 1	2	
3079	Trichloronaphthalene	1321-65-9	S	92.78	304.44 - 354.44			1.58	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
3067	Trichloroacetic acid	76-03-9	01/04/99				NA
3068	Trichloroacetyl chloride	76-02-8					NA
3069	Trichlorobenzene, 1,2,3-	87-61-6	09/30/97				NA
3070	Trichlorobenzene, 1,2,4-	120-82-1	08/21/96				2
3071	**Trichloroethane, 1,1,1-; (Methyl chloroform)**	**71-55-6**	08/21/96	02/05/08	08/16/07	EPA.	2
3072	Trichloroethane, 1,1,2-	79-00-5	08/21/96				NA
3073	Trichloroethanol, 2,2,2-	115-20-8	04/15/07				NA
3074	**Trichloroethylene**	**79-01-6**	10/31/92	02/05/08	08/16/07	GOEV, EPA.	2
3075	**Trichloroethylsilane; (Ethyl trichlorosilane)**	**115-21-9**			06/30/08	EPA	3
3076	Trichlorofluoromethane; (Fluorotrichloromethane, Freon 11)	75-69-4	10/31/92	02/28/08		GOEV, NAS, NIOSH.	NA
3077	Trichlorohydroxyethyl dimethylphosphonate; ((2,2,2-Trichloro-1-hydroxyethyl)dimethylphosphonate; Trichlorphon)	52-68-6			08/30/07		NA
3078	Trichloroisocyanuric acid	87-90-1	09/17/07		09/17/07	RTECS.	2
3079	Trichloronaphthalene	1321-65-9		02/28/08		GOEV, NIOSH.	NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
3080	Trichloronate; (Ethyl trichlorophenylethylphosphonothioate)	327-98-0	EPY000	333.60	mg/m3	N	13.63	C10H12Cl3O2PS
3081	Trichlorophenol, 2,3,6-	933-75-5	TIV500	197.44	mg/m3	N	8.07	C6H3Cl3O
3082	Trichlorophenol, 2,4,5-	95-95-4	TIV750	197.44	mg/m3	N	8.07	C6H3Cl3O
3083	Trichlorophenol, 2,4,6-	88-06-2	TIW000	197.44	mg/m3	N	8.07	C6H3Cl3O
3084	Trichlorophenoxy)propionic acid, 2-(2,4,5-; (Silvex)	93-72-1	TIX500	269.51	mg/m3	N	11.02	C9H7Cl3O
3085	Trichlorophenoxyacetic acid, 2,4,5-; (2,4,5-T)	93-76-5	TAA100	255.48	mg/m3	N	10.44	C8H5Cl3O3
3086	**Trichlorophenylsilane**	**98-13-5**	TJA750	211.55	ppm	Y	8.65	C6H5ClSi
3087	Trichloropropane, 1,2,3-	96-18-4	TJB600	147.43	ppm	Y	6.03	CH2ClCHCl CH2Cl
3088	**Trichlorosilane**	**10025-78-2**	TJD500	135.45	ppm	Y	5.54	Cl3HSi
3089	Trichlorotrifluoroethane; (Freon 113; CFC113)	76-13-1	FOO000	187.37	ppm	Y	7.66	CF3.C.Cl3
3090	Tridecane	629-50-5	TJH500	184.41	ppm	Y	7.54	C13.H28
3091	Tridodecylamine; (Alamine 304; N,N-didodecyl-1-dodecanamine)	102-87-4	N.I.S.	522.00	mg/m3	N	21.33	C36.H75.N
3092	Triethanolamine; (Trihydroxytriethylamine)	102-71-6	TKP500	149.22	mg/m3	Y	6.10	C6H15NO3
3093	**Triethoxysilane**	**998-30-1**	TJM750	164.31	ppm	N	6.72	C6H12O3sI

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
3080	Trichloronate; (Ethyl trichlorophenylethylphosphonothioate)	327-98-0	L		360	20	25	1.365 @ 20C	3	
3081	Trichlorophenol, 2,3,6-	933-75-5	S	58	253				3	
3082	Trichlorophenol, 2,4,5-	95-95-4	S	61-63	252	1	72	1.678	3	
3083	Trichlorophenol, 2,4,6-	88-06-2	S	68	244.5	1	77	1.675	3	
3084	Trichlorophenoxy)propionic acid, 2-(2,4,5-; (Silvex)	93-72-1	S	182					3	
3085	Trichlorophenoxyacetic acid, 2,4,5-; (2,4,5-T)	93-76-5	S	151-3					3	
3086	**Trichlorophenylsilane**	**98-13-5**	L		201			1.321 @ 25C	3	
3087	Trichloropropane, 1,2,3-	96-18-4	L	-15	156.17			13888	3	32000
3088	**Trichlorosilane**	**10025-78-2**	L	-126.5	31.8	fumes		1.336	3	12000
3089	Trichlorotrifluoroethane; (Freon 113; CFC113)	76-13-1	L	-35	47.8	285	20	1.5702	1	
3090	Tridecane	629-50-5	L	-5.3	235.4	0.056	25	0.7564	2	
3091	Tridodecylamine; (Alamine 304; N,N-didodecyl-1-dodecanamine)	102-87-4	L	16.4	220			0.824	2	
3092	Triethanolamine; (Trihydroxytriethylamine)	102-71-6	L	21.6	360	10	205	1.1258	2	10000
3093	**Triethoxysilane**	**998-30-1**	L	-170	132.5			0.8745 @ 20C	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
3080	Trichloronate; (Ethyl trichlorophenylethylphosphonothioate)	327-98-0					NA
3081	Trichlorophenol, 2,3,6-	933-75-5					NA
3082	Trichlorophenol, 2,4,5-	95-95-4	08/21/96				NA
3083	Trichlorophenol, 2,4,6-	88-06-2	08/21/96				NA
3084	Trichlorophenoxy)propionic acid, 2-(2,4,5-; (Silvex)	93-72-1	08/21/96				NA
3085	Trichlorophenoxyacetic acid, 2,4,5-; (2,4,5-T)	93-76-5	08/21/96				NA
3086	**Trichlorophenylsilane**	**98-13-5**			06/27/08	EPA	3
3087	Trichloropropane, 1,2,3-	96-18-4	09/30/97				2
3088	**Trichlorosilane**	**10025-78-2**	07/09/97	07/19/08	07/02/08	EPA.	3
3089	Trichlorotrifluoroethane; (Freon 113; CFC113)	76-13-1	10/31/92				NA
3090	Tridecane	629-50-5	01/04/99				NA
3091	Tridodecylamine; (Alamine 304; N,N-didodecyl-1-dodecanamine)	102-87-4					NA
3092	Triethanolamine; (Trihydroxytriethylamine)	102-71-6	09/30/97				2
3093	**Triethoxysilane**	**998-30-1**					2

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
3094	Triethoxyvinylsilane	78-08-0	TJN250	190.35	ppm	N	7.78	C8.H18.O3.Si
3095	Triethyl phosphate; (TEP)	78-40-0	TJT750	182.18	mg/m3	Y	7.45	C6.H15.O4.P
3096	Triethyl phosphite	122-52-1	TJT800	166.18	ppm	Y	6.79	C6H15O3P
3097	Triethylaluminum	97-93-8	TJN750	114.19	mg/m3	Y	4.67	C6.H15.Al
3098	Triethylamine	121-44-8	TJO000	101.22	ppm	Y	4.14	C6H15N
3099	Triethylammonium bicarbonate buffer ph 8.5	15715-58-9	N.I.S. etc.		mg/m3	N		
3100	Triethylbenzene (mixed isomers)	25340-18-5	TJO750	162.30	ppm	N	6.63	C12H18
3101	Triethylene glycol	112-27-6	TJQ000	150.20	mg/m3	Y	6.14	C6H14O4
3102	Triethylene glycol monomethyl ether	112-35-6	TJQ750	164.23	mg/m3	Y	6.71	C7H16O4
3103	Triethylenetetramine	112-24-3	TJR000	146.28	ppm	Y	5.98	C6H18N4
3104	Triethylethanaminium hydroxide, N,N,N-; (Tetraethyl ammonium hydroxide)	77-98-5	TCC500	147.30	mg/m3	N	6.02	C8.H20.N..H.O
3105	Triethyloxonium tetrafluoroborate	368-39-8	TJL600	190.02	mg/m3	N	7.77	C6.H15.O..B.F4
3106	TrietHylphosphorothioate; (Tepto)	126-68-1	TJU000	198.24	ppm	N	8.10	C6.H15.O3.P.S
3107	Trifluoro-1-(2-thienyl)-1,3-butanedione, 4,4,4-, boron difluoride	22502-27-8	N.I.S.	272.01	mg/m3	N	11.12	C8-H6-B-F5-O2-S

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
3094	Triethoxyvinylsilane	78-08-0	L		160.62 @ 20	2.25	20	0.901	1	30000
3095	Triethyl phosphate; (TEP)	78-40-0	L	-56.4	215.5	0.39	25	1.0725 @ 19C	2	17000
3096	Triethyl phosphite	122-52-1	L		156			1.413	3	37000
3097	Triethylaluminum	97-93-8	L	-52.5	194	4	83	0.837 @ 20C	3	
3098	Triethylamine	121-44-8	L	-114.8	89.5			0.7255	3	12000
3099	Triethylammonium bicarbonate buffer ph 8.5	15715-58-9								
3100	Triethylbenzene (mixed isomers)	25340-18-5	L	<-70	218-219			0.87	3	6670
3101	Triethylene glycol	112-27-6	L	-4.3	285	1	114	1.122	3	9000
3102	Triethylene glycol monomethyl ether	112-35-6	L	-44	249			1.0494	1	
3103	Triethylenetetramine	112-24-3	L	12	272	<0.01	20	0.982	3	
3104	Triethylethanaminium hydroxide, N,N,N-; (Tetraethyl ammonium hydroxide)	77-98-5	S solu-tion						3	
3105	Triethyloxonium tetrafluoroborate	368-39-8	S						3	
3106	TrietHylphosphorothioate; (Tepto)	126-68-1	L		93.2-94			1.074	3	
3107	Trifluoro-1-(2-thienyl)-1,3-butanedione, 4,4,4-, boron difluoride	22502-27-8	S							

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
3094	Triethoxyvinylsilane	78-08-0					NA
3095	Triethyl phosphate; (TEP)	78-40-0	01/04/99		08/25/07	RTECS	1
3096	Triethyl phosphite	122-52-1	01/04/99				NA
3097	Triethylaluminum	97-93-8					3
3098	Triethylamine	121-44-8	01/04/99				3
3099	Triethylammonium bicarbonate buffer ph 8.5	15715-58-9					NA
3100	Triethylbenzene (mixed isomers)	25340-18-5	08/07/98				NA
3101	Triethylene glycol	112-27-6	01/04/99				1
3102	Triethylene glycol monomethyl ether	112-35-6	01/04/99				1
3103	Triethylenetetramine	112-24-3	01/04/99				3
3104	Triethylethanaminium hydroxide, N,N,N-; (Tetraethyl ammonium hydroxide)	77-98-5					NA
3105	Triethyloxonium tetrafluoroborate	368-39-8					NA
3106	TrietHylphosphorothioate; (Tepto)	126-68-1			08/26/07	RTECS	NA
3107	Trifluoro-1-(2-thienyl)-1,3-butanedione, 4,4,4-, boron difluoride	22502-27-8	08/07/98				NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
3108	Trifluoro-4-nitro-m-cresol, alpha,alpha,alpha-; (4-Nitro-3-(trifluoromethyl)phenol)	88-30-2	TKD400	207.12	mg/m3	N	8.47	C7.H4.F3.N.O3
3109	Trifluoroacetaldehyde hydrate; (2,2,2-Trifluoro-1,1-ethanediol)	421-53-4	TJZ000	116.05	mg/m3	N	4.74	C2.H3.F3.O2
3110	Trifluoroacetic acid anhydride	407-25-0	TJX000	210.04	mg/m3	N	8.58	C4.F6.O3
3111	Trifluoroacetic acid; (Trifluoroethanoic acid)	76-05-1	TKA250	114.03	ppm	N	4.66	C2HF3O2
3112	Trifluoroacetyl chloride	354-32-5	TJX500	132.47	ppm	Y	5.41	C2ClF3O
3113	Trifluoroethanol, 2,2,2-; (Trifluoroethyl alcohol)	75-89-8	TKA350	100.05	ppm	Y	4.09	C2.H3.F3.O
3114	Trifluoromethanesulfonic acid; (Triflic acid)	1493-13-6	TKB310	150.08	ppm	Y	6.13	C.H.F3.O3.S
3115	Trifluoromethanesulfonic anhydride	358-23-6	N.I.S.	282.14	mg/m3	N	11.53	(C.F3.S.O2)2O
3116	Trifluoromethyl iodide; (Iodotrifluoromethane)	2314-97-8	IFM100	195.91	ppm	N	8.01	C.F3.I
3117	Trifluoromethyl)benzenamine, 3-(; (m-Aminobenzal fluoride)	98-16-8	AID500	161.14	mg/m3	N	6.59	C7H6F3N
3118	Trifluralin; (2,6-Dinitro-N,N-dipropyl-4-(trifluoromethyl) benzenamine)	1582-09-8	DUV600	335.32	mg/m3	N	13.70	C13H16 F3N3.O4
3119	Triisobutylaluminum	100-99-2	TKR500	198.30	mg/m3	Y	8.10	(C4.H9)3.Al
3120	Trimethoxy(3,3,3-fluoropropyl) silane	429-60-7	N.I.S.	218.25	mg/m3	N	8.92	C8.H13.F3.O3.Si
3121	Trimethoxyboroxine	102-24-9	TKZ100	173.55	mg/m3	N	7.09	C3.H9.B3.O6

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
3108	Trifluoro-4-nitro-m-cresol, alpha,alpha,alpha-; (4-Nitro-3-(trifluoromethyl)phenol)	88-30-2	S	76-79	135-138				3	
3109	Trifluoroacetaldehyde hydrate; (2,2,2-Trifluoro-1,1-ethanediol)	421-53-4							2	
3110	Trifluoroacetic acid anhydride	407-25-0	L	-65	39.5			1.49	2	
3111	Trifluoroacetic acid; (Trifluoroethanoic acid)	76-05-1	L	-15.25	71.1			1.535	3	
3112	Trifluoroacetyl chloride	354-32-5	L						2	
3113	Trifluoroethanol, 2,2,2-; (Trifluoroethyl alcohol)	75-89-8	L	-44	103 - 105			1.288	3	
3114	Trifluoromethanesulfonic acid; (Triflic acid)	1493-13-6	L	-40	162			1.696	3	
3115	Trifluoromethanesulfonic anhydride	358-23-6	L		81-83	8	20	1.677	3	
3116	Trifluoromethyl iodide; (Iodotrifluoromethane)	2314-97-8	G	<-78	-22.5			2.3607 @ 32C	3	
3117	Trifluoromethyl)benzenamine, 3-(; (m-Aminobenzal fluoride)	98-16-8	L	3	189			1.303	3	
3118	Trifluralin; (2,6-Dinitro-N,N-dipropyl-4-(trifluoromethyl) benzenamine)	1582-09-8	S	48.5-49	139-140 @ 4mm				2	
3119	Triisobutylaluminum	100-99-2	L	6	86 @ 10 mm	1	47	0.7859 @ 20C	3	
3120	Trimethoxy(3,3,3-fluoropropyl) silane	429-60-7	S							
3121	Trimethoxyboroxine	102-24-9	S					1.4	1	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
3108	Trifluoro-4-nitro-m-cresol, alpha,alpha,alpha-; (4-Nitro-3-(trifluoromethyl)phenol)	88-30-2					NA
3109	Trifluoroacetaldehyde hydrate; (2,2,2-Trifluoro-1,1-ethanediol)	421-53-4					NA
3110	Trifluoroacetic acid anhydride	407-25-0					NA
3111	Trifluoroacetic acid; (Trifluoroethanoic acid)	76-05-1	01/04/99				NA
3112	Trifluoroacetyl chloride	354-32-5					NA
3113	Trifluoroethanol, 2,2,2-; (Trifluoroethyl alcohol)	75-89-8					NA
3114	Trifluoromethanesulfonic acid; (Triflic acid)	1493-13-6					NA
3115	Trifluoromethanesulfonic anhydride	358-23-6					NA
3116	Trifluoromethyl iodide; (Iodotrifluoromethane)	2314-97-8					NA
3117	Trifluoromethyl)benzenamine, 3-(; (m-Aminobenzal fluoride)	98-16-8					NA
3118	Trifluralin; (2,6-Dinitro-N,N-dipropyl-4-(trifluoromethyl) benzenamine)	1582-09-8	09/30/97				NA
3119	Triisobutylaluminum	100-99-2					3
3120	Trimethoxy(3,3,3-fluoropropyl) silane	429-60-7					NA
3121	Trimethoxyboroxine	102-24-9					NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
3122	**Trimethoxysilane**	**2487-90-3**	TLB750	122.22	ppm	Y	5.00	C3H10O3Si
3123	Trimethoxysilyl)-1-propanamine, 3-(	13822-56-5	N.I.S.	179.29	mg/m3	N	7.33	C6.H17.N.O3..Si
3124	Trimethoxysilyl-1-Propanethiol, 3-; (3-Mercaptopropyltrimethoxysilane)	4420-74-0	TLC000	196.37	mg/m3	Y	8.03	C6.H16.03.S..Si
3125	Trimethoxysilylpropyl methacrylate, 3-; (Silane A-174)	2530-85-0	TLC250	248.39	mg/m3	Y	10.15	C10.H20.O5.Si
3126	Trimethoxysilylpropyl) ethylenediamine, N-(3-	1760-24-3	TLC500	222.41	mg/m3	Y	9.09	C8.H22.N2.O3.Si
3127	Trimethoxyvinylsilane; (Vinyltrimethoxysilane; Silane, trimethoxyvinyl)	2768-02-7	TLD000	148.26	ppm	N	6.06	C5.H12.O3.Si
3128	Trimethyl borate	121-43-7	TLN000	103.93	ppm	Y	4.25	C3.H9..B.O3
3129	Trimethyl N', 2-hydroxyethyl-propylenediamine	82136-26-3	N.I.S. etc.		mg/m3	N		
3130	Trimethyl phosphate; (TMP)	512-56-1	TMD250	140.09	ppm	N	5.73	(CH3)3P:O
3131	Trimethyl phosphite	121-45-9	TMD500	124.09	ppm	Y	5.07	(CH3))3P
3132	Trimethyl-1,3-pentanediol monoisobutyrate, 2,2,4-; (Texanol)	25265-77-4	TEG500	216.36	mg/m3	N	8.84	C12H24O3
3133	Trimethyl-1-pentene, 2,4,4-; (Diisobutylene)	107-39-1	N.I.S.	112.21	ppm	N	4.59	C8.H16
3134	Trimethyl-2,5,8,11-tetraoxatetradecan-13-ol, 4,7,10-	20324-34-9	N.I.S. etc.	264.36	mg/m3	N	10.80	C13.H28.O5
3135	Trimethyl-2-hexene, 4,4,5-	55702-61-9	N.I.S. etc.	126.00	mg/m3	N	5.15	(CH3)3-C6-H9

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
3122	**Trimethoxysilane**	**2487-90-3**	L	-115	84			0.96	2	
3123	Trimethoxysilyl)-1-propanamine, 3-(	13822-56-5	L							
3124	Trimethoxysilyl-1-Propanethiol, 3-; (3-Mercaptopropyltrimethoxysilane)	4420-74-0	L		93-94			1.015	2	
3125	Trimethoxysilylpropyl methacrylate, 3-; (Silane A-174)	2530-85-0	L	<-50	190			1.045	1	
3126	Trimethoxysilylpropyl) ethylenediamine, N-(3-	1760-24-3	L		146 @ 15 mm			1.01	3	
3127	Trimethoxyvinylsilane; (Vinyltrimethoxysilane; Silane, trimethoxyvinyl)	2768-02-7	L		123			1.13	1	
3128	Trimethyl borate	121-43-7	L	-29	68	137	25	0.92 @ 20C	3	
3129	Trimethyl N', 2-hydroxyethyl-propylenediamine	82136-26-3								
3130	Trimethyl phosphate; (TMP)	512-56-1	L		197.2			1.97 @ 19.5C	3	
3131	Trimethyl phosphite	121-45-9	L	-78	111-112			1.046	3	22000
3132	Trimethyl-1,3-pentanediol monoisobutyrate, 2,2,4-; (Texanol)	25265-77-4							2	6000
3133	Trimethyl-1-pentene, 2,4,4-; (Diisobutylene)	107-39-1	L	-93.5	101.4	44.7	25	0.715 @ 20C	2	7000
3134	Trimethyl-2,5,8,11-tetraoxatetradecan-13-ol, 4,7,10-	20324-34-9								
3135	Trimethyl-2-hexene, 4,4,5-	55702-61-9								

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
3122	**Trimethoxysilane**	**2487-90-3**	11/15/96	07/18/08	01/02/08	GOEV, AIHA, EPA.	4
3123	Trimethoxysilyl)-1-propanamine, 3-(	13822-56-5					NA
3124	Trimethoxysilyl-1-Propanethiol, 3-; (3-Mercaptopropyltrimethoxysilane)	4420-74-0					NA
3125	Trimethoxysilylpropyl methacrylate, 3-; (Silane A-174)	2530-85-0					NA
3126	Trimethoxysilylpropyl) ethylenediamine, N-(3-	1760-24-3					NA
3127	Trimethoxyvinylsilane; (Vinyltrimethoxysilane; Silane, trimethoxyvinyl)	2768-02-7			08/24/07	RTECS	NA
3128	Trimethyl borate	121-43-7					1
3129	Trimethyl N', 2-hydroxyethyl-propylenediamine	82136-26-3	06/27/07	06/05/08	06/27/07	Estimated	NA
3130	Trimethyl phosphate; (TMP)	512-56-1	01/04/99				NA
3131	Trimethyl phosphite	121-45-9	03/01/00				1
3132	Trimethyl-1,3-pentanediol monoisobutyrate, 2,2,4-; (Texanol)	25265-77-4	01/04/99				1
3133	Trimethyl-1-pentene, 2,4,4-; (Diisobutylene)	107-39-1					1
3134	Trimethyl-2,5,8,11-tetraoxatetradecan-13-ol, 4,7,10-	20324-34-9	03/01/00				NA
3135	Trimethyl-2-hexene, 4,4,5-	55702-61-9	03/01/00				NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
3136	Trimethyl-2-oxepanone (mixed isomers); (Hexanoic acid, 6-hydroxytrimethyl, epsilon-	64047-30-9	TLY000	156.25	mg/m3	N	6.39	C9.H16.O2
3137	Trimethylacetic acid; (Pivalic acid)	75-98-9	PJA500	102.15	mg/m3	N	4.18	C5.H10.O2
3138	Trimethylacetyl chloride; (Pivaloyl chloride)	3282-30-2	DTS400	120.59	ppm	Y	4.93	C5.H9.Cl.O
3139	Trimethylaluminum	75-24-1	TLD272	72.09	mg/m3	N	2.95	C3.H9.Al
3140	**Trimethylamine**	**75-50-3**	TLD500	59.13	ppm	Y	2.42	(CH3)3.N
3141	Trimethylaniline, 2,4,6-	88-05-1	TLG500	135.23	mg/m3	Y	5.53	C9H13N
3142	**Trimethylbenzene, 1,2,3-**	**526-73-8**	TLL500	120.21	ppm	Y	4.91	C9H12
3143	**Trimethylbenzene, 1,2,4-; (Pseudocumene)**	**95-63-6**	TLL750	120.21	ppm	N	4.91	C9H12
3144	Trimethylbicyclo(3.1.1)-2-hept-2-ene, 2,6,6-; (alpha-Pinene)	80-56-8	PIH250	136.26	mg/m3	Y	5.57	C10H16
3145	**Trimethylchlorosilane**	**75-77-4**	TLN250	108.66	ppm	Y	4.44	C3H9ClSi
3146	Trimethyldecane, 2,2,8-	62238-01-1	N.I.S. etc.	184.00	ppm	Y	7.52	C13H28
3147	Trimethyldecane, 2,5,6-	62108-23-0	N.I.S. etc.	184.00	ppm	Y	7.52	C13H28
3148	Trimethyldecane, 3,3,4-	49622-18-6	N.I.S. etc.	184.00	ppm	Y	7.52	C13-H28
3149	Trimethylene oxide; (Oxetane)	503-30-0	OMW000	58.09	mg/m3	N	2.37	C3.H6.O

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
3136	Trimethyl-2-oxepanone (mixed isomers); (Hexanoic acid, 6-hydroxytrimethyl, epsilon-	64047-30-9							3	
3137	Trimethylacetic acid; (Pivalic acid)	75-98-9	S	35.5	163.8			0.91	2	
3138	Trimethylacetyl chloride; (Pivaloyl chloride)	3282-30-2	L		107			1.003 @ 20C	3	
3139	Trimethylaluminum	75-24-1	S	15	125-126	69.3	60	0.752	3	
3140	**Trimethylamine**	**75-50-3**	G	-117.2	2.87	340	25	0.662 @ -5C	3	20000
3141	Trimethylaniline, 2,4,6-	88-05-1	L	-5	232			0.96	3	
3142	**Trimethylbenzene, 1,2,3-**	**526-73-8**	L	-25.4	176.1	2.10	25	0.894	3	8000
3143	**Trimethylbenzene, 1,2,4-; (Pseudocumene)**	**95-63-6**	L	-43.8	168.9	1	13.3	0.888 @ 4C	3	8000
3144	Trimethylbicyclo(3.1.1)-2-hept-2-ene, 2,6,6-; (alpha-Pinene)	80-56-8	L	-55	155	10	37.3	0.8592	3	
3145	**Trimethylchlorosilane**	**75-77-4**	L	-40	57			0.854	3	18000
3146	Trimethyldecane, 2,2,8-	62238-01-1	L							5500
3147	Trimethyldecane, 2,5,6-	62108-23-0	L							5500
3148	Trimethyldecane, 3,3,4-	49622-18-6	L						2	5500
3149	Trimethylene oxide; (Oxetane)	503-30-0	L	-97	47.6	324	25	0.893	2	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
3136	Trimethyl-2-oxepanone (mixed isomers); (Hexanoic acid, 6-hydroxytrimethyl, epsilon-	64047-30-9	08/07/98		08/30/07	SAX	NA
3137	Trimethylacetic acid; (Pivalic acid)	75-98-9	04/15/07				NA
3138	Trimethylacetyl chloride; (Pivaloyl chloride)	3282-30-2					NA
3139	Trimethylaluminum	75-24-1	04/15/07				3
3140	**Trimethylamine**	**75-50-3**	10/31/92		06/27/08	GOEV, EPA.	3
3141	Trimethylaniline, 2,4,6-	88-05-1					NA
3142	**Trimethylbenzene, 1,2,3-**	**526-73-8**	01/04/99	07/18/08	12/28/07	GOEV, EPA.	1
3143	**Trimethylbenzene, 1,2,4-; (Pseudocumene)**	**95-63-6**	08/21/96	02/05/08	12/28/07	GOEV, EPA, RTECS.	1
3144	Trimethylbicyclo(3.1.1)-2-hept-2-ene, 2,6,6-; (alpha-Pinene)	80-56-8	01/04/99				1
3145	**Trimethylchlorosilane**	**75-77-4**	08/07/98	02/05/08	08/16/07	EPA.	3
3146	Trimethyldecane, 2,2,8-	62238-01-1					NA
3147	Trimethyldecane, 2,5,6-	62108-23-0					NA
3148	Trimethyldecane, 3,3,4-	49622-18-6					NA
3149	Trimethylene oxide; (Oxetane)	503-30-0					NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
3150	Trimethylgallium	1445-79-0	TLT000	114.80	mg/m3	N	4.69	C3.H9.Ga
3151	Trimethylhexane, 2,2,5-	3522-94-9	TLT200	128.29	ppm	Y	5.24	C9-H20
3152	Trimethyloctane	98060-52-7	N.I.S. etc.	156.31	ppm	Y	6.39	C11-.H24
3153	Trimethyloctane, 2,2,6-	62016-28-8	N.I.S. etc.	156.31	ppm	Y	6.39	C11-H24
3154	Trimethyloctane, 2,3,7-	62016-34-6	N.I.S. etc.	156.31	ppm	Y	6.39	C11-H24
3155	Trimethyloctane, 2,4,6-	62016-37-9	N.I.S. etc.	156.31	ppm	Y	6.39	C11-H24
3156	Trimethyloctane, 2,6,6-	54166-32-4	N.I.S. etc.	156.31	ppm	Y	6.39	C11-H24
3157	Trimethylolpropane ethoxylate	50586-59-9	N.I.S.		mg/m3	N		(C2.H4.O)n(C2.H4.O)n(C2.H4.O)n..C 6.H14.O3
3158	Trimethylolpropane phosphite	824-11-3	TNI750	162.14	mg/m3	Y	6.63	C6-H11-O3-P
3159	Trimethylopropane methylated copolymer	71342-93-3	N.I.S.		mg/m3	N		(C9.H6.N2.O2..C6.H10.O2)x
3160	Trimethylphosphine	594-09-2	TMD275	76.08	ppm	Y	3.11	(C.H3)3.P
3161	Trimethylpyridine, 2,4,6-	108-75-8	TME272	121.20	ppm	Y	4.95	C8-H11-N
3162	Trimethylsilanol	1066-40-6	N.I.S.	90.00	ppm	N	3.68	C3-H10-O-Si
3163	Trimethylsilylmethyllithium	1822-00-0	N.I.S. etc.	94.16	mg/m3	N	3.85	(C.H3)3.Si.C.H2.Li

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
3150	Trimethylgallium	1445-79-0	L	-15.9	55.7				3	
3151	Trimethylhexane, 2,2,5-	3522-94-9	L		124			0.7072	1	8000
3152	Trimethyloctane	98060-52-7	G		10.7	760	10.7	0.8711		6470
3153	Trimethyloctane, 2,2,6-	62016-28-8								6470
3154	Trimethyloctane, 2,3,7-	62016-34-6								6470
3155	Trimethyloctane, 2,4,6-	62016-37-9								6470
3156	Trimethyloctane, 2,6,6-	54166-32-4								6470
3157	Trimethylolpropane ethoxylate	50586-59-9	L					1.11		
3158	Trimethylolpropane phosphite	824-11-3	S	56	200	0.2	25		3	
3159	Trimethylopropane methylated copolymer	71342-93-3	S							
3160	Trimethylphosphine	594-09-2	L	-85	37.5			0.735	3	
3161	Trimethylpyridine, 2,4,6-	108-75-8							3	
3162	Trimethylsilanol	1066-40-6								
3163	Trimethylsilylmethyllithium	1822-00-0	L	13.9	35-36			0.65	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
3150	Trimethylgallium	1445-79-0					NA
3151	Trimethylhexane, 2,2,5-	3522-94-9					NA
3152	Trimethyloctane	98060-52-7					NA
3153	Trimethyloctane, 2,2,6-	62016-28-8					NA
3154	Trimethyloctane, 2,3,7-	62016-34-6					NA
3155	Trimethyloctane, 2,4,6-	62016-37-9					NA
3156	Trimethyloctane, 2,6,6-	54166-32-4					NA
3157	Trimethylolpropane ethoxylate	50586-59-9					NA
3158	Trimethylolpropane phosphite	824-11-3					NA
3159	Trimethylopropane methylated copolymer	71342-93-3	06/27/07	06/05/08	06/27/07	TSCA	NA
3160	Trimethylphosphine	594-09-2					NA
3161	Trimethylpyridine, 2,4,6-	108-75-8	01/04/99				NA
3162	Trimethylsilanol	1066-40-6					NA
3163	Trimethylsilylmethyllithium	1822-00-0					NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
3164	Trimethyltin chloride; (Chlorotrimethylstannane)	1066-45-1	CLT000	199.26	mg/m3	Y	8.14	Sn.C3H9Cl
3165	Trimethyltriheptylamine, 6,6',6"-; (Triisooctylamine)	2757-28-0	TKS500	353.76	mg/m3	Y	14.46	C24H51N
3166	Tri-n-butylamine	102-82-9	THX250	185.40	ppm	Y	7.58	C12.H27.N
3167	Trinitrobenzene, 1,3,5-	99-35-4	TMK500	213.12	mg/m3	N	8.71	C6H3N3O6
3168	Trinitrochlorobenzene; (Picryl chloride)	28260-61-9	TML325	247.56	mg/m3	N	10.12	C6H2ClN3O6
3169	Trinitrophenylmethylnitramine, 2,4,6-; (Tetryl)	479-45-8	TEG250	287.17	mg/m3	Y	11.74	C7H5N5O2
3170	Trinitrotoluene, 2,4,6-	118-96-7	TMN490	227.15	mg/m3	Y	9.28	C7H5N3O6
3171	Tri-n-octylphosphine oxide; (Trioctylphophine oxide)	78-50-2	N.I.S.	386.00	mg/m3	N	15.78	(C8H17)3PO
3172	Trioctylamine; (N,N-Dioctyl-1-octanamine)	1116-76-3	DVL000	353.76	mg/m3	N	14.46	C24H51N
3173	Trioctylphosphine; (Tri-n-octylphosphine)	4731-53-7	N.I.S.	370.72	mg/m3	N	15.15	C24.H51.P
3174	Tri-o-tolyl phosphate; (Triorthocresyl phosphate)	78-30-8	TMO600	368.39	ppm	N	15.06	C21H21O4P
3175	Tripentaerythritol	78-24-0	N.I.S.	372.41	mg/m3	N	15.22	C15.H32.O10
3176	Triphenyl phosphate	115-86-6	TMT750	326.30	mg/m3	N	13.34	C18H15O4P
3177	Triphenyl phosphite	101-02-0	TMU250	310.30	mg/m3	Y	12.68	C18.H15.O3.P

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
3164	Trimethyltin chloride; (Chlorotrimethylstannane)	1066-45-1	S	42	154-156	3	25		3	
3165	Trimethyltriheptylamine, 6,6',6''-; (Triisooctylamine)	2757-28-0							2	
3166	Tri-n-butylamine	102-82-9	L	-70	216.5	0.0934	25	0.78	3	14000
3167	Trinitrobenzene, 1,3,5-	99-35-4	S	122	expl			1.76	3	
3168	Trinitrochlorobenzene; (Picryl chloride)	28260-61-9	S						3	
3169	Trinitrophenylmethylnitramine, 2,4,6-; (Tetryl)	479-45-8	S	131-132	187 expl			1.57 @ 19C	3	
3170	Trinitrotoluene, 2,4,6-	118-96-7	S	82	240 expl			1.654	3	
3171	Tri-n-octylphosphine oxide; (Trioctylphophine oxide)	78-50-2	S	50-54						
3172	Trioctylamine; (N,N-Dioctyl-1-octanamine)	1116-76-3	L		365-367			0.809	3	
3173	Trioctylphosphine; (Tri-n-octylphosphine)	4731-53-7	S							
3174	Tri-o-tolyl phosphate; (Triorthocresyl phosphate)	78-30-8	L	-25 -30	410			1.17	3	
3175	Tripentaerythritol	78-24-0	S	225-240						
3176	Triphenyl phosphate	115-86-6	S	49-50	245 @ 11 mm	1	193.5	1.268 @ 60C	3	
3177	Triphenyl phosphite	101-02-0	S	21-23	183-184 @0.1mm			1.184	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
3164	Trimethyltin chloride; (Chlorotrimethylstannane)	1066-45-1					NA
3165	Trimethyltriheptylamine, 6,6',6''-; (Triisooctylamine)	2757-28-0	01/04/99				NA
3166	Tri-n-butylamine	102-82-9					3
3167	Trinitrobenzene, 1,3,5-	99-35-4	08/21/96				NA
3168	Trinitrochlorobenzene; (Picryl chloride)	28260-61-9	08/07/98				NA
3169	Trinitrophenylmethylnitramine, 2,4,6-; (Tetryl)	479-45-8	03/01/00				NA
3170	Trinitrotoluene, 2,4,6-	118-96-7	08/07/98				NA
3171	Tri-n-octylphosphine oxide; (Trioctylphophine oxide)	78-50-2	08/21/96				NA
3172	Trioctylamine; (N,N-Dioctyl-1-octanamine)	1116-76-3	01/04/99				NA
3173	Trioctylphosphine; (Tri-n-octylphosphine)	4731-53-7					NA
3174	Tri-o-tolyl phosphate; (Triorthocresyl phosphate)	78-30-8	08/07/98				1
3175	Tripentaerythritol	78-24-0					NA
3176	Triphenyl phosphate	115-86-6	01/04/99				1
3177	Triphenyl phosphite	101-02-0					2

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
3178	Triphenylborane	960-71-4	TMR300	242.14	mg/m3	Y	9.90	C18.H15.B
3179	Triphenylethoxysilane	1516-80-9	N.I.S.	304.46	mg/m3	N	12.44	C20.H20.O.Si
3180	Triphenylolmethane triglycidyl ether	66072-38-6	N.I.S.	460.53	mg/m3	N	18.82	C28.H28.O6
3181	Triphenylphosphine	603-35-0	TMU000	262.30	mg/m3	Y	10.72	C18.H15.P
3182	Triphenyltin chloride; (Chlorotriphenylstannane)	639-58-7	CLU000	385.47	mg/m3	Y	15.75	Sn.ClC18H15
3183	Tripotassium (2-hydroxyethyl)ethylenediaminetriacetate; (Tripotassium HEDTA)	62029-50-9	N.I.S.	395.55	ppm	N	16.17	K3-C10-H18-N2-O7
3184	Tripotassium arsenate	13464-36-3	N.I.S.	256.22	mg/m3	N	10.47	3K-As-O4
3185	Tripropylamine	102-69-2	TMY250	143.31	ppm	N	5.86	C9.H21.N
3186	Tripropylene glycol methyl ether	25498-49-1	MEV500	206.32	mg/m3	N	8.43	C10.H22.O4
3187	Tripropylene glycol monomethyl ether; (1-(2-(2-Methoxy-1-methylethoxy)-1-methylethoxy)-2-propanol)	20324-33-8	TNA000	206.32	ppm	Y	8.43	C10-H22-O4
3188	Tripropylene glycol; (((1-methyl-1,2-ethanediyl)bis(oxy))bispropanol)	24800-44-0	TMZ000	192.29	ppm	N	7.86	C9.H20.O4
3189	Tris hydrochloride; (Trizma hydrochloride; Tris(hydroxymethyl) aminomethane hydrochloride)	1185-53-1	N.I.S. etc.	157.60	mg/m3	Y	6.44	N.H2.C(C.H2.O.H)3..H.Cl
3190	Tris((hydroxymethyl)methylamino)propane-1-sulphonic acid, 3-	29915-38-6	N.I.S.	243.27	mg/m3	N	9.94	C7.H17.N.O6.S

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
3178	Triphenylborane	960-71-4	S	142					2	
3179	Triphenylethoxysilane	1516-80-9	S	65	344					
3180	Triphenylolmethane triglycidyl ether	66072-38-6	S							
3181	Triphenylphosphine	603-35-0	S	79	>360			1.194	2	
3182	Triphenyltin chloride; (Chlorotriphenylstannane)	639-58-7	S	106	240 @ 13.5 mm				3	
3183	Tripotassium (2-hydroxyethyl)ethylenediaminetriacetate; (Tripotassium HEDTA)	62029-50-9	S							
3184	Tripotassium arsenate	13464-36-3	S					2.8		
3185	Tripropylamine	102-69-2	L	-93.5	156	1.51	25	0.7558 @ 20C	3	7000
3186	Tripropylene glycol methyl ether	25498-49-1	L	-78.89	242.4			0.965	2	
3187	Tripropylene glycol monomethyl ether; (1-(2-(2-Methoxy-1-methylethoxy)-1-methylethoxy)-2-propanol)	20324-33-8	L		243			0.967	2	
3188	Tripropylene glycol; (((1-methyl-1,2-ethanediyl)bis(oxy))bispropanol)	24800-44-0	L	< -30	267	1	96	1.023	3	
3189	Tris hydrochloride; (Trizma hydrochloride; Tris(hydroxymethyl) aminomethane hydrochloride)	1185-53-1	S	150-152					2	
3190	Tris((hydroxymethyl)methylamino)propane-1-sulphonic acid, 3-	29915-38-6	S	240						

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
3178	Triphenylborane	960-71-4					NA
3179	Triphenylethoxysilane	1516-80-9					NA
3180	Triphenylolmethane triglycidyl ether	66072-38-6					NA
3181	Triphenylphosphine	603-35-0					2
3182	Triphenyltin chloride; (Chlorotriphenylstannane)	639-58-7					NA
3183	Tripotassium (2-hydroxyethyl)ethylenediaminetriacetate; (Tripotassium HEDTA)	62029-50-9					NA
3184	Tripotassium arsenate	13464-36-3					NA
3185	Tripropylamine	102-69-2			06/01/07	RTECS	3
3186	Tripropylene glycol methyl ether	25498-49-1					1
3187	Tripropylene glycol monomethyl ether; (1-(2-(2-Methoxy-1-methylethoxy)-1-methylethoxy)-2-propanol)	20324-33-8					1
3188	Tripropylene glycol; (((1-methyl-1,2-ethanediyl)bis(oxy))bispropanol)	24800-44-0					0
3189	Tris hydrochloride; (Trizma hydrochloride; Tris(hydroxymethyl) aminomethane hydrochloride)	1185-53-1			05/19/07	Toxicity based on HHR.	NA
3190	Tris((hydroxymethyl)methylamino)propane-1-sulphonic acid, 3-	29915-38-6					NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
3191	Tris(2-aminoethyl)amine	4097-89-6	NEI800	146.28	mg/m3	N	5.98	C6.H18.N4
3192	Tris(2-chloroethyl) phosphate; (2-Chloroethanol phosphate)	115-96-8	CGO500	285.50	mg/m3	Y	11.67	C6.H12.Cl3.O4.P
3193	**Tris(2-chloroethyl)amine; (Nitrogen mustard-3)**	**555-77-1**	TNF250	204.57	mg/m3	Y	8.36	C6H12Cl3N
3194	Tris(dimethylaminomethyl)phenol, 2,4,6-	90-72-2	TNH000	265.45	mg/m3	Y	10.85	C15H27N3O
3195	Tris-hydroxymethylaminomethane; (THAM)	77-86-1	TEM500	121.16	mg/m3	N	4.95	C4H11NO3
3196	Trisodium arsenate	13464-38-5	N.I.S.	207.89	mg/m3	N	8.50	3Na-As-O4 or 3Na-As-(OH)3
3197	Trisodium arsenate, heptahydrate; (Arsenic(V) acid, trisodium salt, heptahydrate	64070-83-3	ARE000	334.03	mg/m3	N	13.65	AsO4.3Na.7H2O
3198	Trisodium citrate	68-04-2	TNL000	258.08	ppm	Y	10.55	3Na-C6-H5-O7
3199	Trisodium N-hydroxyethylethylenediaminetriacetate; (Trisodium N-(2-hydroxyethyl)ethylenediaminetriacetate)	139-89-9	N.I.S.	344.22	mg/m3	N	14.07	C10-H18-N2-O7.3Na
3200	Triton X-100; (Poly(oxyethylene)-p-tert-octylphenyl ether)	9002-93-1	PKF500		mg/m3	Y		(C2H4O)n.C14H22O (n=5-15)
3201	Trypan blue	72-57-1	CMO250	964.88	mg/m3	N	39.44	C34H28N6 O14S4.4Na
3202	Trypsin; (Parenzyme; Chymotrypsin inhibitor)	9002-07-7	TNW000		mg/m3	N		
3203	Trypsinogen	9002-08-8	N.I.S. etc.		mg/m3	Y		

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
3191	Tris(2-aminoethyl)amine	4097-89-6							3	
3192	Tris(2-chloroethyl) phosphate; (2-Chloroethanol phosphate)	115-96-8	L	-55	330			1.39	3	
3193	**Tris(2-chloroethyl)amine; (Nitrogen mustard-3)**	**555-77-1**	L	-4	98 @ 2mm			1.2347	3	
3194	Tris(dimethylaminomethyl)phenol, 2,4,6-	90-72-2							2	
3195	Tris-hydroxymethylaminomethane; (THAM)	77-86-1	S	171-172	219-220 @10mm				2	
3196	Trisodium arsenate	13464-38-5	S							
3197	Trisodium arsenate, heptahydrate; (Arsenic(V) acid, trisodium salt, heptahydrate	64070-83-3								
3198	Trisodium citrate	68-04-2	S		dec				3	
3199	Trisodium N-hydroxyethylethylenediaminetriacetate; (Trisodium N-(2-hydroxyethyl)ethylenediaminetriacetate)	139-89-9	S	288				1.285		
3200	Triton X-100; (Poly(oxyethylene)-p-tert-octylphenyl ether)	9002-93-1	L					1.0595	2	
3201	Trypan blue	72-57-1	S						3	
3202	Trypsin; (Parenzyme; Chymotrypsin inhibitor)	9002-07-7	S						3	
3203	Trypsinogen	9002-08-8							2	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
3191	Tris(2-aminoethyl)amine	4097-89-6					NA
3192	Tris(2-chloroethyl) phosphate; (2-Chloroethanol phosphate)	115-96-8					NA
3193	**Tris(2-chloroethyl)amine; (Nitrogen mustard-3)**	**555-77-1**	03/01/00	07/18/08	12/28/07	EPA.	NA
3194	Tris(dimethylaminomethyl)phenol, 2,4,6-	90-72-2	09/30/97				NA
3195	Tris-hydroxymethylaminomethane; (THAM)	77-86-1					NA
3196	Trisodium arsenate	13464-38-5					NA
3197	Trisodium arsenate, heptahydrate; (Arsenic(V) acid, trisodium salt, heptahydrate	64070-83-3					NA
3198	Trisodium citrate	68-04-2					NA
3199	Trisodium N-hydroxyethylethylenediaminetriacetate; (Trisodium N-(2-hydroxyethyl)ethylenediaminetriacetate)	139-89-9					NA
3200	Triton X-100; (Poly(oxyethylene)-p-tert-octylphenyl ether)	9002-93-1	01/04/99				NA
3201	Trypan blue	72-57-1	08/21/96				NA
3202	Trypsin; (Parenzyme; Chymotrypsin inhibitor)	9002-07-7					NA
3203	Trypsinogen	9002-08-8					NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
3204	Tungsten	7440-33-7	TOA750	183.85	mg/m3	Y	7.51	W
3205	Tungsten boride	12007-09-9	N.I.S.	194.65	mg/m3	N	7.96	W.B
3206	Tungsten carbide	12070-12-1	TOB500	195.90	mg/m3	Y	8.01	W.C
3207	Tungsten hexafluoride	7783-82-6	TOC550	297.85	mg/m3	Y	12.17	WF6
3208	Tungsten trioxide; (Tungsten(VI) oxide)	1314-35-8	TOC750	231.85	mg/m3	Y	9.48	O3W
3209	Tungsten(IV) chloride; (Tungsten tetrachloride)	13470-13-8	N.I.S., etc.	325.66	mg/m3	N	13.31	W.Cl4
3210	Tungsten(IV) oxide	12036-22-5	N.I.S.	215.84	mg/m3	Y	8.82	WO2
3211	Tungstic acid	7783-03-1	N.I.S.	249.85	mg/m3	Y	10.21	W-H2-O4
3212	Tungstosilicic acid	11130-20-4	N.I.S.	2878.29	mg/m3	Y	117.64	4H..O40.Si.W12
3213	Turpentine	8006-64-2	TOD750	140.00	ppm	Y	5.72	C10.H16 approx
3214	Undecane	1120-21-4	UJS000	156.35	ppm	N	6.39	C11H24
3215	Undecanone, 2-; (Methyl nonyl ketone)	112-12-9	UKS000	170.33	ppm	N	6.96	C11-H22-O
3216	Uranine; (Fluorescein sodium)	518-47-8	FEW000	376.28	mg/m3	N	15.38	C20H10O5.Na
3217	Uranium	7440-61-1	UNS000	238.00	mg/m3	Y	9.73	U

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
3204	Tungsten	7440-33-7	S	3410	5900			19.3	3	
3205	Tungsten boride	12007-09-9	S	2665				15.2		
3206	Tungsten carbide	12070-12-1	S	2785				15.6	3	
3207	Tungsten hexafluoride	7783-82-6	G	2.3	17.5			13.069	3	
3208	Tungsten trioxide; (Tungsten(VI) oxide)	1314-35-8	S pwdr	1773				7.16	2	
3209	Tungsten(IV) chloride; (Tungsten tetrachloride)	13470-13-8	S							
3210	Tungsten(IV) oxide	12036-22-5	S	1500-1700				10.8	2	
3211	Tungstic acid	7783-03-1	S	100 dec				5.5		
3212	Tungstosilicic acid	11130-20-4	S							
3213	Turpentine	8006-64-2	L	-55	154-170			0.854-0.868	3	8000
3214	Undecane	1120-21-4	L	-25.75	195.6			0.7402	3	
3215	Undecanone, 2-; (Methyl nonyl ketone)	112-12-9	L	12	223			0.829 @ 30C	2	6880
3216	Uranine; (Fluorescein sodium)	518-47-8	S						2	
3217	Uranium	7440-61-1	S	1147.2	3812.2	~0	20	18.95	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
3204	Tungsten	7440-33-7	09/30/97				NA
3205	Tungsten boride	12007-09-9					NA
3206	Tungsten carbide	12070-12-1					NA
3207	Tungsten hexafluoride	7783-82-6	01/04/99				NA
3208	Tungsten trioxide; (Tungsten(VI) oxide)	1314-35-8	09/30/97				NA
3209	Tungsten(IV) chloride; (Tungsten tetrachloride)	13470-13-8					NA
3210	Tungsten(IV) oxide	12036-22-5	03/01/00				NA
3211	Tungstic acid	7783-03-1					NA
3212	Tungstosilicic acid	11130-20-4			08/26/07	GOEV.	NA
3213	Turpentine	8006-64-2		02/28/08	02/28/08	ACGIH, RTECS.	1
3214	Undecane	1120-21-4	08/07/98				1
3215	Undecanone, 2-; (Methyl nonyl ketone)	112-12-9					1
3216	Uranine; (Fluorescein sodium)	518-47-8	08/07/98				NA
3217	Uranium	7440-61-1	08/21/96				NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
3218	**Uranium hexafluoride; (Uranium fluoride)**	**7783-81-5**	UOJ000	352.00	mg/m3	Y	14.39	U.F6
3219	Uranium hydride; (Uranium(III) hydride)	13598-56-6	UPA000	241.06	mg/m3	Y	9.85	UH3
3220	**Uranium oxide; (Triuranium octaoxide)**	**1344-59-8**	N.I.S.	842.00	mg/m3	Y	34.41	U3O8
3221	Uranium telluride	12138-37-3	N.I.S.	493.23	mg/m3	Y	20.16	UTe2
3222	Uranium telluride A	12138-37-3a	N.I.S. etc.	1224.08	mg/m3	Y	50.03	U3Te4
3223	**Uranium trioxide**	**1344-58-7**	N.I.S.	286.03	mg/m3	Y	11.69	U.O3
3224	**Uranium(IV) oxide; (Uranium dioxide)**	**1344-57-6**	UPJ000	270.03	mg/m3	Y	11.04	UO2
3225	Uranium: insoluble compounds	z-0083	UNS000		mg/m3	Y		[Unspecified]
3226	Uranium: soluble compounds	z-0084	UNS000		mg/m3	Y		[Unspecified]
3227	Uranyl acetate; (Uranium oxyacetate)	541-09-3	UPS000	424.19	mg/m3	Y	17.34	C4H6O6U. 2H2O
3228	Uranyl fluoride; (Uranium oxyfluoride)	13536-84-0	UQA000	308.00	mg/m3	Y	12.59	U.O2.F2
3229	Uranyl hydroxide	13470-18-3a	N.I.S.	304.04	mg/m3	Y	12.43	U.O2.(OH)2
3230	Uranyl hydroxide (liquids)	13470-18-3b	N.I.S. etc.	304.04	mg/m3	Y	12.43	U.O2.(OH)2
3231	Uranyl nitrate (solid); (Bis(nitrato-O,O')dioxouranium)	10102-06-4	URA200	394.02	mg/m3	Y	16.10	N2.O8.U

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
3218	**Uranium hexafluoride; (Uranium fluoride)**	**7783-81-5**	S	64	56 subl			5.06	3	
3219	Uranium hydride; (Uranium(III) hydride)	13598-56-6	S						3	
3220	**Uranium oxide; (Triuranium octaoxide)**	**1344-59-8**	S						3	
3221	Uranium telluride	12138-37-3	S						3	
3222	Uranium telluride A	12138-37-3a	S						3	
3223	**Uranium trioxide**	**1344-58-7**	S					7.3	3	
3224	**Uranium(IV) oxide; (Uranium dioxide)**	**1344-57-6**	S	2875					3	
3225	Uranium: insoluble compounds	z-0083	S	varies	varies	varies			3	
3226	Uranium: soluble compounds	z-0084	S	varies	varies	varies			3	
3227	Uranyl acetate; (Uranium oxyacetate)	541-09-3	S	110 loss H2O	275 dec			2.893	3	
3228	Uranyl fluoride; (Uranium oxyfluoride)	13536-84-0	S	300 dec				6.37	3	
3229	Uranyl hydroxide	13470-18-3a	S						3	
3230	Uranyl hydroxide (liquids)	13470-18-3b	L							
3231	Uranyl nitrate (solid); (Bis(nitrato-O,O')dioxouranium)	10102-06-4	S	60.2	118			2.81	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
3218	**Uranium hexafluoride; (Uranium fluoride)**	**7783-81-5**	10/31/92	07/18/08	08/16/07	GOEV, EPA.	NA
3219	Uranium hydride; (Uranium(III) hydride)	13598-56-6	08/21/96				NA
3220	**Uranium oxide; (Triuranium octaoxide)**	**1344-59-8**			08/16/07	GOEV, AIHA.	NA
3221	Uranium telluride	12138-37-3	08/21/96				NA
3222	Uranium telluride A	12138-37-3a	07/09/97				
3223	**Uranium trioxide**	**1344-58-7**	04/03/08	04/03/08	04/03/08	AIHA, GOEV.	
3224	**Uranium(IV) oxide; (Uranium dioxide)**	**1344-57-6**			08/16/07	GOEV, AIHA.	NA
3225	Uranium: insoluble compounds	z-0083	08/21/96				
3226	Uranium: soluble compounds	z-0084	08/21/96				
3227	Uranyl acetate; (Uranium oxyacetate)	541-09-3	01/04/99				NA
3228	Uranyl fluoride; (Uranium oxyfluoride)	13536-84-0					NA
3229	Uranyl hydroxide	13470-18-3a					
3230	Uranyl hydroxide (liquids)	13470-18-3b					
3231	Uranyl nitrate (solid); (Bis(nitrato-O,O')dioxouranium)	10102-06-4					NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
3232	Uranyl nitrate (yellow salt)	36478-76-9	URA100	394.02	mg/m3	Y	16.10	U.O2.(N.O3)2
3233	Uranyl nitrate hexahydrate	13520-83-7	URS000	502.14	mg/m3	Y	20.52	N2.O8.U.6(H2.O)
3234	Uranyl nitrite (liquids)	z-0087	N.I.S. etc.	362.04	mg/m3	Y	14.80	U.O2.(N.O2)2
3235	Urea	57-13-6	USS000	60.07	mg/m3	Y	2.46	C.H4.N2.O
3236	Urea peroxide; (Urea hydrogen peroxide)	124-43-6	HIB500	94.09	mg/m3	Y	3.85	C.H4.N2.O..H2.O2
3237	Urea, substituted; (Urea, N,N''-(4-methyl-1,3-phenylene)bis[N',N'-dimethyl-)	17526-94-2	N.I.S.	264.33	mg/m3	N	10.80	C13.H20.N4.O2
3238	Urethane; (Carbamic acid, ethyl ester; Ethyl carbamate)	51-79-6	UVA000	89.11	mg/m3	N	3.64	C.H3.C.H2.O.C.O..N.H2
3239	Valeric acid	109-52-4	VAQ000	102.15	mg/m3	Y	4.18	C5.H10.O2
3240	Valinomycin	2001-95-8	VBZ000	1111.50	mg/m3	N	45.43	C54.H90.N6.O18
3241	Vanadium	7440-62-2	VCP000	50.94	mg/m3	N	2.08	V
3242	Vanadium pentoxide; (Vanadium(V) oxide)	1314-62-1	VDU000	181.88	mg/m3	Y	7.43	V2.O5
3243	Vanadium sulfate	16785-81-2	VEA100	454.66	mg/m3	Y	18.58	Vx..H2.S.O4
3244	Vanadium tetrachloride	7632-51-1	VEF000	192.74	mg/m3	Y	7.88	V.Cl4
3245	Vanadium trioxide	1314-34-7	VEA000	149.88	mg/m3	N	6.13	V2.O3

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
3232	Uranyl nitrate (yellow salt)	36478-76-9	S	60.2	118			2.807	3	
3233	Uranyl nitrate hexahydrate	13520-83-7	6	60.2	118			2.807 @ 13C	3	
3234	Uranyl nitrite (liquids)	z-0087	L							
3235	Urea	57-13-6	S	132.7	dec			1.335	2	73300
3236	Urea peroxide; (Urea hydrogen peroxide)	124-43-6	S	75-85	dec			0.8 @ 20C	1	
3237	Urea, substituted; (Urea, N,N''-(4-methyl-1,3-phenylene)bis[N',N'-dimethyl-)	17526-94-2	S							
3238	Urethane; (Carbamic acid, ethyl ester; Ethyl carbamate)	51-79-6	S	49	182-184	0.36	25	1.107	3	
3239	Valeric acid	109-52-4	L	-34.5	186.4	0.196	25	0.940 @ 20C	2	16000
3240	Valinomycin	2001-95-8	S	187		0.00001	25		3	
3241	Vanadium	7440-62-2	S	1917	3380			6.11	3	
3242	Vanadium pentoxide; (Vanadium(V) oxide)	1314-62-1	S	690	1750	1E-07	25	3.357 @ 18C	3	
3243	Vanadium sulfate	16785-81-2	S						2	
3244	Vanadium tetrachloride	7632-51-1	L	-25.7	148	7.63	25	1.816 @ 20C	3	
3245	Vanadium trioxide	1314-34-7	S	1970				4.87 @ 18C	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
3232	Uranyl nitrate (yellow salt)	36478-76-9	08/21/96				NA
3233	Uranyl nitrate hexahydrate	13520-83-7					NA
3234	Uranyl nitrite (liquids)	z-0087					
3235	Urea	57-13-6	08/07/98				NA
3236	Urea peroxide; (Urea hydrogen peroxide)	124-43-6	06/25/07		06/25/07	CHRIS, SAX, MSDS	NA
3237	Urea, substituted; (Urea, N,N''-(4-methyl-1,3-phenylene)bis[N',N'-dimethyl-)	17526-94-2	10/18/07		10/25/07	MSDS	2
3238	Urethane; (Carbamic acid, ethyl ester; Ethyl carbamate)	51-79-6					NA
3239	Valeric acid	109-52-4					3
3240	Valinomycin	2001-95-8					NA
3241	Vanadium	7440-62-2	09/30/97				NA
3242	Vanadium pentoxide; (Vanadium(V) oxide)	1314-62-1	08/21/96				NA
3243	Vanadium sulfate	16785-81-2					NA
3244	Vanadium tetrachloride	7632-51-1					3
3245	Vanadium trioxide	1314-34-7					NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
3246	Vanadium(II) sulfate heptahydrate	36907-42-3	N.I.S.	273.11	mg/m3	Y	11.16	V.S.O4..7(H2.O)
3247	Vanadium(III) sulfate	13701-70-7	N.I.S.	390.07	mg/m3	Y	15.94	V2.(S.O4)3
3248	Vanadium, trichlorooxo	7727-18-6	VDP000	173.29	ppm	N	7.08	V.Cl.O3
3249	Vanadyl sulfate pentahydrate; (Vanadium(IV) sulfate oxide hydrate)	12439-96-2	VEZ100	253.07	mg/m3	Y	10.34	V.S.O5.5(H2.O)
3250	Vanadyl sulfate; (Oxysulfatovanadium)	27774-13-6	VEZ000	163.00	mg/m3	Y	6.66	O5.S.V
3251	Vanilin	121-33-5	VKF000	152.16	mg/m3	N	6.22	C8.H8.O3
3252	Vegetable oil	68956-68-3	VGU200		mg/m3	N		[Unspecified]
3253	Veratraldehyde	120-14-9	VHK000	166.19	mg/m3	Y	6.79	C9.H10.O3
3254	Vermiculite, exfoliated	1318-00-9	N.I.S. etc.		mg/m3	N		Mg.Fe.Al.silicate
3255	Vinyl 2-chloroethylsulfide; (2-Chloroethylthio ethene)	81142-02-1		109.55	mg/m3	N	4.48	C4.H7.Cl.S
3256	**Vinyl acetate**	**108-05-4**	VLU250	86.10	ppm	Y	3.52	C.H2=C.H.O.C.(O).C.H3
3257	Vinyl acetate-vinyl chloride copolymer; (Acetic acid, vinyl ester, polymer with	9003-22-9	AAX175		mg/m3	N		(C4.H6.O2. C2.H3.Cl)n
3258	Vinyl acrylic resin; (Vinyl acetate, polymer with n-butyl acrylate)	25067-01-0	N.I.S.		mg/m3	N		(C7.H12.O2 .C4.H6.O2)x
3259	Vinyl bromide	593-60-2	VMP000	106.96	ppm	N	4.37	C2.H3.Br

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
3246	Vanadium(II) sulfate heptahydrate	36907-42-3	S							
3247	Vanadium(III) sulfate	13701-70-7	S							
3248	Vanadium, trichlorooxo	7727-18-6	L	-77	126.7	19.3	25	1.829	3	
3249	Vanadyl sulfate pentahydrate; (Vanadium(IV) sulfate oxide hydrate)	12439-96-2	S						3	
3250	Vanadyl sulfate; (Oxysulfatovanadium)	27774-13-6	S						3	
3251	Vanilin	121-33-5	S	80-81	285			1.056	2	
3252	Vegetable oil	68956-68-3	L						1	
3253	Veratraldehyde	120-14-9	S	42-43	281				2	
3254	Vermiculite, exfoliated	1318-00-9	S	1316-1370				2.6		
3255	Vinyl 2-chloroethylsulfide; (2-Chloroethylthio ethene)	81142-02-1				5.8	25			
3256	**Vinyl acetate**	**108-05-4**	L	-92.8	73	100	22	0.9335	3	26000
3257	Vinyl acetate-vinyl chloride copolymer; (Acetic acid, vinyl ester, polymer with	9003-22-9	S						1	
3258	Vinyl acrylic resin; (Vinyl acetate, polymer with n-butyl acrylate)	25067-01-0	S							
3259	Vinyl bromide	593-60-2	G	-138	15.6	>760		1.51	3	90000

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
3246	Vanadium(II) sulfate heptahydrate	36907-42-3					NA
3247	Vanadium(III) sulfate	13701-70-7					NA
3248	Vanadium, trichlorooxo	7727-18-6					NA
3249	Vanadyl sulfate pentahydrate; (Vanadium(IV) sulfate oxide hydrate)	12439-96-2					NA
3250	Vanadyl sulfate; (Oxysulfatovanadium)	27774-13-6	08/07/98				NA
3251	Vanilin	121-33-5					NA
3252	Vegetable oil	68956-68-3	09/30/97				NA
3253	Veratraldehyde	120-14-9					NA
3254	Vermiculite, exfoliated	1318-00-9					NA
3255	Vinyl 2-chloroethylsulfide; (2-Chloroethylthio ethene)	81142-02-1	04/15/07				NA
3256	**Vinyl acetate**	**108-05-4**	10/31/92	02/05/08	12/28/07	EPA	2
3257	Vinyl acetate-vinyl chloride copolymer; (Acetic acid, vinyl ester, polymer with	9003-22-9	01/04/99				NA
3258	Vinyl acrylic resin; (Vinyl acetate, polymer with n-butyl acrylate)	25067-01-0	09/30/97				NA
3259	Vinyl bromide	593-60-2	09/30/97				2

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
3260	**Vinyl chloride**	**75-01-4**	VNP000	62.50	ppm	Y	2.55	C.H2:C.H.Cl
3261	Vinyl ethyl ether; (Ethoxy ethene)	109-92-2	EQF500	72.12	ppm	Y	2.95	C4.H8.O
3262	Vinyl fluoride	75-02-5	VPA000	46.00	ppm	Y	1.88	C.H2.C.H.F
3263	Vinyl terminated dimethylsiloxane-diphenylsiloxane copolymer	68951-96-2	N.I.S.	9300.00	mg/m3	N	380.10	
3264	**Vinyl trichlorosilane**	**75-94-5**	TIN750	161.49	ppm	Y	6.60	C2.H3.Cl3.Si
3265	Vinyl-2-pyrrolidinone, 1-	88-12-0	EEG000	111.16	ppm	Y	4.54	C6.H9.N.O
3266	Vinylbenzylchloride; (4-Vinylbenzyl chloride)	1592-20-7	N.I.S.	152.62	mg/m3	Y	6.24	C9.H9.Cl
3267	Vinylcyclohexene, 4-; (Cyclohexenylethylene)	100-40-3	CPD750	108.18	ppm	N	4.42	C8.H12
3268	Vinylformamide, N-	13162-05-5	N.I.S.	71.08	mg/m3	Y	2.91	C3.H5.N.O
3269	**Vinylidene chloride; (1,1-dichloroethylene)**	**75-35-4**	VPK000	96.94	ppm	Y	3.96	C.H2=C.Cl2
3270	Vinylidene fluoride; (1,1-Difluoroethene)	75-38-7	VPP000	64.04	ppm	Y	2.62	C2.H2.F2
3271	Vinylmagnesium bromide	1826-67-1	N.I.S.	131.25	mg/m3	N	5.36	C2.H3.Br.Mg
3272	Vinylpyrrolidone/vinyl acetate copolymer	25086-89-9	AAU300	50000	mg/m3	N	2043.57	(C9.H9.N.O..C4.H6.O2)x
3273	Virginia refrigeration oil 150 and 300; (Mineral oil, petroleum distillates, hydrotreated (mild) heavy naphthenic)	64742-52-5	MQV790		mg/m3	Y		

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
3260	**Vinyl chloride**	**75-01-4**	G	-160	-13.9	>760		0.9121	3	36000
3261	Vinyl ethyl ether; (Ethoxy ethene)	109-92-2	L	-115	35.6	428	20	0.754	3	13000
3262	Vinyl fluoride	75-02-5	G	-160.5	-51	>760			3	26000
3263	Vinyl terminated dimethylsiloxane-diphenylsiloxane copolymer	68951-96-2	S		>400			1.036	0	
3264	**Vinyl trichlorosilane**	**75-94-5**	L fum	-95	91.5	65.9	25	1.2426 @ 20C	3	30000
3265	Vinyl-2-pyrrolidinone, 1-	88-12-0	L	13.5	193 @ 400 mm	1.04E-11	25	1.04	3	14000
3266	Vinylbenzylchloride; (4-Vinylbenzyl chloride)	1592-20-7	L		229	1	56.1	1.083	3	
3267	Vinylcyclohexene, 4-; (Cyclohexenylethylene)	100-40-3	L	-101	126-127	3E+01	38	0.8229	3	10000
3268	Vinylformamide, N-	13162-05-5	L	-16	210	0.1	25	1.014	2	
3269	**Vinylidene chloride; (1,1-dichloroethylene)**	**75-35-4**	L	-122.5	31.7	600	25	1.213	3	65000
3270	Vinylidene fluoride; (1,1-Difluoroethene)	75-38-7	G	-144	<-70				3	55000
3271	Vinylmagnesium bromide	1826-67-1	L					0.98	3	
3272	Vinylpyrrolidone/vinyl acetate copolymer	25086-89-9	S					1.27	2	
3273	Virginia refrigeration oil 150 and 300; (Mineral oil, petroleum distillates, hydrotreated (mild) heavy naphthenic)	64742-52-5	L		350				3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
3260	**Vinyl chloride**	**75-01-4**	08/21/96	02/28/08	08/16/07	GOEV, EPA.	2
3261	Vinyl ethyl ether; (Ethoxy ethene)	109-92-2					2
3262	Vinyl fluoride	75-02-5	09/30/97				2
3263	Vinyl terminated dimethylsiloxane-diphenylsiloxane copolymer	68951-96-2					NA
3264	**Vinyl trichlorosilane**	**75-94-5**			06/27/08	EPA.	3
3265	Vinyl-2-pyrrolidinone, 1-	88-12-0			05/18/07	GOEV 2007, RTECS	2
3266	Vinylbenzylchloride; (4-Vinylbenzyl chloride)	1592-20-7	04/15/07				NA
3267	Vinylcyclohexene, 4-; (Cyclohexenylethylene)	100-40-3	07/16/07	02/28/08	02/28/08	GOEV, RTECS	2
3268	Vinylformamide, N-	13162-05-5	04/15/07				NA
3269	**Vinylidene chloride; (1,1-dichloroethylene)**	**75-35-4**	10/31/92		08/16/07	GOEV, AIHA.	2
3270	Vinylidene fluoride; (1,1-Difluoroethene)	75-38-7					1
3271	Vinylmagnesium bromide	1826-67-1	04/15/07				NA
3272	Vinylpyrrolidone/vinyl acetate copolymer	25086-89-9	04/15/07	06/05/08	04/15/07	RTECS	NA
3273	Virginia refrigeration oil 150 and 300; (Mineral oil, petroleum distillates, hydrotreated (mild) heavy naphthenic)	64742-52-5	04/15/07				NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
3274	Warfarin	81-81-2	WAT200	308.35	mg/m3	N	12.60	C19H16O4
3275	Warfarin sodium	129-06-6	WAT220	330.33	mg/m3	N	13.50	C19H15O4.Na
3276	Xenon	7440-63-3	XDS000	131.29	ppm	N	5.37	Xe
3277	Xylene, m-	108-38-3	XHA000	106.18	ppm	Y	4.34	C6.H4.(CH3)2
3278	Xylene, o-	95-47-6	XHJ000	106.18	ppm	Y	4.34	C6.H4.(CH3)2
3279	Xylene, p-	106-42-3	XHS000	106.18	ppm	Y	4.34	C6.H4.(CH3)2
3280	**Xylenes**	**1330-20-7**	XGS000	106.18	ppm	Y	4.34	C6.H4.(CH3)2
3281	Xylenol orange tetrasodium salt	3618-43-7	N.I.S.	760.60	mg/m3	N	31.09	C31-H28-N2-Na4-O13-S
3282	Xylidine	1300-73-8	XMA000	121.20	ppm	N	4.95	C8H11N
3283	Xylidine, 2,6-	87-62-7	XNJ000	121.20	mg/m3	N	4.95	C8H11N
3284	Xylidine, o-; (2,3-Xylidine)	87-59-2	XMJ000	121.20	ppm	Y	4.95	C8H11N
3285	Xylylene dichloride	28347-13-9	XSS250	175.06	mg/m3	N	7.15	C8H8Cl2
3286	Yeast extract	8013-01-2	YAK050		mg/m3	N		
3287	Ytterbium fluoride	13760-80-0	N.I.S.	230.04	mg/m3	Y	9.40	YbF3

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
3274	Warfarin	81-81-2	S	161	356	0.00001	25		3	
3275	Warfarin sodium	129-06-6	S	159-165	dec	0.00001	25		3	
3276	Xenon	7440-63-3	G	-112	-107			3.52 @ -109C	1	
3277	Xylene, m-	108-38-3	L	-47.4	138.8			0.864	3	11000
3278	Xylene, o-	95-47-6	L	-25	144			0.88	3	9000
3279	Xylene, p-	106-42-3	L	13.2	138.5	10	27.3	0.8611	3	10000
3280	**Xylenes**	**1330-20-7**	L	-50-->	131-->	7.9	20	0.864	3	9000
3281	Xylenol orange tetrasodium salt	3618-43-7	S powd						2	
3282	Xylidine	1300-73-8	L		213-226			.97-.99	3	10000
3283	Xylidine, 2,6-	87-62-7	L	11.2	216	0.125	25	0.98	3	15000
3284	Xylidine, o-; (2,3-Xylidine)	87-59-2	L	<-15	221.5	0.075	25	0.9931 @ 20C	3	15000
3285	Xylylene dichloride	28347-13-9	S	34-37	239	0.02	25	1.202	3	
3286	Yeast extract	8013-01-2	S						1	
3287	Ytterbium fluoride	13760-80-0	S	1157	2200				3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
3274	Warfarin	81-81-2		02/28/08	02/28/08	GOEV, RTECS, NIOSH.	NA
3275	Warfarin sodium	129-06-6					NA
3276	Xenon	7440-63-3					NA
3277	Xylene, m-	108-38-3	10/31/92				2
3278	Xylene, o-	95-47-6	10/31/92				2
3279	Xylene, p-	106-42-3	10/31/92				2
3280	**Xylenes**	**1330-20-7**	10/31/92	02/05/08	08/16/07	GOEV, EPA.	2
3281	Xylenol orange tetrasodium salt	3618-43-7					NA
3282	Xylidine	1300-73-8	09/30/97				NA
3283	Xylidine, 2,6-	87-62-7					NA
3284	Xylidine, o-; (2,3-Xylidine)	87-59-2					3
3285	Xylylene dichloride	28347-13-9					NA
3286	Yeast extract	8013-01-2					NA
3287	Ytterbium fluoride	13760-80-0	08/07/98				NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
3288	Ytterbium oxide	1314-37-0	N.I.S.	394.08	mg/m3	N	16.11	Yb2-O3
3289	Yttrium	7440-65-5	YEJ000	88.91	mg/m3	N	3.63	Y
3290	Yttrium chloride, hexahydrate	10025-94-2	N.I.S.	303.38	mg/m3	N	12.40	Y.Cl3-6(H2.O)
3291	Yttrium oxide	11130-29-3	N.I.S.	104.91	mg/m3	N	4.29	YO
3292	Yttrium trioxide	1314-36-9	YGA000	225.82	mg/m3	N	9.23	Y2-O3
3293	Zeolites, CaA	68989-20-8	N.I.S. etc		mg/m3	Y		
3294	Zeolites, KA	68989-21-9	N.I.S. etc.		mg/m3	N		KnNa12-n[(AlO2)12(SiO2)12] · xH2O
3295	Zeolites, NaA	68989-22-0	N.I.S.		mg/m3	N		
3296	Zeolites, NaX	68989-23-1	N.I.S.		mg/m3	N		
3297	Zinc	7440-66-6	ZBJ000	65.37	mg/m3	N	2.67	Zn
3298	Zinc acetate	557-34-6	ZBS000	183.47	mg/m3	N	7.50	C4H6O4.Zn
3299	Zinc acetate dihydrate	5970-45-6	ZCA000	219.51	mg/m3	Y	8.97	Zn..C4.H6.O4..2 H2O
3300	Zinc bromide	7699-45-8	N.I.S.	225.19	mg/m3	N	9.20	ZnBr2
3301	Zinc carbonate	3486-35-9	ZEJ050	125.38	mg/m3	N	5.12	Zn.CO3

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
3288	Ytterbium oxide	1314-37-0	S	2435				9.2		
3289	Yttrium	7440-65-5	S	1522	3338			4.469	3	
3290	Yttrium chloride, hexahydrate	10025-94-2	S							
3291	Yttrium oxide	11130-29-3	S							
3292	Yttrium trioxide	1314-36-9	S	2410				4.84	3	
3293	Zeolites, CaA	68989-20-8	S						2	
3294	Zeolites, KA	68989-21-9	S							
3295	Zeolites, NaA	68989-22-0	S							
3296	Zeolites, NaX	68989-23-1	S							
3297	Zinc	7440-66-6	S	419	907	1	487	77.14	3	
3298	Zinc acetate	557-34-6	S	237				1.735	3	
3299	Zinc acetate dihydrate	5970-45-6	S	237				1.735	2	
3300	Zinc bromide	7699-45-8	S	394	697			4.3		
3301	Zinc carbonate	3486-35-9	S					4.4	D	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
3288	Ytterbium oxide	1314-37-0					NA
3289	Yttrium	7440-65-5	09/30/97	06/03/08	02/28/08	GOEV, NIOSH.	NA
3290	Yttrium chloride, hexahydrate	10025-94-2		06/03/08	06/03/08	GOEV, RTECS, NIOSH.	NA
3291	Yttrium oxide	11130-29-3	01/04/99	06/03/08	06/03/08	GOEV, RTECS, NIOSH.	NA
3292	Yttrium trioxide	1314-36-9		06/03/08		GOEV, RTECS, NIOSH.	NA
3293	Zeolites, CaA	68989-20-8					NA
3294	Zeolites, KA	68989-21-9					NA
3295	Zeolites, NaA	68989-22-0			05/19/07	RTECS.	NA
3296	Zeolites, NaX	68989-23-1					NA
3297	Zinc	7440-66-6	08/21/96				NA
3298	Zinc acetate	557-34-6	08/07/98				NA
3299	Zinc acetate dihydrate	5970-45-6					NA
3300	Zinc bromide	7699-45-8					NA
3301	Zinc carbonate	3486-35-9					NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
3302	Zinc carbonate hydroxide	5263-02-5	N.I.S. etc.	142.40	mg/m3	N	5.82	Zn.C.O3..OH
3303	Zinc chloride	7646-85-7	ZFA000	136.27	mg/m3	Y	5.57	Cl2Zn
3304	Zinc cyanide	557-21-1	ZGA000	117.41	mg/m3	Y	4.80	(CN)2.Zn
3305	Zinc fluoride	7783-49-5	ZHS000	103.37	mg/m3	Y	4.22	ZnF2
3306	Zinc hydroxide	20427-58-1	N.I.S.	99.40	mg/m3	N	4.06	Zn-(OH)2
3307	Zinc nitrate	7779-88-6	ZJJ000	189.39	mg/m3	Y	7.74	N2O6.Zn
3308	Zinc nitrate hexahydrate	10196-18-6	NEF500	297.51	mg/m3	Y	12.16	Zn..N2.O6..6 H2O
3309	Zinc nitrite	10102-02-0	N.I.S. etc.	157.39	mg/m3	N	6.43	Zn-(N-O2)2
3310	Zinc oxide	1314-13-2	ZKA000	81.37	mg/m3	Y	3.33	ZnO
3311	Zinc perchlorate	13637-61-1	N.I.S.	266.29	mg/m3	N	10.88	Zn.2(Cl.H.O4)
3312	Zinc phenolsulfonate; (Zinc p-hydroxybenzenesulfonate)	127-82-2	ZIJ300	413.73	mg/m3	Y	16.91	Zn.C12H12O8S2
3313	Zinc phosphate (3:2)	7779-90-0	ZJS400	386.05	mg/m3	N	15.78	Zn3-(P-O4)2
3314	**Zinc phosphide**	**1314-84-7**	ZLS000	258.05	ppm	Y	10.55	P2Zn3
3315	Zinc stearate	557-05-1	ZMS000	632.30	mg/m3	N	25.84	Zn(C18H35 O2)2

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
3302	Zinc carbonate hydroxide	5263-02-5								
3303	Zinc chloride	7646-85-7	S	290	732	1	428	2.91	3	
3304	Zinc cyanide	557-21-1	S	800 decom				1.852	3	
3305	Zinc fluoride	7783-49-5	S	872	1500	1	970	5.0025	3	
3306	Zinc hydroxide	20427-58-1	S							
3307	Zinc nitrate	7779-88-6	S	42.5					3	
3308	Zinc nitrate hexahydrate	10196-18-6	S	36.4				2.065 @ 14C	2	
3309	Zinc nitrite	10102-02-0	S							
3310	Zinc oxide	1314-13-2	S	1975				5.47	3	
3311	Zinc perchlorate	13637-61-1	S							
3312	Zinc phenolsulfonate; (Zinc p-hydroxybenzenesulfonate)	127-82-2	S						3	
3313	Zinc phosphate (3:2)	7779-90-0	S	900				4	2	
3314	**Zinc phosphide**	**1314-84-7**	S	420	1100	1E-07	25	4.55 @ 13C	3	
3315	Zinc stearate	557-05-1	S	130				1.095	3	

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
3302	Zinc carbonate hydroxide	5263-02-5		06/05/08			NA
3303	Zinc chloride	7646-85-7	08/07/98	02/28/08	02/28/08	GOEV, RTECS, NIOSH.	NA
3304	Zinc cyanide	557-21-1					NA
3305	Zinc fluoride	7783-49-5	08/07/98				NA
3306	Zinc hydroxide	20427-58-1					NA
3307	Zinc nitrate	7779-88-6	08/21/96				NA
3308	Zinc nitrate hexahydrate	10196-18-6					NA
3309	Zinc nitrite	10102-02-0					NA
3310	Zinc oxide	1314-13-2	08/21/96	02/28/08	02/28/08	GOEV, NIOSH.	NA
3311	Zinc perchlorate	13637-61-1					NA
3312	Zinc phenolsulfonate; (Zinc p-hydroxybenzenesulfonate)	127-82-2					NA
3313	Zinc phosphate (3:2)	7779-90-0					NA
3314	**Zinc phosphide**	**1314-84-7**		07/18/08	02/07/08	RTECS, EPA.	3
3315	Zinc stearate	557-05-1	08/07/98				1

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
3316	Zinc sulfate	7733-02-0	ZNA000	161.43	mg/m3	Y	6.60	ZnSO4
3317	Zinc sulfate heptahydrate (1:1:7)	7446-20-0	ZNJ000	287.57	mg/m3	N	11.75	Zn.S.O4:7H2.O
3318	Zirconium boride	12045-64-6	N.I.S.	112.84	mg/m3	Y	4.61	Zr-B2
3319	Zirconium carbide	12070-14-3	ZQC200	115.25	mg/m3	Y	4.71	Zr.C2
3320	Zirconium chloride	10026-11-6	ZPA000	233.02	mg/m3	Y	9.52	Cl4Zr
3321	Zirconium chloride oxide octahydrate	13520-92-8	ZPS000	322.28	mg/m3	Y	13.17	Cl2OZr·8H2O
3322	Zirconium compounds (as Zr)	7440-67-7	ZOA000	91.22	mg/m3	Y	3.73	Zr
3323	Zirconium fluoride	7783-64-4	ZQS000	167.22	mg/m3	Y	6.83	Zr-F4
3324	Zirconium hydride	7704-99-6	ZRA000	93.24	mg/m3	Y	3.81	Zr.H2
3325	Zirconium hydroxide	14475-63-9	N.I.S.	159.25	mg/m3	Y	6.51	Zr.(OH)4
3326	Zirconium nitrate	13746-89-9	ZSA000	339.26	mg/m3	Y	13.87	Zr.4NO3
3327	Zirconium nitride	25658-42-8	N.I.S.	105.23	mg/m3	Y	4.30	Zr-N
3328	Zirconium nitrite	z-0088	ZQA000	137.23	mg/m3	Y	5.61	Zr-O-N2
3329	Zirconium oxide	1314-23-4	ZQA000	123.22	mg/m3	Y	5.04	ZrO2

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
3316	Zinc sulfate	7733-02-0	S	740 dec				3.74 @ 15C	3	
3317	Zinc sulfate heptahydrate (1:1:7)	7446-20-0	S	100	>500 dec			1.97	3	
3318	Zirconium boride	12045-64-6	S	3000						
3319	Zirconium carbide	12070-14-3	S	3400-3540	5100			6.73	2	
3320	Zirconium chloride	10026-11-6	S	437 subl.	331	1	190	2.8	3	
3321	Zirconium chloride oxide octahydrate	13520-92-8	S						2	
3322	Zirconium compounds (as Zr)	7440-67-7	S	1852	3577			6.506	3	
3323	Zirconium fluoride	7783-64-4	V							
3324	Zirconium hydride	7704-99-6	S		> 300 dec			5.6	3	
3325	Zirconium hydroxide	14475-63-9	S	dec				3.24		
3326	Zirconium nitrate	13746-89-9	S						2	
3327	Zirconium nitride	25658-42-8	S	2960				7.09		
3328	Zirconium nitrite	z-0088	S							
3329	Zirconium oxide	1314-23-4	S							

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
3316	Zinc sulfate	7733-02-0					NA
3317	Zinc sulfate heptahydrate (1:1:7)	7446-20-0			08/24/07	GOEV, NIOSH.	NA
3318	Zirconium boride	12045-64-6			08/24/07	GOEV, NIOSH.	
3319	Zirconium carbide	12070-14-3			08/24/07	GOEV, NIOSH.	NA
3320	Zirconium chloride	10026-11-6	01/04/99		08/24/07	GOEV, NIOSH.	3
3321	Zirconium chloride oxide octahydrate	13520-92-8	01/04/99		08/24/07	GOEV, NIOSH.	NA
3322	Zirconium compounds (as Zr)	7440-67-7	08/21/96		08/24/07	GOEV, NIOSH.	NA
3323	Zirconium fluoride	7783-64-4			08/24/07	GOEV, NIOSH.	NA
3324	Zirconium hydride	7704-99-6			08/24/07	GOEV, NIOSH.	NA
3325	Zirconium hydroxide	14475-63-9			08/24/07	GOEV, NIOSH.	NA
3326	Zirconium nitrate	13746-89-9	01/04/99		08/24/07	GOEV, NIOSH.	NA
3327	Zirconium nitride	25658-42-8			08/24/07	GOEV, NIOSH.	
3328	Zirconium nitrite	z-0088			08/24/07	GOEV, NIOSH.	
3329	Zirconium oxide	1314-23-4			08/24/07	GOEV, NIOSH.	NA

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
3330	Zirconium oxynitrate hydrate	14985-18-3	ZQA000	250.00	mg/m3	Y	10.22	ZrO(NO3)x H2O
3331	Zirconium phosphide	12037-80-8	ZQA000	153.17	mg/m3	Y	6.26	Zr-P2
3332	Zirconium potassium fluoride; (Potassium fluorozirconate)	16923-95-8	PLG500	283.40	mg/m3	Y	11.58	Zr.K2F6
3333	Zirconium silane	z-0089	ZQA000	147.39	mg/m3	Y	6.02	Zr-Si2
3334	Zirconium silicate; (Zirconium silicon oxide; Zircon))	10101-52-7	N.I.S.	187.33	mg/m3	N	7.66	Zr..H4.O4.Si
3335	Zirconium sulfate tetrahydrate	7446-31-3	ZTJ000	355.40	mg/m3	Y	14.53	Zr.(SO4)2.4H2O
3336	Zirconyl chloride; (Zirconium oxychloride)	7699-43-6	ZSJ000	178.12	mg/m3	Y	7.28	Zr..Cl2.O
3337	Zirconyl nitrate; (Bis(nitrato-O)oxozirconium)	13826-66-9	BLA000	231.24	mg/m3	Y	9.45	N2O7Zr
3338	Zonyl fsn fluorosurfactant	65545-80-4	N.I.S.		mg/m3	Y		(C2.H4O)x(C.F2)y. .C2.H5.F.O
3339	zzAcrylic latex	z-0090	N.I.S. etc.		mg/m3	N		[Unknown]
3340	zzAlumination 301	z-0091	N.I.S. etc.		mg/m3	N		[Unknown]
3341	zzHydranal coulomat / AG	z-0092	N.I.S. etc.		mg/m3	N		[Unknown]
3342	zzHydrocarbon polymer	z-0093	N.I.S. etc.		mg/m3	N		[Unknown]
3343	zzHydrocount(R), LSC cocktail	z-0094	N.I.S. etc.		mg/m3	N		[Unknown]

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
3330	Zirconium oxynitrate hydrate	14985-18-3								
3331	Zirconium phosphide	12037-80-8	S					5.1		
3332	Zirconium potassium fluoride; (Potassium fluorozirconate)	16923-95-8	S					3.48	3	
3333	Zirconium silane	z-0089	S							
3334	Zirconium silicate; (Zirconium silicon oxide; Zircon))	10101-52-7	S							
3335	Zirconium sulfate tetrahydrate	7446-31-3	S	410 decom				3.22 @ 16C	3	
3336	Zirconyl chloride; (Zirconium oxychloride)	7699-43-6	S	150	210			1.91	3	
3337	Zirconyl nitrate; (Bis(nitrato-O)oxozirconium)	13826-66-9	S						2	
3338	Zonyl fsn fluorosurfactant	65545-80-4	L		80			1.06	1	
3339	zzAcrylic latex	z-0090	L							
3340	zzAlumination 301	z-0091								
3341	zzHydranal coulomat / AG	z-0092								
3342	zzHydrocarbon polymer	z-0093	S						3	
3343	zzHydrocount(R), LSC cocktail	z-0094								

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
3330	Zirconium oxynitrate hydrate	14985-18-3			08/24/07	GOEV, NIOSH.	NA
3331	Zirconium phosphide	12037-80-8			08/24/07	GOEV, NIOSH.	NA
3332	Zirconium potassium fluoride; (Potassium fluorozirconate)	16923-95-8			08/24/07	GOEV, NIOSH.	NA
3333	Zirconium silane	z-0089			08/24/07	GOEV, NIOSH.	
3334	Zirconium silicate; (Zirconium silicon oxide; Zircon))	10101-52-7			08/24/07	GOEV, NIOSH.	NA
3335	Zirconium sulfate tetrahydrate	7446-31-3			08/24/07	GOEV, NIOSH.	
3336	Zirconyl chloride; (Zirconium oxychloride)	7699-43-6			08/24/07	GOEV, NIOSH.	NA
3337	Zirconyl nitrate; (Bis(nitrato-O)oxozirconium)	13826-66-9	01/04/99		08/24/07	GOEV, NIOSH.	NA
3338	Zonyl fsn fluorosurfactant	65545-80-4					NA
3339	zzAcrylic latex	z-0090	09/30/97				
3340	zzAlumination 301	z-0091	08/07/98				
3341	zzHydranal coulomat / AG	z-0092	08/07/98				
3342	zzHydrocarbon polymer	z-0093	09/30/97				
3343	zzHydrocount(R), LSC cocktail	z-0094	07/09/97				

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity conc depen-dent	ppm to mg/m^3	Molecular formula (MF)
3344	zzIconol(R)	z-0095	N.I.S. etc.		mg/m3	N		[Unknown]
3345	zzMachine coolant 1	z-0096	N.I.S. etc.		mg/m3	N		[Unknown]
3346	zzMonophase- S	z-0097	N.I.S. etc.		mg/m3	N		[Unknown]
3347	zzMornar	z-0098	N.I.S. etc.		mg/m3	N		[Unknown]
3348	zzOpti-Fluor; (Alkyl benzene blend, 3% tributylphophate)	z-0099	N.I.S. etc.		mg/m3	N		Mixture
3349	zzPaint solvent	z-0100	N.I.S. etc.		mg/m3	Y		[Unknown]
3350	zzPropanol (-2) aluminum derivative	z-0101	N.I.S. etc.		mg/m3	N		[Unknown]
3351	zzScintillation cocktail, Ultima Gold XR	z-0102	N.I.S. etc.	212.36	mg/m3	Y	8.68	C16H20 (mixture)
3352	zzSicapent	z-0103	N.I.S. etc.		mg/m3	N		[Unknown]
3353	zzSynthetic resins	z-0104	N.I.S. etc.		mg/m3	N		[Unknown]
3354	zzTotal sequestrant reagent #5	z-0105	N.I.S. etc.		mg/m3	Y		Mixture
3355	zzTrifluoroacetyl)-N,0,0,0-tetrakis((TMS)norepinephrine, N-(	z-0106	N.I.S. etc.		mg/m3	N		[Unknown]
3356	zzWaste oil	z-0107	N.I.S. etc.		mg/m3	N		[Unknown]

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	State at 25 °C	MP or FP in °C	BP (°C) @ 760 mm Hg unless indicated	Vapor Pressure		SG @ 25 °C unless indicated	SAX Hazard Rating	LEL (ppm)
						mmHg	T in °C			
3344	zzIconol(R)	z-0095								
3345	zzMachine coolant 1	z-0096	L	-5.6	100					
3346	zzMonophase- S	z-0097								
3347	zzMornar	z-0098								
3348	zzOpti-Fluor; (Alkyl benzene blend, 3% tributylphophate)	z-0099	L?							
3349	zzPaint solvent	z-0100	L							
3350	zzPropanol (-2) aluminum derivative	z-0101								
3351	zzScintillation cocktail, Ultima Gold XR	z-0102	L	-30	290-299	2.8		0.96	2	
3352	zzSicapent	z-0103								
3353	zzSynthetic resins	z-0104	L							
3354	zzTotal sequestrant reagent #5	z-0105	L	-0.5	98			1.0325		
3355	zzTrifluoroacetyl)-N,0,0,0-tetrakis((TMS)norepinephrine, N-(	z-0106								
3356	zzWaste oil	z-0107	L	varies	varies	Varies				

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

Table 1: Information on Chemicals included in Protective Action Criteria (PAC) Rev 24

No.	Chemical Compound	CAS Registry Number (CASRN)	PAC-TEEL Derivation/Review/Revision Dates			Source(s) of data used for PACs	NFPA HHR
			Originally derived	Last reviewed	Last revised		
3344	zzIconol(R)	z-0095	07/09/97				
3345	zzMachine coolant 1	z-0096	11/15/96				
3346	zzMonophase- S	z-0097	08/07/98				
3347	zzMornar	z-0098	08/07/98				
3348	zzOpti-Fluor; (Alkyl benzene blend, 3% tributylphophate)	z-0099		06/03/08		MSDS.	
3349	zzPaint solvent	z-0100	09/30/97				
3350	zzPropanol (-2) aluminum derivative	z-0101	08/07/98				
3351	zzScintillation cocktail, Ultima Gold XR	z-0102		06/03/08		MSDS	
3352	zzSicapent	z-0103	08/07/98				
3353	zzSynthetic resins	z-0104	11/15/96				
3354	zzTotal sequestrant reagent #5	z-0105		06/03/08		MSDS	
3355	zzTrifluoroacetyl)-N,0,0,0-tetrakis((TMS)norepinephrine, N-(	z-0106					
3356	zzWaste oil	z-0107	08/21/96				

This table provides physicochemical information obtained from various references. Note that sometimes these values will differ from reference to reference. Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.