Table 2: Protective Action Criteria (PAC) Rev 25 based on applicable 60-minute AEGLs, ERPGs, or TEELs. The chemicals are listed in alphabetical order. August 2009

Table 2 presents an alphabetical listing of the chemicals in the PAC data set and provides the Chemical Abstract Service Registry Numbers (CASRNs)[1], the PAC values, technical information, and comments.

The columns presented in Table 2 provide the following information:

Heading	Definition
No.	The ordered numbering of the chemicals as they appear in this alphabetical listing.
Chemical Name	The name of the chemical or compound that was given to the PAC Development Team.
CASRN	The Chemical Abstract Service Registry Number for each chemical.
TEEL-0	This is the threshold concentration below which most people will experience no adverse health effects. This PAC is always based on TEEL-0 because AEGL-0 or ERPG-0 values do not exist.
PAC-1	Based on the applicable AEGL-1, ERPG-1, or TEEL-1 value.
PAC-2	Based on the applicable AEGL-2, ERPG-2, or TEEL-2 value.
PAC-3	Based on the applicable AEGL-3, ERPG-3, or TEEL-3 value.
Units	The units for the PAC values (ppm or mg/m^3).
Values changed from PAC Rev. 24. TEEL-0 = T-0, PAC-1 = P-1, PAC-2 = P-2, PAC-3 = P-3	Any PAC/TEEL values that have changed are indicated in red by nameT-0, P-1, P-2, and/or P-3.
Comments	Technical comments are provided by the PAC Development Team. Future efforts are directed at reviewing, revising, and enhancing this information.

Chemicals for which **AEGLs** are available have their chemical name, CASRN, and the AEGL values displayed in a **bolded and larger** font. Chemicals for which **ERPGs** are available, but not AEGLs, have their chemical name, CASRN, and the ERPG values displayed in a **bolded** font. Chemicals for which only TEELs are available, have their chemical name, CASRN, and values displayed using a regular font.

The values in the PAC Columns of Table 2 have the following text formatting:

- ***Bold, green, and italicized*** font indicates a PAC between 10% and up to 50% of the LEL (10% LEL ≤ PAC < 50% LEL).
- ***Bold, underlined, pink and italicized*** font indicates a PAC between 50% and up to 100% of the LEL (50% LEL ≤ PAC < 100% LEL).

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

- ***Bold, double underlined, red and italicized*** font indicates a PAC at 100% or more of the LEL (PAC ≥ LEL).

Additional information on PAC values, TEEL values, and links to other sources of information is provided on the Subcommittee for Consequence Assessment and Protective Action (SCAPA) webpage at: http://orise.orau.gov/emi/scapa/teels.htm.

Table 2: Protective Action Criteria (PAC) Rev 25
Based on applicable AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
1	Acacia; (Gum arabic)	9000-01-5	200	500	500	500	mg/m^3		
2	Acenaphthene	83-32-9	0.4	1.25	7.5	250	mg/m^3		
3	Acenaphthylene	208-96-8	0.06	0.2	1.5	500	mg/m^3		
4	**Acetaldehyde**	**75-07-0**	25	**45**	**270**	**840**	ppm		**Interim AEGL-1, -2, -3**
5	Acetamide	60-35-5	25	75	500	500	mg/m^3		
6	Acetanilide	103-84-4	0.4	1	7.5	50	mg/m^3		
7	**Acetic acid**	**64-19-7**	5	**5**	**35**	**250**	ppm		**ERPG-1, -2, -3**
8	Acetic acid ethenyl ester, polymer with 1,1-bis(ethenyloxy) butane and ethenol	27360-07-2	10	30	50	250	mg/m^3		TSCA listed, no toxicity or pchem data found.
9	Acetic acid, 2-propenyl ester	591-87-7	0.5	1.5	10	50	ppm		
10	Acetic acid, lithium salt	546-89-4	12.5	35	250	500	mg/m^3		
11	Acetic acid, manganese(2+) salt, tetrahydrate	6156-78-1	0.892	13.4	22.3	500	mg/m^3	**P-1**	Changed "N" to "Y."
12	Acetic acid, manganese(II) salt (2:1)	638-38-0	0.63	9.45	15.7	500	mg/m^3		Changed "N" to "Y."
13	**Acetic Anhydride**	**108-24-7**	0.5	**0.5**	**15**	**100**	ppm		**ERPG-1, -2, -3**
14	**Acetone**	**67-64-1**	200	**200**	***3200***	***5700***	ppm		**Interim AEGL-1, -2, -3** See LEL formatting note.
15	Acetone thiosemicarbazide	1752-30-3	20	60	100	100	mg/m^3		
16	Acetone-d6	666-52-4	200	200	***3,200***	***5,700***	ppm		Pchem data ex ChemFinder. See LEL formatting note.
17	**Acetonitrile**	**75-05-8**	13	**13**	**320**	**670**	ppm		**Interim AEGL-1, -2, -3**
18	Acetonitrile-d3	2206-26-0	13	13	320	670	ppm	**T-0, P-1, P-2, P-3**	ChemFinder MW and MF. Used Acetonitrile (75-05-8) data.
19	Acetophenone	98-86-2	10	30	50	350	mg/m^3		
20	Acetoxytriphenylstannane	900-95-8	0.345	0.689	20	86.2	mg/m^3	**P-3**	Changed "N" to "Y."

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.
Bold green italics: 10% LEL ≤ PAC < 50% LEL; bold underlined pink italics: 50% LEL ≤ PAC < 100% LEL; bold double underlined red italcs: PAC ≥ LEL.

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Based on applicable AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
21	Acetyl bromide	506-96-7	0.2	0.6	4	20	ppm		
22	Acetyl carbinol; (Acetol (1); 1-Hydroxy-2-propanone)	116-09-6	7.5	25	200	500	mg/m^3		
23	Acetyl chloride	75-36-5	0.0025	0.0075	0.05	125	ppm		
24	Acetyl triethyl citrate	77-89-4	6	20	125	500	mg/m^3		
25	Acetylaminofluorene, 2-	53-96-3	6	15	125	350	mg/m^3	**T-0, P-1, P-2, P-3**	Toxicity data updated.
26	Acetylaminofluorenone, 2-	3096-50-2	0.75	2.5	15	75	mg/m^3		Toxicity data updated.
27	Acetylene	74-86-2	125	350	***2,500***	***6,000***	ppm	**T-0, P-1, P-3**	See LEL formatting note.
28	**Acrolein**	**107-02-8**	0.03	**0.030**	**0.10**	**1.4**	ppm		**Interim AEGL-1, -2, -3**
29	Acrylamide	79-06-1	0.03	7.5	60	60	mg/m^3	**T-0**	
30	Acrylamide, N,N'-methylenebisacrylamide copolymer	25034-58-6	10	30	50	250	mg/m^3		No toxicity data found, PNOS default used.
31	**Acrylic acid**	**79-10-7**	1.5	**1.5**	**46**	**180**	ppm		**Interim AEGL-1, -2, -3**
32	Acrylic acid polymers; (Acrylic polymer or resin)	9003-01-4	10	30	200	500	mg/m^3		
33	**Acrylonitrile**	**107-13-1**	2	**10**	**35**	**75**	ppm		**ERPG-1, -2, -3**
34	Acrylyl chloride; (Acryloyl chloride)	814-68-6	0.05	0.15	0.243	10	ppm		
35	**Adamsite; (Phenarsazine chloride)**	**578-94-9**	0.016	**0.016**	**2.6**	**6.40**	mg/m^3		**Interim AEGL-1, -2, -3** added.
36	Adipic acid	124-04-9	5	5	5	125	mg/m^3		
37	Adipic acid, diethylene glycol, trimethylolpropane, phthalic anhydride, toluenediisocyanate polymer, isocyanate terminated	68609-57-4	10	30	50	250	mg/m^3		No toxicity or pchem data found. Name changed.
38	Adiponitrile	111-69-3	2	3.85	3.85	150	ppm		
39	Aerosol, A-102; (Poly(oxy-1,2-ethanediyl), alpha-(3-carboxy-1-oxo-3-sulfopropyl)-omega-(dodecyloxy)-, -disodium salt)	39354-45-5	125	400	500	500	mg/m^3		No pchem data found, assumed density = 1.00.

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Based on applicable AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
40	Agar	9002-18-0	500	500	500	500	mg/m^3		
41	Agarose, type VII (low gelling temperature); (Sepharose)	9012-36-6	10	30	50	250	mg/m^3		No data found.
42	Alamine 336	68814-95-9	20	60	500	500	mg/m^3		No pchem data found.
43	Albumin (bovine)	9048-46-8	150	500	500	500	mg/m^3		Used human serum Albumin toxicity data.
44	Alcohol oxidase	9073-63-6	10	30	50	250	mg/m^3		TSCA listed, no toxicity or pchem data found.
45	Alcohols, C6-C12 (N.O.S.)	68603-15-6	10	30	50	250	mg/m^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	0.25	0.25	10	25	mg/m^3		
47	Aldrithiol-2; (2,2'-Dithiodipyridine)	2127-03-9	10	30	50	250	mg/m^3		Synonym, MW, MF, MP in ChemFinder.
48	Aliphatic Naphtha	64742-89-8	20	60	400	500	mg/m^3	**T-0, P-1, P-2, P-3**	TSCA listed, no data. Used toxicity data from MSDS.
49	Aliquat 336; (Adogen 464; Quaternary ammonium compounds, tri(C8-10)-alkylmethyl-, chlorides)	63393-96-4	30	75	500	500	mg/m^3		
50	Alizarin; (1,2-Dihydroxyanthraquinone; Turkey red oil)	72-48-0	1.25	4	25	125	mg/m^3		
51	Alizarine Red S, Monohydrate; (Sodium alizarin-3-sulfonate)	130-22-3	0.6	1.5	12.5	60	mg/m^3		
52	Alkanes, C4-12-	68333-81-3	300	300	385	***1,000***	ppm	**P-1, P-3**	Based on octane. MW estimated. See LEL formatting note.
53	Alkenyl dimethylethyl ammonium bromide; (Aliphatic hydrocarbon)	z-0108	2	6	40	200	mg/m^3		
54	Alkyl benzenes (C8-C9)	z-0109	10	30	50	250	mg/m^3		
55	Alkyl dimethylbenzyl ammonium chloride; (Benzalkonium chloride)	8001-54-5	7.5	20	100	100	mg/m^3		
56	Alkylamines	63231-48-1	10	30	50	250	mg/m^3		
57	Alkylbenzene (C10-C16)	68648-87-3	75	250	500	500	mg/m^3	**T-0, P-1, P-2**	PNOS deleted, toxicity data added.
58	Alkylbenzyldimethyl ammonium chloride, (C12-C18)	68391-01-5	1.25	3.5	25	125	mg/m^3	Added.	Added. Data from EPA739-R-06-009 from ExPub.
59	Allene; (1,2-Propadiene)	463-49-0	40	125	750	***4,000***	ppm		See LEL formatting note.

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No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
60	**Allyl alcohol**	**107-18-6**	2	**2.1**	**4.2**	**20**	ppm		**Interim AEGL-1, -2, -3**
61	Allyl Bromide; (3-Bromopropene)	106-95-6	4	12.5	75	400	ppm		
62	**Allyl chloride**	**107-05-1**	1	**2.8**	**54**	**140**	ppm		**Interim AEGL-1, -2, -3** **ERPG-1, -2, -3**
63	**Allyl chlorocarbonate**	**2937-50-0**	0.035	0.1	**0.70**	**2.1**	ppm		**Interim AEGL-2, -3**
64	Allyl isothiocyanate; (Mustard oil)	57-06-7	0.35	1	2.5	12.5	ppm		Ignored rat 14 day oral TDlo.
65	**Allylamine**	**107-11-9**	0.125	**0.42**	**3.3**	**18**	ppm		**Final AEGL-1, -2, -3**
66	Allylmagnesium bromide	1730-25-2	10	30	50	250	mg/m^3		Not found in databases.
67	**Allyltrichlorosilane**	**107-37-9**	0.2	**0.60**	**7.3**	**33**	ppm		**Interim AEGL-1, -2, -3** added.
68	Alpha,alpha,4-trimethyl-3-cyclohexene-1-methanol, (S)-; (alpha-Terpineol)	10482-56-1	125	350	500	500	mg/m^3		HSDB & TSCA listed, SAX, RTECS, TSCA CASRN = 98-55-5, RTECS & HC&P CASRN = 2438-12-2
69	Alpha-hydroxybenzeneacetic acid, (+-)-; (DL-mandelic acid)	611-72-3	15	50	350	500	mg/m^3		TSCA listed, no toxicity data. Used normal Mandelic acid (CAS 90-64-2) data.
70	Aluminon	569-58-4	4.00E-04	0.00125	0.0075	500	mg/m^3		
71	Aluminum	7429-90-5	5	5	500	500	mg/m^3	**T-0, P-1, P-2, P-3**	
72	Aluminum acetate, basic	7360-44-3	8.9	26.7	44.5	200	mg/m^3	**T-0, P-1, P-2, P-3**	TSCA listed, TSCA MF, MW calculated, no toxicity data.
73	Aluminum carbide	1299-86-1	6.67	6.67	6.67	35	mg/m^3	**T-0, P-1**	
74	Aluminum chloride	7446-70-0	9.88	9.88	60	500	mg/m^3	**T-0, P-1**	
75	Aluminum chloride hexahydrate	7784-13-6	17.9	25	150	500	mg/m^3	**T-0**	
76	Aluminum fluoride	7784-18-1	6.22	6.22	7.5	40	mg/m^3	**T-0, P-1**	
77	Aluminum grey LB; (Acid black 60)	12218-95-0	8.44	25.3	42.2	422	mg/m^3		Name changed. MF ex TSCA, no Al in MF.
78	Aluminum hexafluorosilicate	17099-70-6	3.51	10.5	17.6	351	mg/m^3		Added.
79	Aluminum hydroxide	21645-51-2	4	12	125	125	mg/m^3	**T-0, P-1**	

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
80	Aluminum oxide hydrate	1333-84-2	1.5	1.5	15	25	mg/m^3	**T-0, P-1, P-3**	Found MF in NIH Chemical Information SIS, MW calculated for x = 2(H2.O).
81	Aluminum oxide; (Alumina)	1344-28-1	1.5	1.5	15	25	mg/m^3		
82	Aluminum phosphate; (Phosphoric acid, aluminum salt (1:1), solution)	7784-30-7	22.6	100	500	500	mg/m^3	**T-0, P-1**	
83	**Aluminum phosphide**	**20859-73-8**	0.907	0.907	**2.0**	**3.6**	ppm		**Final AEGL-2, -3**
84	Aluminum potassium sulfate	10043-67-1	47.8	47.8	47.8	100	mg/m^3	**T-0, P-1**	
85	Aluminum potassium sulfate, dodecahydrate	7784-24-9	87.9	87.9	125	500	mg/m^3	**T-0, P-1**	
86	Aluminum sulfate	10043-01-3	31.7	31.7	31.7	500	mg/m^3	**T-0, P-1**	
87	Aluminum tris(dihydrogen phosphate); (Phosphoric acid, aluminum salt (3:1)	13530-50-2	59.5	59.5	60	300	mg/m^3	**T-0, P-1**	TSCA listed, no toxicity data.
88	Aluminum yellow 4A; (Acid yellow 99)	10343-58-5	4.97	14.9	25	249	mg/m^3	**P-1, P-2**	MF ex TSCA, no Al in MF.
89	Aluminum(III) isopropylate	555-31-7	37.9	37.9	37.9	500	mg/m^3	**T-0, P-1**	SAX, RTECS, H&N, ChemFinder MF used, differs from HSDB and TSCA.
90	Aluminum(III) nitrate (1:3)	13473-90-0	39.5	50	350	500	mg/m^3	**T-0, P-1**	
91	Aluminum(III) nitrate nonahydrate (1:3:9)	7784-27-2	69.5	69.5	150	500	mg/m^3	**T-0, P-1**	
92	Aluminum(III) silicate (2:1); (Kyanite; Oil-dri)	1302-76-7	15	15	75	400	mg/m^3	**T-0, P-1**	
93	Amberlite IR-120(PLUS) ion-exchange resin	78922-04-0	2	6	40	200	mg/m^3	**T-0, P-1, P-2**	ChemFinder listed, no toxicity data found, used Amberlite-LA-1, CASRN 12642-13-6. MSDS CASRN=39389-20-3.
94	Amberlite IR-120plus ion-exchange resin, sodium form; (Cation exchange resin)	9002-23-7	2	6	40	200	mg/m^3	**T-0, P-1, P-2, P-3**	Not found in databases, but several RTECS Amberlite IR-120 compound listings. MSDS vp and HHR, CASRN=68441-33-8.
95	Amberlite IRA-400(CI); (Amberlite IRA-400, ion-exchange resin)	9002-24-8	10	30	50	250	mg/m^3		MSDS has no useful information, but CASRN=122560-63-8. Used PNOS default.
96	Amberlite IRA-400(CL); (Ion exchange resin)	122560-63-8	10	30	50	250	mg/m^3		MSDS has no useful information. Used PNOS default.
97	Amberlite MB-1 ion-exchange resin; (Amberlite MB-150)	100915-96-6	20	60	400	500	mg/m^3	**T-0, P-1, P-2, P-3**	MSDS toxicity and pchem data.
98	Amberlite XAD-16 resin	104219-63-8	20	60	400	500	mg/m^3	**T-0, P-1, P-2, P-3**	Used Amberlite-MB-1, CASRN = 100915-96-6. Specified CASRN gave XAD-16 (NLM), but MSDS CASRN = 9003-69-4 for XAD-16. Name changed.

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
99	Amberlite XAD-2 resin, purified	9060-05-3	10	30	50	250	mg/m^3	P-3	MSDS has no useful information, used PNOS default.
100	Amberlite XAD-7HP	37380-43-1	10	30	50	250	mg/m^3	P-3	MSDS has no useful information, used PNOS default.
101	Amberlyst 15 ion-exchange resin	9037-24-5	10	30	50	250	mg/m^3		Not found in databases. MSDS has CASRN 39389-20-3, but no useful data.
102	Amino-1,3-naphthalenedisulfonic acid, 7-	86-65-7	3.5	10	75	400	mg/m^3		
103	Amino-1-propanol, 3-	156-87-6	0.015	0.04	0.3	500	mg/m^3		
104	Amino-2-(hydroxymethyl)-1,3-propanediol, 2-, acetate salt; (Trizma acetate)	6850-28-8	25	75	500	500	mg/m^3		TSCA listed, MSDS toxicity data.
105	Amino-2-methyl-2-propanol, 1-	2854-16-2	10	30	200	500	mg/m^3		
106	Amino-4,6-dinitrotoluene, 2-	35572-78-2	6	15	125	500	mg/m^3		
107	Aminoacetaldehyde diethyl acetal; (2,2-Diethoxyethylamine)	645-36-3	7.5	25	150	500	mg/m^3		TSCA listed, no toxicity data found. HHR assumed = 2.
108	Aminoacetaldehyde dimethyl acetal; (2,2-Dimethoxyethylamine)	22483-09-6	10	30	50	250	mg/m^3		
109	Aminoanthraquinone, 2-	117-79-3	7.5	25	150	500	mg/m^3		
110	Aminobenzoic acid, p-	150-13-0	5	15	100	500	mg/m^3		
111	Aminobutyl)diethoxymethylsilane, (4-	3037-72-7	2	6	45	45	mg/m^3		
112	Aminodiphenyl, p-	92-67-1	0.5	1.5	10	200	mg/m^3		
113	Aminoethoxy)ethanol, 2(2-	929-06-6	12.5	35	250	500	mg/m^3		Added.
114	Aminoethyl)diphenylborinic acid, o-(2-; (Diphenylboronic acid)	524-95-8	0.4	1.25	10	50	mg/m^3		
115	Aminoethylethanolamine	111-41-1	12.5	35	250	500	mg/m^3		Added.
116	Aminoethylpiperazine, N-	140-31-8	2.5	7.5	50	500	mg/m^3		
117	Aminoheptane, 3-; (3-Heptylamine)	28292-42-4	0.06	0.15	1.25	6	ppm		
118	Aminoiminomethyl)urea sulfate(2:1), (	591-01-5	10	30	50	250	mg/m^3		TSCA listed, no toxicity data.

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No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
119	Aminophenol, 2-; (Aminophenol, o-)	95-55-6	0.5	1.5	10	500	mg/m^3		
120	Aminophenol, m-	591-27-5	1	3	20	125	mg/m^3		
121	Aminopropiophenone, 4-	70-69-9	1	3.5	5.6	75	mg/m^3		
122	Aminopropylmethyldiethoxysilane, 3-	3179-76-8	15	50	400	500	mg/m^3		MSDS pchem data.
123	Aminopropyltriethoxysilane; (3-(Triethoxysilyl)-1-propanamine)	919-30-2	6	15	125	500	mg/m^3		HC&P has BP = 119 C. Duplicate deleted.
124	Aminopterin; (Aminopteridine)	54-62-6	5	15	25	25	mg/m^3		
125	Aminopyrazine	5049-61-6	0.5	1.5	2.5	5	ppm		**SAR**
126	Aminopyridine, 4-; (4-Pyridinamine)	504-24-5	4	12.5	20	20	mg/m^3		
127	Amiton oxalate	3734-97-2	0.6	1.5	3	3	mg/m^3		
128	Amiton; (O,O-Diethyl-S-(2-diethylaminoethyl) thiophosphate)	78-53-5	0.6	2	3.3	3.3	mg/m^3		
129	Amitrole	61-82-5	0.2	0.6	125	500	mg/m^3		
130	**Ammonia**	**7664-41-7**	25	**30**	**160**	**1100**	ppm		**Final AEGL-1, -2, -3**
131	Ammonia-d3	13550-49-7	25	30	160	1,100	ppm	**T-0, P-2, P-3**	Not found in databases. MW and MF ex ChemFinder.
132	Ammonium acetate	631-61-8	2.5	7.5	50	250	mg/m^3		
133	Ammonium aluminum fluoride; (Triammonium hexafluoroaluminate)	7784-19-2	4.28	12.5	75	428	mg/m^3	**P-1, P-2, P-3**	Fluoride conc. Limits used.
134	Ammonium benzoate	1863-63-4	3.5	10	75	350	mg/m^3		
135	Ammonium bicarbonate	1066-33-7	2	6	40	200	mg/m^3		
136	Ammonium bisulfate; (Ammonium hydrogen sulfate)	7803-63-6	0.025	0.075	0.5	2.5	mg/m^3		
137	Ammonium bisulfite; (Ammonium hydrogen sulfite)	10192-30-0	10	30	50	250	mg/m^3	**P-1, P-2, P-3**	No toxicity data found. Changed "Y" to "N."
138	Ammonium bromide	12124-97-9	10	35	200	500	mg/m^3		

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No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
139	Ammonium carbamate; (Carbamic acid, ammonium salt)	1111-78-0	0.3	1	6	35	mg/m^3		
140	Ammonium carbonate	506-87-6	0.75	2.5	15	75	mg/m^3		
141	Ammonium chloride	12125-02-9	10	20	500	500	mg/m^3		
142	Ammonium chromate	7788-98-9	0.0146	1.25	7.5	43.9	mg/m^3	**P-1**	
143	Ammonium citrate	7632-50-0	1.25	4	30	150	mg/m^3	**T-0, P-1**	PNOS deleted. RTECS MW requires 7 (N.H3).
144	Ammonium citrate tribasic	3458-72-8	1.5	5	35	185	mg/m^3	**T-0, P-1, P-2, P-3**	Not found in databases. MSDS pchem data.
145	Ammonium citrate, dibasic	3012-65-5	2	6	40	200	mg/m^3	**T-0, P-1, P-2, P-3**	No useful toxicity data found, but inhalation caused difficulty breathing in humans, therefore "Y" chemical.
146	Ammonium dichromate	7789-09-5	0.0121	1	7.5	36.4	mg/m^3	**P-1**	
147	Ammonium dihydrogen phosphate; (Monoammonium phosphate)	7722-76-1	15	50	350	500	mg/m^3		
148	Ammonium ferrous sulfate hexahydrate	7783-85-9	3.19	9.56	15.9	500	mg/m^3		
149	Ammonium fluoborate	13826-83-0	3.45	3.45	6	345	mg/m^3	**P-3**	
150	Ammonium fluoride	12125-01-8	4.88	4.88	4.88	488	mg/m^3	**P-3**	
151	Ammonium formate	540-69-2	7.5	25	200	500	mg/m^3	**T-0, P-1, P-2**	
152	Ammonium hexachlorohydrate (III)	z-0001	10	30	50	250	mg/m^3		
153	Ammonium hexafluorosilicate; (Ammonium silicofluoride)	16919-19-0	3.91	11.7	20	391	mg/m^3	**P-3**	
154	Ammonium hydrogen fluoride; (Ammonium bifluoride)	1341-49-7	3.75	10	75	375	mg/m^3	**P-1, P-2, P-3**	Added IDLH for fluorides.
155	Ammonium hydrogen oxalate hemihydrate	37541-72-3	7.5	25	150	500	mg/m^3		Not found in databases. ChemFinder MF, MW. MSDS HHR = 2.
156	Ammonium hydroxide	1336-21-6	2	6	40	100	ppm		
157	Ammonium iodide	12027-06-4	4	12.5	75	400	mg/m^3		
158	Ammonium lactate	515-98-0	10	35	200	500	mg/m^3		CASRN changed from 52003-58-4. Toxicity data added.

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Table 2: Protective Action Criteria (PAC) Rev 25
Based on applicable AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
159	Ammonium lignin sulfonate	8061-53-8	10	30	50	250	mg/m^3		
160	Ammonium molybdate(VI) tetrahydrate	12054-85-2	6.07	18.2	30.3	150	mg/m^3	**T-0, P-1, P-2**	Soluble compound of Mo. HC&P has MW = 1235.86, adding 4(H2.O). PEL-TWA and IDLH suppressed.
161	Ammonium molybdate; (Diammonium molybdate)	13106-76-8	30.7	61.3	102	300	mg/m^3	**T-0, P-1, P-2, P-3**	Insoluble Mo compound. HSDB has incorrect MF and MW.
162	Ammonium molybdophosphate	12026-66-3	24.4	48.9	81.5	400	mg/m^3	**T-0, P-1, P-2, P-3**	Insoluble Mo compound.
163	Ammonium nickel sulfate	15699-18-0	4.89	4.89	5	48.9	mg/m^3		Nickel concentration limits.
164	Ammonium nitrate	6484-52-2	0.015	0.04	0.3	500	mg/m^3	**T-0, P-1, P-2**	PNOS deleted.
165	Ammonium oxalate monohydrate	5972-73-6	1.5	4	30	150	mg/m^3		This CASRN in H&N, with MW = 125.08.
166	Ammonium oxalate; (Diammonium oxalate monohydrate)	6009-70-7	1.5	4	30	150	mg/m^3		
167	Ammonium oxalate; (Ethanedioic acid, diammonium salt)	1113-38-8	0.15	0.5	4	20	mg/m^3		
168	Ammonium pentaborate	12007-89-5	10	30	50	250	mg/m^3		
169	Ammonium perchlorate	7790-98-9	5	15	100	500	mg/m^3		
170	Ammonium permanganate	13446-10-1	0.2	3	5	500	mg/m^3		Manganese concentration limits.
171	Ammonium persulfate	7727-54-0	0.1	2.5	20	100	mg/m^3	**P-1**	
172	Ammonium phosphate dibasic	7783-28-0	10	30	50	250	mg/m^3		
173	Ammonium picrate	131-74-8	10	30	50	250	mg/m^3		
174	Ammonium polyacrylate	9003-03-6	10	30	50	250	mg/m^3		TSCA listed, no toxicity data, no MSDS, assumed solid.
175	Ammonium sulfamate	7773-06-0	15	30	350	500	mg/m^3	**T-0, P-2**	
176	Ammonium sulfate	7783-20-2	40	125	500	500	mg/m^3		
177	Ammonium sulfide	12135-76-1	3.5	10	15	15	ppm		
178	Ammonium sulfite	10196-04-0	10	10	10	10	mg/m^3		Soluble compound, irritation in humans.

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
179	Ammonium sulfite monohydrate	7783-11-1	10	30	50	250	mg/m^3		HC&P listed, no toxicity data found.
180	Ammonium tartrate; (Butanedioic acid, 2,3-dihydroxy-(2R,3R)-. Ammonium salt)	14307-43-8	10	30	50	250	mg/m^3	**P-1, P-2, P-3**	No useful data found. Changed "Y" to "N."
181	Ammonium tartrate; (Diammonium tartrate)	3164-29-2	1.5	5	40	200	mg/m^3		Changed "Y" to "N," since no evidence of irritation found.
182	Ammonium thiocyanate	1762-95-4	12.5	35	200	200	mg/m^3		
183	Ammonium thiosulfate; (Ammonium hyposulfite)	7783-18-8	7.5	25	200	500	mg/m^3	**T-0, P-1, P-2**	PNOS deleted.
184	Ammonium tungstate(VI)	11120-25-5	1.38	4.14	4.14	4.14	mg/m^3	**P-2, P-3**	TSCA, HC&P listed, no toxicity data.
185	Ammonium vanadate; (Ammonium vanadium oxide; Ammonium metavanadate)	7803-55-6	0.0322	0.04	0.322	0.75	mg/m^3	**P-1, P-3**	
186	Ammonium, hexadecyltrimethyl-, bromide; (Hexadecyltrimethylammonium bromide)	57-09-0	0.035	0.1	0.75	150	mg/m^3		
187	Ammonium, tetraethyl, bromide; (Tetraethyl ammonium bromide)	71-91-0	1.25	4	30	40	mg/m^3		
188	Ammonium, tetramethyl, bromide; (Tetramethylammonium bromide)	64-20-0	0.2	0.6	4	20	mg/m^3		
189	Amosite	12172-73-5	0.005	0.05	20	100	mg/m^3	**P-2, P-3**	1 fiber/cc = 0.05 mg/m^3 assumed.
190	Amphetamine; (Benzedrine)	300-62-9	4	12.5	20	20	mg/m^3		
191	Amyl acetate	628-63-7	100	100	100	1,000	ppm		SAX toxicity data not in RTECS.
192	Amyl alcohol; (1-Pentanol)	71-41-0	20	20	20	35	ppm	**T-0, P-1, P-2, P-3**	WEEL-TWA suppressed because > MAK-TWA and >> toxicity-based T-2, T-3.
193	Amyl methyl ether, tert-; (TAME)	994-05-8	20	125	125	125	ppm		
194	Amylamine, n-; (1-Pentylamine)	110-58-7	0.3	0.75	6	30	mg/m^3		
195	**Amyltrichlorosilane; (Pentyltrichlorosilane)**	**107-72-2**	0.2	**0.60**	**7.3**	**33**	ppm		**Interim AEGL-1, -2, -3** added.
196	Anhydrone; (Magnesium perchlorate)	10034-81-8	6	15	125	500	mg/m^3		
197	**Aniline**	**62-53-3**	5	**8.0**	**12**	**20**	ppm		**Final AEGL-1, -2, -3**
198	Anisidine, o-	90-04-0	0.5	1.5	2.5	50	mg/m^3		

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
199	Anisidine, p-	104-94-9	0.5	1.5	2.5	50	mg/m^3		
200	Anisole; (Anisole anhydrous; Methoxybenzene)	100-66-3	4	12.5	75	400	mg/m^3		
201	Anthracene	120-12-7	1.5	4	30	150	mg/m^3		
202	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	12.5	35	250	500	mg/m^3		
203	Anthranilic acid	118-92-3	4	12.5	100	500	mg/m^3		
204	Anthraquinone	84-65-1	5	15	100	500	mg/m^3	**T-0, P-1, P-2**	PNOS deleted.
205	Antimony	7440-36-0	0.5	1.5	20	50	mg/m^3		
206	Antimony oxide	1309-64-4	0.599	1.8	4	59.9	mg/m^3		
207	Antimony pentachloride	7647-18-9	1.23	3.68	6.14	123	mg/m^3		
208	Antimony pentafluoride	7783-70-2	0.89	0.89	2.7	89	mg/m^3		
209	Antimony pentasulfide	1315-04-4	0.829	2.49	4.15	82.9	mg/m^3		
210	Antimony potassium tartrate trihydrate	28300-74-5	1.37	4.11	6.86	137	mg/m^3		
211	Antimony trichloride	10025-91-9	0.937	0.937	0.937	93.7	mg/m^3		
212	Antimony trifluoride	7783-56-4	0.734	0.734	4	73.4	mg/m^3		
213	Antimycin A	1397-94-0	0.35	1	1.8	12.5	mg/m^3		
214	Antioxidant G-16 (most toxic antioxident)	61373-87-3	1.25	3.5	25	125	mg/m^3	**T-0, P-1, P-2**	Deleted PNOS.
215	Aqua regia (75% hydrochloric + 25% nitric acid)	8007-56-5	0.51	1.13	22.5	97.9	ppm	**T-0, P-1, P-2**	0.75 HCl+0.25 HNO3, MW from H&N.
216	Arginine, L-	74-79-3	10	30	50	250	mg/m^3		No useful data found.
217	Argon	7440-37-1a	65,000	65,000	2.30E+05	4.00E+05	ppm		Simple asphyxiant.
218	Argon, cryogenic	7440-37-1b	65,000	65,000	2.30E+05	4.00E+05	ppm		As Ar, simple asphyxiant.

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
219	Aromatic hydrocarbon solvents; (High flash naphtha distillates; Solvent naphtha (petroleum), light aromatic)	64742-95-6	500	750	750	750	ppm		
220	Aromatic isocyanate mixture "SWD 305A"	z-0111	1.25	4	20	125	mg/m^3		Used 52% 9016-87-9, 5% 26447-40-5, 42% 101-68-8, 1% 103-71-9.
221	Arsenic	7440-38-2	0.01	0.35	2	5	mg/m^3	**P-3**	REL-C suppressed.
222	Arsenic acid	1327-52-2	0.0189	0.4	3	9.5	mg/m^3	**P-1, P-3**	
223	Arsenic acid; (o-Arsenic acid)	7778-39-4	0.0189	0.4	3	9.5	mg/m^3		
224	Arsenic pentoxide	1303-28-2	0.0153	1	7.7	7.7	mg/m^3		
225	**Arsenic trioxide**	**1327-53-3**	0.0132	0.4	**3.0**	**9.1**	mg/m^3		**Interim AEGL-2, -3**
226	Arsenous acid	13464-58-9	0.0168	0.25	1.5	8.4	mg/m^3	**P-1, P-2**	Concentration limits as As
227	Arsenous trichloride	7784-34-1	0.0242	0.2	1.35	12.1	ppm	**P-1**	Concentration limits as As.
228	**Arsine**	**7784-42-1**	0.05	0.05	**0.17**	**0.50**	ppm		**Final AEGL-2, -3**
229	Asbestos	1332-21-4	0.005	0.05	0.06	0.3	mg/m^3	**P-1, P-2, P-3**	Conversion used 1 fiber per cc = 0.05 mg/m^3.
230	Asbestos (Chrysotile)	12001-29-5	0.005	0.05	250	250	mg/m^3	**P-1, P-2**	Conversion used 1 fiber per cc = 0.05 mg/m^3.
231	Ascaridole	512-85-6	0.75	2.5	20	75	mg/m^3		
232	Ascarite; (Asbestos, 1332-21-4)	81133-20-2	0.1	0.3	0.5	2.5	mg/m^3	**T-0, P-1**	Assumed not to be "Ascarite-2," which does not contain asbestos.
233	Ascorbic acid	50-81-7	60	200	500	500	mg/m^3		
234	Asphalt; (Bitumen)	8052-42-4a	0.5	0.75	5	25	mg/m^3		See also Petroleum asphalt, SAX PCR500.
235	Auramine; (4.4'-(Imidocarbonyl)bis(N,N-dimethylamine) monohydrochloride)	2465-27-2	2.5	7.5	60	60	mg/m^3		Synonym changed. PNOC deleted, MW corrected to RTECS and HSDB.
236	Azaserine; (L-Serine, diazoacetate (ester))	115-02-6	0.0125	0.04	0.25	75	mg/m^3		
237	Azinphos ethyl; (Ethyl guthion)	2642-71-9	0.75	2	3.9	150	mg/m^3		
238	Azinphos methyl; (Guthion)	86-50-0	0.2	0.6	0.7	10	mg/m^3		

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
239	Aziridine homopolymer; (Ethylenimine homopolymer; Poly(ethyleneimine)	9002-98-6	5	15	100	500	mg/m^3		Lowest MW compound selected.
240	Azobis(2-methylpropionitrile), 2,2'-	78-67-1	7.5	25	150	300	mg/m^3		
241	Azodicarbamide; (Azodicarbonamide)	123-77-3	40	125	200	200	mg/m^3		
242	Bacto peptone	51142-18-8	10	30	50	250	mg/m^3		Not in databases, no useful data in MSDS.
243	Barbituric acid	67-52-7	2	6	40	200	mg/m^3		
244	Barium	7440-39-3	0.5	1.5	50	50	mg/m^3	**P-3**	
245	Barium acetate; (Barium acetate anhydrous)	543-80-6	0.93	2.79	4.65	93	mg/m^3		Ba sol compounds as Ba.
246	Barium carbonate	513-77-9	0.5	1.5	6	50	mg/m^3	**T-0, P-1, P-3**	Ba sol compounds as Ba.
247	Barium chloride	10361-37-2	0.5	1.5	15	50	mg/m^3		Ba sol compounds as Ba.
248	Barium chloride dihydrate	10326-27-9	0.889	2.67	4.45	88.9	mg/m^3		Ba sol compounds as Ba.
249	Barium chromate	10294-40-3	0.0246	0.737	1.25	73.7	mg/m^3		Chromium (VI) concentration limits.
250	Barium cyanide	542-62-1	0.69	2.07	3.5	69	mg/m^3		Ba sol compounds as Ba.
251	Barium dioxide; (Barium peroxide)	1304-29-6	0.617	1.5	12.5	61.7	mg/m^3	**P-1, P-2, P-3**	Ba sol compounds as Ba.
252	Barium diphenylamine sulfonate	6211-24-1	2.31	6.92	11.5	231	mg/m^3		Ba sol compounds as Ba.
253	Barium fluoride	7787-32-8	0.638	1.92	63.8	63.8	mg/m^3	**P-2, P-3**	Ba sol compounds as Ba.
254	Barium hydrogen phosphate; (Barium phosphate dibasic)	10048-98-3	0.849	2.55	4.25	84.9	mg/m^3	**P-3**	Ba sol compounds as Ba.
255	Barium hydroxide	17194-00-2	0.624	1.87	3.12	62.4	mg/m^3		Ba sol compounds as Ba.
256	Barium hydroxide octahydrate	12230-71-6	1.15	3	20	115	mg/m^3		Ba sol compounds as Ba.
257	Barium metaborate	13701-59-2	10	30	200	500	mg/m^3		
258	Barium nitrate	10022-31-8	0.952	2.5	20	95.2	mg/m^3		Ba sol compounds as Ba:

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Based on applicable AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
259	Barium nitrite	13465-94-6	0.835	2.5	4.17	83.5	mg/m^3	**P-3**	Ba sol compounds as Ba:
260	Barium oxide	1304-28-5	0.558	1.67	2.79	55.8	mg/m^3		Ba sol compounds as Ba:
261	Barium permanganate	7787-36-2	1.37	20.5	34.1	34.1	mg/m^3		Sparingly sol in H2O, Mn compound conc limits as Mn.
262	Barium phosphate	13466-20-1	60	150	300	500	mg/m^3	**T-0, P-1, P-2, P-3**	Insol in H2.O, used phosphoric acid IDLH.
263	Barium stearate	6865-35-6	10	30	200	500	mg/m^3		SAX & TSCA have H72, MW=706.4; RTECS & H&N have H70, MW=704.40.
264	Barium sulfate	7727-43-7	15	30	350	500	mg/m^3		
265	Basic Green 4; (Aizen malachite green)	569-64-2	0.35	1	6	35	mg/m^3		
266	Basic Red 1; (Rhodamine 6G extra base)	989-38-8	0.025	0.075	0.6	2.5	mg/m^3		
267	Bathophenanthroline	1662-01-7	75	250	500	500	mg/m^3		MSDS states non-hazardous, therefore assume HHR = 1.
268	Bentonite; (Clay absorbent)	1302-78-9	10	30	30	30	mg/m^3	**P-2, P-3**	
269	Benz(e)acephenanthrylene; (Benzo(b)fluoroanthene)	205-99-2	0.2	0.6	4	20	mg/m^3		
270	Benzal chloride	98-87-3	0.4	1.25	2.3	75	mg/m^3	**P-3**	
271	Benzaldehyde	100-52-7	2	4	4	150	ppm		
272	Benzamide	55-21-0	3	10	60	350	mg/m^3		
273	Benzenamine, sulfate (2:1)	542-16-5	10	30	50	250	mg/m^3		TSCA listed, no toxicity data found.
274	**Benzene**	**71-43-2**	1	**52**	**800**	***4000***	ppm		**Interim AEGL-1, -2, -3** See LEL formatting note.
275	Benzene hexachloride; (Hexachlorocyclohexane, mixed isomers)	608-73-1	0.15	0.5	4	300	mg/m^3		Toxicity data updated.
276	Benzene, 1-(chloromethyl)-4-nitro-; (p-Nitrobenzyl chloride)	100-14-1	5	15	28	125	mg/m^3		
277	Benzenearsonic acid; (Phenylarsonic acid)	98-05-5	0.27	0.27	0.27	0.27	mg/m^3		T-0 > LOC, T-3 < LOC.
278	Benzene-d6; (Deuterated benzene)	1076-43-3	1	52	800	***4,000***	ppm	**P-2, P-3**	

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
279	Benzenesulfonic acid chloride; (Benzenesulfonyl chloride)	98-09-9	40	125	200	200	mg/m^3	**T-0, P-1**	
280	Benzenesulfonic acid, 4-chloro	98-66-8	2	6	40	200	mg/m^3		Added.
281	Benzenesulfonic acid, 5-chloro-2	z-0114	2	6	50	200	mg/m^3	**T-0, P-1, P-3**	Added. Not found in databases.
282	Benzenetetracarboxylic dianhydride, 1,2,4,5-	89-32-7	1.5	5	15	15	mg/m^3		
283	**Benzenethiol; (Thiophenol; Phenyl mercaptan)**	**108-98-5**	0.1	0.1	**0.53**	**1.6**	ppm		**Interim AEGL-2, -3**
284	Benzidene	92-87-5	0.15	0.5	3.5	125	mg/m^3		
285	Benzo(a)anthracene	56-55-3	0.2	0.6	4	15	mg/m^3	**T-0, P-1, P-2**	
286	Benzo(a)pyrene; (Coal tar pitch volatiles)	50-32-8	0.2	0.6	15	80	mg/m^3		IDLH for coal tar volatiles.
287	Benzo(ghi)perylene	191-24-2	10	30	50	250	mg/m^3		No toxicity data found.
288	Benzo(k)fluoranthene	207-08-9	0.2	0.6	4	20	mg/m^3		
289	Benzo-4,7,13,16,21,24-hexaoxa-1,10-diazabicyclo(8.8.8)hexacosane, 5,6-	31250-18-7	1.5	5	35	150	mg/m^3		Not found in databases. MSDS MW, SG.
290	Benzoic acid	65-85-0	4	12.5	75	400	mg/m^3		
291	Benzoic acid, sodium salt	532-32-1	100	350	500	500	mg/m^3		No pchem data found.
292	Benzoin oxime	441-38-3	0.6	1.5	12.5	60	mg/m^3		Rat LD > 500 mg/kg. No pchem data found.
293	**Benzonitrile**	**100-47-0**	1	3	**22**	**56**	ppm		**Interim AEGL-2, -3** units changed.
294	Benzophenone	119-61-9	0.5	1.5	350	500	mg/m^3		
295	Benzoquinone, p-; (Quinone)	106-51-4	0.1	0.3	5	22.6	ppm	**P-2**	
296	Benzothiazole	95-16-9	5	15	100	150	mg/m^3		
297	Benzotriazole	95-14-7	0.025	0.075	0.5	250	mg/m^3		
298	Benzotrifluoride	98-08-8	6.41	15	125	500	mg/m^3		

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
299	**Benzoyl chloride**	**98-88-4**	0.1	**0.3**	**5**	**20**	ppm		**ERPG-1, -2, -3**
300	Benzoyl peroxide	94-36-0	5	5	5	500	mg/m^3	**P-2**	
301	Benzyl acetate	140-11-4	10	10	10	30	ppm		
302	Benzyl alcohol	100-51-6	10	60	150	150	ppm		
303	Benzyl aminopurine, 6-; (6-Benzyladenine)	1214-39-7	5	15	100	500	mg/m^3		
304	Benzyl benzoate	120-51-4	12.5	35	250	500	mg/m^3		
305	**Benzyl chloride**	**100-44-7**	1	**1**	**10**	**50**	ppm		**ERPG-1, -2, -3**
306	**Benzyl chloroformate; (Carbobenzoxy chloride)**	**501-53-1**	0.04	0.125	**0.97**	**2.9**	ppm		**Interim AEGL-2, -3** Units changed.
307	Benzyl cyanide; (Phenylacetonitrile)	140-29-4	0.2	0.6	4.3	30	mg/m^3		
308	Benzyl trichloride; (Trichloromethylbenzene)	98-07-7	0.35	1	7	10	mg/m^3	**P-3**	Toxicity concentration dependence changed from "N" to "Y."
309	Benzylamine	100-46-9	2.5	7.5	50	250	mg/m^3		
310	Benzyldimethylamine; (Dimethylbenzylamine, N,N-; BDMA)	103-83-3	1	3	20	200	mg/m^3		
311	Benzyldimethyloctadecylammonium chloride; (Dimethyloctadecylbenzylammonium chloride)	122-19-0	5	15	100	500	mg/m^3		
312	Benzylmagnesium chloride	6921-34-2	1.5	5	35	150	mg/m^3		TSCA listed. Water reactive, it is in solution of diethyl ether or tetrahydrofuran. No toxicity data found.
313	Benzyltrimethylammonium hydroxide; (Triton b)	100-85-6	0.1	0.35	2.5	12.5	mg/m^3		
314	**Beryllium**	**7440-41-7**	0.002	0.0035	**0.025**	**0.1**	mg/m^3	**P-1**	**ERPG-2, -3**
315	Beryllium chloride	7787-47-5	0.0177	0.0177	0.0443	35.5	mg/m^3	**P-1**	
316	Beryllium fluoride	7787-49-7	0.0104	0.0104	0.0261	20.9	mg/m^3	**P-1**	
317	Beryllium hydroxide	13327-32-7	0.00955	0.035	0.239	19.1	mg/m^3	**P-1**	
318	Beryllium nitrate	13597-99-4	0.0295	1	7.38	59	mg/m^3	**P-1**	

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
319	Beryllium oxide	1304-56-9	0.00555	0.2	1.39	11.1	mg/m^3	**P-1**	
320	Betaine, anhydrous; (Glycine betaine)	107-43-7	40	125	500	500	mg/m^3		
321	Bicyclo(2.2.1)heptane-2-carbonitrile, 5-chloro-6-((((methylamino)carbonyl)oxy)imino)-, (1S-(1-alpha,2-beta,4-alpha,5-alpha,6E))-; (Tranid)	15271-41-7	3.5	10	19	19	mg/m^3		Names vary from source to source, CASRN identifies.
322	Bioxirane, 2,2'-; (1,2:3,4-Diepoxybutane)	1464-53-5	0.04	0.125	0.995	10	ppm		
323	Biphenylol, 4-	92-69-3	10	35	60	60	mg/m^3		
324	Biphenylol, sodium salt, 2-	132-27-4	2.5	7.5	60	300	mg/m^3		
325	Bis(1,1-dimethylethyl)-4-ethylphenol, 2,6-	4130-42-1	4	12.5	75	400	mg/m^3		
326	Bis(1,1-dimethylethyl)-4-methylphenol, 2,6-; (BHT (food grade); 2,6-Di-tert-butyl-p-cresol)	128-37-0	2	6	40	400	mg/m^3		
327	Bis(1-methylethyl)benzene, 1,4-; (p- or 1,4-Diisopropylbenzene)	100-18-5	6	20	150	500	mg/m^3	**T-0, P-1, P-2**	
328	Bis(1-methylethyl)benzene; (Diisopropylbenzene)	25321-09-9	5	15	100	500	mg/m^3		
329	Bis(2,3-epoxypropoxy) butane, 1,4-	2425-79-8	30	100	500	500	mg/m^3		
330	Bis(2-butoxyethyl) ether; (Dibutyl carbitol; Diethylene glycol dibutyl ether)	112-73-2	6	15	125	200	ppm		
331	Bis(2-chlorethylthioethyl) ether; (2,2'-Di(3-chloroethylthio)diethyl ether)	63918-89-8	0.3	0.75	6	30	mg/m^3		
332	Bis(2-Chloroethoxy)ethane, 1,2-; (Triglycol dichloride)	112-26-5	1	3	20	100	mg/m^3		
333	**Bis(2-chloroethyl)sulfide; (HD; Sulfur mustard)**	**505-60-2**	0.0035	**0.010**	**0.020**	**0.32**	ppm		**Final AEGL-1, -2, -3**
334	Bis(2-chloroethylthio)ethane, 1,2-; (Sesquimustard)	3563-36-8	0.06	0.15	1.25	6	mg/m^3		
335	Bis(2-chloroethylthio)methane	63869-13-6	0.05	0.15	1	5	mg/m^3		Not found in databases.
336	Bis(2-chloroethylthio)-n-butane, 1,4-	142868-93-7	0.06	0.2	1.25	6	mg/m^3		Not found in databases.
337	Bis(2-chloroethylthio)-n-pentane, 1,5-	142868-94-8	0.075	0.2	1.5	7.5	mg/m^3		Not found in databases.
338	Bis(2-chloroethylthio)-n-propane, 1,3-	63905-10-2	0.06	0.15	1.25	6	mg/m^3		Not found in databases.

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
339	Bis(2-chloroethylthiomethyl)ether	63918-90-1	0.06	0.15	1.25	6	mg/m^3		Not found in databases.
340	Bis(2-ethoxyethyl) ether; (Diethyl carbitol)	112-36-7	75	250	500	500	mg/m^3		
341	Bis(2-ethylhexyl) hydrogen phosphate	298-07-7	0.02	0.06	0.4	2	mg/m^3		
342	Bis(2-ethylhexyl) phenyl phosphate	16368-97-1	0.075	0.2	1.5	7.5	mg/m^3		No pchem data found, 17W mammal TClo ignored.
343	Bis(2-hydroxyethyl)dodecanamide, N,N-	120-40-1	0.004	0.01	0.075	100	ppm		
344	Bis(2-methylstyryl)benzene, 4-; (1,4-Bis(2-(2-methylphenyl)ethenyl)benzene)	13280-61-0	10	30	50	250	mg/m^3		No useful data found.
345	Bis(3-tert-butyl-4-hydroxy-6-methylphenyl) sulfide; (4,4 Thiobis(6-tert-butyl-m-cresol))	96-69-5	15	30	300	500	mg/m^3		
346	Bis(chloromethyl)ketone; (1,3-Dichloroacetone)	534-07-6	0.125	0.4	2	2	mg/m^3		
347	Bis(chloromethyl)oxetane, 3,3-	78-71-7	0.4	1.25	2	75	mg/m^3		
348	Bis(Dimethylamino)acridine, 3,6-; (Acridine orange)	494-38-2	0.4	1.25	7.5	40	mg/m^3		
349	Bis(trifluoromethyl)benzene, 1,3-	402-31-3	4.7	14.1	23.5	470	mg/m^3		No toxicity data found.
350	Bis(tris(hydroxymethyl)methylamino)propane, 1,3-; (Bis-tris propane)	64431-96-5	10	30	50	250	mg/m^3		Not listed in databases. ChemFinder listed, MSDS pchem data.
351	Bis[(benzo-15-crown-5)-15-ylmethyl] pimelate	69271-98-3	10	30	50	250	mg/m^3		Not found in databases.
352	Bisbutenylenetetrahydrofurfural; (2,3,4,5-Bis(2-butylene)tetrahydro-2-furaldehyde)	126-15-8	10	30	200	500	mg/m^3		
353	Bismuth	7440-69-9	1.5	5	40	200	mg/m^3		
354	Bismuth acetate	22306-37-2	10	30	50	250	mg/m^3		HSDB, HC&P listed, no toxicity data, MSDS HHR =2.
355	Bismuth germanate	12233-73-7	1.5	5	40	200	mg/m^3		
356	Bismuth hydroxide	10361-43-0	1	1	3	100	mg/m^3		**SAR**
357	Bismuth hydroxide nitrate oxide; (White paint)	1304-85-4	7.5	20	150	500	mg/m^3		
358	Bismuth iodide	7787-64-6	1.5	5	35	150	mg/m^3		TSCA listed, ChemFinder pchem data. HHR = 3

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
359	Bismuth nitrate	10361-44-1	1.25	4	25	500	mg/m^3		
360	Bismuth oxide	1304-76-3	20	60	400	500	mg/m^3		
361	Bismuth oxychloride; (Bismuth chloride oxide)	7787-59-9	75	250	500	500	mg/m^3		
362	Bismuth(III) nitrate, pentahydrate	10035-06-0	2	6	40	500	mg/m^3		
363	Bisphenol A	80-05-7	5	15	100	500	mg/m^3		
364	Bisphenol A diglycidyl ether	1675-54-3	1.25	3.5	6	6	mg/m^3		
365	Bitoscanate; (1,4-Phenylenediisothiocyanic acid)	4044-65-9	4	12.5	20	20	mg/m^3		
366	BoBCalix; (Calix[4]arene-bis(t-octylbenzo-crown-b)	z-0110	10	30	50	250	mg/m^3		Not found in databases. MF, MW from MSDS.
367	Borane methyl sulfide complex; (Methyl sulfide complex with borane (1:1))	13292-87-0	0.1	0.3	2	10	ppm		
368	Borane-tetrahydrofuran	14044-65-6	5	15	25	125	mg/m^3		No toxicity data, unstable.
369	Borate	14213-97-9	2	6	10	50	mg/m^3	**T-0, P-1, P-2, P-3**	
370	Boric acid	10043-35-3	2	6	100	125	mg/m^3		
371	Boric acid, tributyl ester; (Tri-n-butyl borate)	688-74-4	1	3	20	100	ppm		
372	Boron	7440-42-8	2.5	7.5	50	250	mg/m^3		Rat oral dose reproductive data not used.
373	Boron carbide	12069-32-8	40	125	500	500	mg/m^3	**T-0, P-1, P-2, P-3**	New toxicity data found.
374	Boron nitride	10043-11-5	400	500	500	500	mg/m^3		Rat LD > 50 g/kg
375	Boron oxide	1303-86-2	15	30	300	500	mg/m^3		
376	**Boron tribromide**	**10294-33-4**	0.1	**0.33**	**7.3**	**40**	ppm		**Interim AEGL-1, -2, -3**
377	Boron trichloride	10294-34-5	0.1	0.3	2.09	2.5	ppm		
378	**Boron trifluoride**	**7637-07-2**	0.75	**2.5**	**37**	**110**	mg/m^3		**Interim AEGL-1, -2, -3** **ERPG-1, -2, -3**

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
379	Boron trifluoride etherate	109-63-7	9.34	25	150	500	mg/m^3		
380	**Boron trifluoride-dimethyl ether**	**353-42-4**	0.75	**2.5**	**37**	**110**	mg/m^3		**Interim AEGL-1, -2, -3** AEGLs for boron trifluoride (7637-07-2) added.
381	Botulinum toxin-A	93384-43-1	1.50E-09	4.00E-09	3.00E-08	3.00E-05	mg/m^3		Added. Dose 2.8 units/kg, assume unit = 1 ng.
382	Botulinum toxin-B	93384-44-2	4.00E-06	1.25E-05	1.50E-05	1.50E-05	mg/m^3	**T-0**	Added. TDlo is 171 units/kg, assume unit = 1 ng.
383	Botulinum toxin-F	z-0118	7.50E-08	2.00E-07	1.50E-06	1.00E-05	mg/m^3		Added.
384	Botulinum, clostridium	z-0119	6.00E-09	1.50E-08	1.25E-07	6.00E-07	mg/m^3		Added.
385	Brij-35; (alpha-Dodecyl-omega-hydroxypolyoxy-ethylene)	9002-92-0	0.15	0.5	3.5	400	mg/m^3		
386	Brilliant blue; (Acid blue 9)	2650-18-2	0.06	0.06	0.06	0.06	mg/m^3		T-0, T-1, T-2 > T-3
387	Bromadiolone	28772-56-7	0.2	0.6	1	1	mg/m^3		
388	**Bromine**	**7726-95-6**	0.033	**0.033**	**0.24**	**8.5**	ppm		**Interim AEGL-1, -2, -3**
389	**Bromine chloride**	**13863-41-7**	0.15	**0.5**	**2.5**	**7.6**	ppm		**Interim AEGL-1, -2, -3**
390	**Bromine pentafluoride**	**7789-30-2**	0.1	0.15	**1.0**	**33**	ppm		**Interim AEGL-2, -3**
391	**Bromine trifluoride**	**7787-71-5**	0.04	**0.12**	**2.0**	**21**	ppm		**Interim AEGL-1, -2, -3** Units changed.
392	Bromo acetic acid, methyl ester	96-32-2	0.25	0.75	5	25	mg/m^3		Pchem data differs in SAX, HC&P, ChemFinder.
393	Bromo-1-chloro-5,5-dimethylhydantoin, 3-; (Bromo-1-chloro-5,5-dimethyl-2,4-imidazolidinedione, 3-)	126-06-7	2.5	7.5	50	250	mg/m^3		
394	Bromo-2-chloro-1,1,2-trifluoroethane, 1-; (1,1,2-Trifluoro-1-bromo-2-chloroethane)	354-06-3	50	150	1,000	5,000	ppm		Deleted Halon 1301, CASRN = 75-63-8, from synonyms.
395	Bromo-3-chloro-5,5-dimethylhydantoin, 1-; (1-Bromo-3-chloro-5,5-dimethyl-2,4-imidazoleidione)	16079-88-2	6	15	125	500	mg/m^3		
396	Bromo-3-methylbutane, 1-	107-82-4	4	12.5	75	400	ppm		
397	Bromoacetaldehyde diethyl acetal	2032-35-1	7.5	25	150	500	mg/m^3		TSCA listed. MSDS HHR = 2.
398	Bromoacetic acid	79-08-3	0.04	0.125	0.75	4	mg/m^3		Corrosive to skin and mucous membranes.

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Table 2: Protective Action Criteria (PAC) Rev 25
Based on applicable AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
399	Bromoacetone	598-31-2	0.075	0.2	1.5	7.5	ppm		
400	Bromoanisole, 3-; (1-Bromo-3-methoxybenzene)	2398-37-0	10	30	50	250	mg/m^3		No toxicity data, no HHR found.
401	Bromobenzene; (Phenyl bromide)	108-86-1	0.75	2.5	20	350	ppm		
402	Bromochlorobenzene, m-	108-37-2	10	30	50	250	mg/m^3		Listed in RTECS, no toxicity data.
403	Bromochlorobenzene, p-	106-39-8	10	30	50	250	mg/m^3		Listed in RTECS, no toxicity data.
404	Bromochloromethane	74-97-5	200	600	2,000	2,000	ppm	**P-2**	
405	Bromocresol green; (Phenol, 4,4'-(1,1-dioxido-3H-2,1-benzoxathiol-3-ylidene)bis[2,6-dibromo-3-methyl-])	76-60-8	1	3.5	25	500	mg/m^3	**T-0, P-1, P-2, P-3**	Toxicity data found.
406	Bromocresol purple; (Phenol, 4,4'-(1,1-dioxido-3H-2,1-benzoxathiol-3-ylidene)bis[2-bromo-6-methyl-])	115-40-2	1	3	20	500	mg/m^3	**T-0, P-1, P-2, P-3**	No toxicity data found. TEELs based on bromocresol green, 76-60-8.
407	Bromocyclohexanol, cis-2-	16536-57-5	0.04	0.125	0.75	40	ppm		**SAR**
408	Bromodecane, 1-	112-29-8	1.5	5	35	150	ppm		
409	Bromodichloromethane	75-27-4	1.5	4	30	150	mg/m^3		
410	Bromododecane, 1-	143-15-7	7.5	25	150	500	mg/m^3		TSCA listed, MSDS HHR = 2.
411	Bromoethane; (Ethyl bromide)	74-96-4	5	750	2,000	2,000	ppm		PEL-TWA ignored.
412	Bromoethanol, 2-; (Ethylene bromohydrin)	540-51-2	0.075	0.2	1.5	60	mg/m^3		
413	Bromoethylmagnesium	925-90-6	1.5	5	35	150	mg/m^3		TSCA listed, no toxicity data found, MSDS HHR = 3.
414	Bromofluorobenzene, 4-; (p-Fluorobromobenzene)	460-00-4	75	200	500	500	mg/m^3		
415	Bromoform; (Tribromomethane)	75-25-2	0.5	5	35	850	ppm	**P-1, P-2**	
416	Bromohexane; (n-Hexyl bromide)	111-25-1	40	125	750	4,000	ppm		
417	Bromomesitylene, 2-; (2-Bromo-1,3,5-trimethylbenzene)	576-83-0	10	30	50	250	mg/m^3		TSCA & HC&P listed. No toxicity data found.
418	Bromomethyl-1,3-dioxolane, 2-	4360-63-8	7.5	25	150	500	mg/m^3		TSCA listed, no toxicity data found, MSDS HHR.

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Table 2: Protective Action Criteria (PAC) Rev 25
Based on applicable AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
419	Bromonaphthalene	90-11-9	3.5	10	60	350	mg/m^3		
420	Bromonitromethane	563-70-2	0.75	2.5	15	75	mg/m^3		MSDS HHR = 2.
421	Bromooctane , 1-; (Octyl bromide)	111-83-1	2.5	7.5	50	250	ppm		
422	Bromophenol blue; (Phenol, 4,4'-(3H-2,1-benzoxathiol-3-ylidene)bis(2-6-dibromo-,S,S-dioxide))	115-39-9	10	30	50	250	mg/m^3		RTECS, TSCA, HC&P listed, no toxicity data found.
423	Bromophenyl phenyl ether, 4-	101-55-3	2	6	40	200	mg/m^3		
424	Bromopropane, 1-	106-94-5	10	30	2,500	2,500	ppm		New toxicity data found.
425	Bromopropane, 2-	75-26-3	600	1,500	12,500	25,000	ppm		
426	Bromopyrene, 3-	1714-29-0	10	30	50	250	mg/m^3		Not found in databases, assumed solid or non-volatile liquid.
427	Bromosuccinimide, N-	128-08-5	2	6	40	200	mg/m^3		
428	Bromothymol blue; (Dibromothymolsulfonphthalein)	76-59-5	10	30	50	250	mg/m^3		RTECS, TSCA, HC&P listed, no toxicity data.
429	Bromotoluene, A-; (Benzyl bromide)	100-39-0	0.6	1.5	12.5	60	mg/m^3		
430	Bromotrichloromethane	75-62-7	0.06	0.15	1.25	6	ppm		
431	Bromotrifluoroethylene	598-73-2	1.07	3.22	107	107	ppm	**T-0, P-1, P-2, P-3**	
432	Bromotrifluoromethane; (Trifluorobromomethane)	75-63-8	1,000	3,500	25,000	40,000	ppm		
433	Bromotrimethylsilane; (Trimethylsilyl bromide)	2857-97-8	1.5	5	35	150	mg/m^3		TSCA listed, no toxicity data found, MSDS HHR = 3.
434	Brown menhaden fish oil	68440-42-6	10	30	50	250	mg/m^3		TSCA listed, no toxicity or pchem data found.
435	Brucine; (2,3-Dimethoxystrychnine)	357-57-3	0.6	1.5	12.5	40	mg/m^3		
436	Buffer solution, aequeous	7732-18-5	500	500	500	500	mg/m^3		
437	**Butadiene, 1,3-**	**106-99-0**	1	**670**	***5300***	***22000***	ppm		**Interim AEGL-1, -2, -3** See LEL formatting note.
438	Butanaminium,N,N,N-tributyl bromide, 1-; (Tetrabutylammonium bromide)	1643-19-2	10	30	50	250	mg/m^3		TSCA listed, no toxicity data found.

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Based on applicable AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
439	**Butane**	**106-97-8**	1,000	***5500***	***17000***	***53000***	ppm		**Interim AEGL-1, -2, -3** See LEL formatting note.
440	Butanedioic acid, diethyl ester; (Succinic acid, diethyl ester)	123-25-1	5	15	100	500	ppm		
441	Butanedioic acid, dimethyl ester; (Succinic acid, dimethyl ester)	106-65-0	3.5	10	75	350	ppm		
442	Butanediol dinitrate, 1,4-	3457-91-8	0.05	0.125	0.4	3	ppm		**SAR**
443	Butanediol, 1,3-	107-88-0	25	75	500	500	mg/m^3		
444	Butanediol, 1,4-; (1,4-Tetramethylene glycol)	110-63-4	1.25	3.5	25	250	mg/m^3		
445	Butanedione, 2,3-	431-03-8	20	60	400	400	mg/m^3		
446	Butanenitrile; (Butyronitrile)	109-74-0	8	24	40	50	ppm		
447	Butanephosphonic acid	3321-64-0	0.02	0.06	0.4	2	mg/m^3		**SAR**
448	Butanethiol; (n-Butyl mercaptan)	109-79-5	0.5	7.5	50	500	ppm		
449	Butanoic acid, butyl ester; (n-Butyl n-butanoate)	109-21-7	1.5	5	35	150	ppm		
450	Butanol, aluminum salt, 2-	2269-22-9	18.3	54.8	91.3	400	mg/m^3		TSCA, HC&P listed, no toxicity data.
451	Butanol-d10, n-	34193-38-9	20	20	50	***1,400***	ppm	**T-0, P-1, P-2, P-3**	
452	Butanone oxime; (Ethyl methyl ketoxime)	96-29-7	10	40	100	100	ppm		
453	**Butanone, 2-; (Methyl ethyl ketone; MEK)**	**78-93-3**	200	**200**	***2700***	***4000***	ppm		**Interim AEGL-1, -2, -3** See LEL formatting note.
454	Butene, 1-; (Butylene)	106-98-9	250	750	***50,000***	***75,000***	ppm		HSDB toxicity data used, See LEL formatting note.
455	Butene, 2-	107-01-7	250	750	1,250	***60,000***	ppm		New TLV-TWA, RTECS data used, See LEL formatting note.
456	Butene, cis-2-; (cis-1,2-Dimethylethylene)	590-18-1	250	***65,000***	***2.30E+05***	***4.00E+05***	ppm		New TLV-TWA, Simple asphyxiant. See LEL formatting note.
457	Butene, trans-2-; (trans-1,2-Dimethylethylene)	624-64-6	250	750	***40,000***	***75,000***	ppm		HSDB toxicity data used, See LEL formatting note.
458	Butoxyethanol acetate, 2-; (Ethylene glycol monobutyl ether acetate)	112-07-2	20	60	100	150	ppm		

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No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
459	Butoxyethanol phosphate, 2-	78-51-3	7.5	20	150	500	mg/m^3		
460	Butoxyethanol, 2-; (Glycol ether EB)	111-76-2	50	50	100	700	ppm		
461	Butoxyethoxy)ethanol, 2-(2-; (Diethylene glycol monobutyl ether)	112-34-5	10	15	100	350	ppm	**T-0, P-1, P-2, P-3**	Units changed, MAK-TWA corrected.
462	Butoxyethoxy)ethyl thiocyanate, 2-(2-	112-56-1	0.35	1	7.5	40	mg/m^3		
463	Butoxypolypropylene glycol	9003-13-8	35	100	500	500	mg/m^3		RTECS has six entries for this CASRN.
464	**Butyl acetate, n-**	**123-86-4**	5	**5**	**200**	***3000***	ppm		**ERPG-1, -2, -3** See LEL formatting note.
465	Butyl acetate, sec-	105-46-4	200	200	350	***1,700***	ppm		See LEL formatting note.
466	Butyl acetate, tert-	540-88-5	200	600	1,000	***1,500***	ppm		See LEL formatting note.
467	Butyl acetoacetate, tert-	1694-31-1	20	60	400	500	mg/m^3		TSCA listed, no toxicity data found. MSDS rat oral LD50 > 5 g/kg.
468	**Butyl acrylate, n-**	**141-32-2**	2	**8.3**	**130**	**480**	ppm		**Interim AEGL-1, -2, -3**
469	Butyl alcohol, n-; (n-Butanol)	71-36-3	20	20	50	***1,400***	ppm	**T-0, P-1**	See LEL formatting note. PEL-TWA suppressed.
470	Butyl alcohol, sec-; (2-Butanol)	78-92-2	100	150	400	***2,000***	ppm	**P-2**	See LEL formatting note.
471	Butyl bis(2-ethylhexyl)phosphate	z-0002	0.2	0.6	0.75	0.75	ppm		**SAR**
472	Butyl bromide, n-; (1-Bromobutane)	109-65-9	15	50	350	1,500	ppm		
473	**Butyl chloroformate, n-**	**592-34-7**	0.2	0.3	**2.2**	**6.7**	ppm		**Interim AEGL-2, -3**
474	**Butyl chloroformate, sec-**	**17462-58-7**	0.1	0.3	**2.2**	**6.7**	ppm		**Interim AEGL-2, -3**
475	Butyl ether, n-; (Dibutyl ether)	142-96-1	1	3	20	400	ppm		
476	Butyl glycidyl ether, n-	2426-08-6	3	3	5.6	250	ppm		PEL-TWA ignored.
477	**Butyl isocyanate, n-**	**111-36-4**	0.0035	**0.01**	**0.05**	**1**	ppm		**ERPG-1, -2, -3**
478	Butyl isocyanate, tert-	1609-86-5	0.25	0.75	5	25	mg/m^3		TSCA listed, MSDS toxicity data.

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
479	Butyl levulinate	2052-15-5	20	60	400	500	mg/m^3		Rat LD50 > 5 g/m^3.
480	Butyl lithium	109-72-8	36.9	115	500	500	mg/m^3	**T-0, P-1, P-2, P-3**	No toxicity data, used MW-adjusted Li PAC.
481	Butyl methyl-d3 ether, tert-	29366-08-3	50	50	570	6,300	ppm	**P-1, P-2, P-3**	Listed in ChemFinder, no pchem or toxicity data found, used Tert-butyl methyl ether 1634-04-4 data.
482	Butyl perbenzoate, tert-	614-45-9	7.5	25	150	400	mg/m^3		Rat and mouse 240 min LC > 57 mg/m^3.
483	Butyl propanoate; (Propanoic acid, butyl ester)	590-01-2	100	300	500	500	mg/m^3	**T-0, P-1**	Selected lowest of 10 day exposure TClo results.
484	Butyl-2-methylcyclopropane, T-1-	38851-70-6	10	30	50	250	mg/m^3		Not found in any databases, ExPub listed CASRN.
485	Butyl-3-iodo-2-propynylcarbamate	55406-53-6	4	12.5	100	500	mg/m^3	**T-0, P-1, P-2, P-3**	HSDB toxicity data.
486	Butylamine, (S)-sec-	513-49-5	0.5	1.5	10	50	ppm		
487	Butylamine, n-	109-73-9	2	2	5	300	ppm	**T-0, P-1, P-2**	MAK-TWA corrected, new toxicity data added.
488	Butylamine, sec-	13952-84-6	2	2	10	20	ppm	**T-0, P-1**	
489	Butylamine, tert-	75-64-9	0.35	1	7.5	125	ppm	**T-0, P-1, P-2**	
490	Butylbenzene, n-; (1-Phenylbutane)	104-51-8	12.5	40	250	***1,250***	ppm	**T-0, P-1, P-2, P-3**	See LEL formatting note.
491	Butylbenzene, sec-; (2-Phenylbutane)	135-98-8	0.035	0.1	0.6	150	ppm	**T-0, P-1, P-2**	
492	Butylbenzene, tert-	98-06-6	0.035	0.1	0.75	250	ppm	**T-0, P-1, P-2, P-3**	
493	Butylcyclohexane; (1-Cyclohexylbutane)	1678-93-9	1.5	5	40	200	ppm		
494	Butylcyclohexanone, p-tert-	98-53-3	20	60	400	500	mg/m^3		
495	Butylene carbonate; (1,2-Butanediol, cyclic carbonate)	4437-85-8	20	60	400	500	mg/m^3		Rat LD50 > 5 g/kg. No pchem data found.
496	Butyllithium, sec-	598-30-1	0.4	1.25	7.5	40	ppm		TSCA listed, no toxicity data found. MSDS HHR - 3.
497	Butylpyrocatechol, 4-tert-; (4-tert-Butylcatechol)	98-29-3	0.1	0.3	2	500	mg/m^3		2009 OEV Guide and 2009 ERPG and WEEL booklet WEEL data conflict. WEEL should be ceiling.
498	**Butyltrichlorosilane**	**7521-80-4**	0.2	**0.60**	**7.3**	**33**	ppm		**Interim AEGL-1, -2, -3** added.

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
499	Butyne-1,4-diol, 2-; (1,4-Butynediol)	110-65-6	0.2	0.6	20	30	mg/m^3	**T-0, P-1**	
500	Butyraldehyde	123-72-8	0.02	0.06	0.4	12.5	ppm		WEEL-TWA = 25 ppm not used.
501	Butyric acid	107-92-6	15	40	250	250	ppm		
502	Butyric acid, sodium salt	156-54-7	50	150	500	500	mg/m^3		Dog iv data ex HSDB.
503	**BZ; (3-Quinuclidinyl benzilate)**	**6581-06-2**	0.006	0.02	**0.033**	**0.62**	mg/m^3		**Interim AEGL-2, -3** added.
504	C.I. pigment red 53:1; (5-Chloro-2-((2-hydroxy-1-naphthyl)azo)-p-toluene sulfonic acid, barium salt)	5160-02-1	12.5	35	250	500	mg/m^3		MSDS not found.
505	C-18 Unsaturated fatty acid, dimers, reaction products with polyethylenepolyamines; (Versamid 140 polyamide resin; Versamid 125)	68410-23-1	10	30	50	250	mg/m^3		TSCA listed, no toxicity data.
506	Cacodylic acid; (Arsenic acid, dimethylhydroxy-)	75-60-5	0.5	1.5	4	250	mg/m^3	**P-2, P-3**	Toxicity data updated, IDLH deleted.
507	Cadmium	7440-43-9	0.005	0.03	1.25	9	mg/m^3		Name changed.
508	Cadmium bromide	7789-42-6	0.0121	0.0727	7.5	21.8	mg/m^3	**P-2**	
509	Cadmium carbonate	513-78-0	0.00767	0.046	0.0767	13.8	mg/m^3	**P-2**	
510	Cadmium chloride	10108-64-2	0.00815	0.0489	0.5	14.7	mg/m^3		
511	Cadmium chloride hemipentahydrate; (Cadmium chloride, 2.5-hydrate)	7790-78-5	0.0102	0.0609	5	18.3	mg/m^3	**T-0, P-1, P-3**	
512	Cadmium fluoride	7790-79-6	0.00669	0.0401	0.0669	12	mg/m^3	**P-2**	
513	Cadmium hydroxide	21041-95-2	0.00651	0.0391	0.0651	11.7	mg/m^3	**P-2**	
514	Cadmium nitrate	10325-94-7	0.0105	0.0631	0.105	18.9	mg/m^3	**P-2**	
515	Cadmium nitrate tetrahydrate	10022-68-1	0.0137	0.6	5	24.7	mg/m^3	**P-2**	
516	Cadmium nitrite	7790-83-2	0.00909	0.0546	0.0909	16.4	mg/m^3	**P-2**	
517	Cadmium oxide	1306-19-0	0.00571	0.0343	4	10.3	mg/m^3		
518	Cadmium stearate; (Octadecanoic acid, cadmium salt)	2223-93-0	0.0303	0.182	13	54.6	mg/m^3		

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
519	Cadmium sulfate	10124-36-4	0.00927	0.0556	0.0927	16.7	mg/m^3	**P-2**	
520	Cadmium sulfate, hydrate	7790-84-3	0.0157	0.0941	0.3	28.2	mg/m^3		MF, MW differ in HSDB, HC&P, ChemFinder from SAX and RTECS.
521	Cadmium sulfide	1306-23-6	0.00643	0.0386	11.6	11.6	mg/m^3		
522	Cadmium tungstate	7790-85-4	0.016	0.0961	0.16	28.8	mg/m^3	**P-2**	
523	Cadmium(II) acetate	543-90-8	0.0103	0.062	0.15	18.6	mg/m^3	**T-0, P-1, P-2, P-3**	
524	Calcium	7440-70-2	10	30	50	250	mg/m^3		No toxicity data found.
525	Calcium acetate	62-54-4	0.02	0.06	0.4	30	mg/m^3		
526	Calcium arsenate	7778-44-1	0.0266	1.5	10	13.3	mg/m^3		
527	Calcium carbide	75-20-7	10	30	50	250	mg/m^3		
528	Calcium carbonate; (Dolomite; Limestone)	1317-65-3	15	15	60	300	mg/m^3		
529	Calcium chloride	10043-52-4	1	3.5	20	400	mg/m^3	**T-0, P-1, P-2**	
530	Calcium chloride dihydrate	10035-04-8	40	125	500	500	mg/m^3		
531	Calcium chloride hexahydrate	7774-34-7	5	15	100	500	mg/m^3		
532	Calcium chloride hydrate	22691-02-7	2	6	40	450	mg/m^3	**T-0, P-1, P-2, P-3**	Not found in databases.
533	Calcium chromate	13765-19-0	0.015	0.0901	1.25	45	mg/m^3		Conc. Limits, as Cr(VI).
534	Calcium cyanamide	156-62-7	0.5	1.5	125	500	mg/m^3		
535	Calcium fluoride	7789-75-5	5.14	15.4	200	500	mg/m^3		Conc. Limits as Fluorides.
536	Calcium formate	544-17-2	10	30	200	500	mg/m^3		
537	Calcium hydride	7789-78-8	1.5	5	35	150	mg/m^3		LD50 estimated from HHR.
538	Calcium hydroxide	1305-62-0	15	75	500	500	mg/m^3	**P-1**	

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Table 2: Protective Action Criteria (PAC) Rev 25
Based on applicable AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
539	Calcium hypochlorite; (Calcium oxychloride)	7778-54-3	3.5	10	75	350	mg/m^3		
540	Calcium metasilicate	10101-39-0	10	30	50	250	mg/m^3		MF, MW differ in databases. No toxicity or pchem data found. No MSDS, assumed solid.
541	Calcium monohydrogen phosphate dihydrate	7789-77-7	10	30	50	250	mg/m^3		No toxicity data found.
542	Calcium nitrite	13780-06-8	0.03	0.075	0.6	50	mg/m^3		Listed as "Nitrous acid, calcium salt," MF = Ca.2(HNO2), MW = 134.10 SAR.
543	Calcium oxalate	563-72-4	6	15	50	50	mg/m^3		Listed as "Ethanedioic acid, calcium salt," MF = C2H2O4.Ca, MW = 130.11 SAR.
544	Calcium oxalate, hydrate	5794-28-5	6	15	60	60	mg/m^3	**T-0, P-1, P-2, P-3**	In ChemFinder, no toxicity data.
545	Calcium oxide	1305-78-8	5	5	5	25	mg/m^3		
546	Calcium phosphate tribasic	12167-74-7	10	30	50	250	mg/m^3		No toxicity or pchem data found. MSDS MP, SG.
547	Calcium phosphate; (Tricalcium phosphate)	10103-46-5	7.5	20	35	350	mg/m^3		**SAR**
548	**Calcium phosphide**	**1305-99-3**	0.05	0.15	**1.0**	**1.8**	ppm		**Final AEGL-2, -3** added.
549	Calcium sulfate anhydrous; (Drierite; Gypsum; Plaster of Paris)	7778-18-9	15	30	50	250	mg/m^3		MF and MW in HSDB not compatible.
550	Calcium trifluoromethanesulfonate	55120-75-7	7.42	20	150	500	mg/m^3	Added.	Added. MSDS gives NFPA HHR = 3. Treated as fluorides.
551	Calcium(II) nitrate	10124-37-5	1.25	3.5	25	125	mg/m^3		
552	Calcium(II) nitrate tetrahydrate (1:2:4)	13477-34-4	15	50	350	500	mg/m^3		
553	Calcium(II) sulfate dihydrate (1:1:2)	10101-41-4	15	30	50	75	mg/m^3		Long-term human TClo ignored.
554	Camphor	76-22-2	2	19	30	200	mg/m^3	**P-2**	
555	Camphorsulfonic acid, (1R)-(-)-10-	35963-20-3	4	12.5	75	400	mg/m^3		Not found in databases, used Reychler's acid, 3144-16-9, same MF and MW.
556	Cantharidin	56-25-7	0.75	2.5	4.3	4.3	mg/m^3		
557	Caprolactam (dust)	105-60-2	1	3	3	20	mg/m^3		
558	Caprolactone; (epsilon-Lactone hexanoic acid)	502-44-3	15	50	350	500	mg/m^3		

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
559	Caprylyl chloride; (Octanoyl chloride)	111-64-8	10	30	50	250	mg/m^3		No toxicity data found, "Y" concentration dependence ignored.
560	CAPSO	73463-39-5	10	30	50	250	mg/m^3		Not found in databases, MSDS pchem data.
561	Captan	133-06-2	5	15	30	500	mg/m^3		
562	Carbachol Chloride	51-83-2	3	7.5	15	15	mg/m^3		
563	Carbamic acid, methyl-, O-(((2,4-dimethyl-1,3-dithiolan-2-yl)methylene)amino)-	26419-73-8	0.2	0.6	1	1	mg/m^3		SAX has "2,4-Dimethyl-1,3-dithiolane-2-carboxaldehyde o-(methylcarbamoyl)oxime."
564	Carbanolate; (Aldicarb; Methyl-2-(methylthio)propionaldehyde-o-(methylcarbamoyl)oxime, 2-)	116-06-3	1.00E-04	3.00E-04	0.3	100	mg/m^3	**T-0, P-1**	See also "Carbanolate CASRN = 471-04-5 in RTECS, HSDB, MF = C10.H12,Cl.N.O2, MW = 213.68."
565	Carbaryl	63-25-2	5	5	15	100	mg/m^3		
566	Carbazole	86-74-8	0.75	2.5	15	75	mg/m^3		
567	Carbazole violet	6358-30-1	75	250	500	500	mg/m^3		TSCA listed, no toxicity or pchem data found. MSDS solid, HHR = 1.
568	Carbethoxyethylidine(triphenylphosphorane)	5717-37-3	10	30	50	250	mg/m^3		No toxicity data found.
569	Carbofuran	1563-66-2	0.1	0.3	0.43	0.5	mg/m^3		
570	Carbon black	1333-86-4	3.5	10.5	17.5	500	mg/m^3		
571	Carbon dioxide	124-38-9	5,000	30,000	30,000	40,000	ppm		
572	**Carbon disulfide**	**75-15-0**	1	**13.0**	**160**	**480**	ppm	**T-0**	**Final AEGL-1, -2, -3** PEL-TWA suppressed.
573	**Carbon monoxide**	**630-08-0**	50	83	**83**	**330**	ppm		**Interim AEGL-2, AEGL-3**
574	**Carbon tetrachloride**	**56-23-5**	10	**44**	**190**	**520**	ppm		**Interim AEGL-1, -2, -3**
575	Carbon tetrafluoride; (Tetrafluoromethane)	75-73-0	200	600	5,000	25,000	ppm		
576	Carbon trifluoride; (Trifluoromethane; Fluoroform)	75-46-7	1,000	3,000	20,000	1.00E+05	ppm		No toxicity data, TClo based on HSDB HTOX profile.
577	Carbon; (Graphite, synthetic)	7440-44-0	2	6	10	500	mg/m^3		(Graphite, synthetic) is synonym, CASRN = 7782-42-5, Graphite, natural.
578	Carbonic acid, calcium salt	471-34-1	15	75	500	500	mg/m^3	**P-1**	

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No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
579	**Carbonyl fluoride**	**353-50-4**	0.28	0.28	**0.28**	**0.83**	ppm		**Interim AEGL-2, -3**
580	**Carbonyl sulfide**	**463-58-1**	10	30	**55**	**150**	ppm		**Interim AEGL-2, -3**
581	Carbonyldiphthalic anhydride, 4,4'-	2421-28-5	10	30	50	250	mg/m^3		TSCA listed, no toxicity data.
582	Carbophenothion; (Trithion)	786-19-6	1.25	4	6.8	6.8	mg/m^3		
583	Carboxymethyl cellulose	9000-11-7	40	125	500	500	mg/m^3		RTECS rat oral LD > 5 mg/kg, MW given is for x = 1.
584	Carboxymethyl sepharose; (CM sepharose)	68894-07-5	7.5	25	150	500	mg/m^3		Not found in databases. HHR = 2 in MSDS.
585	Casamino acids	z-0008	10	30	50	250	mg/m^3		Not found in databases; two hits in HSDB refer to use as a nitrogen source. CASRN changed.
586	Casein; (Casamino acids; Casein hydrolysate type 1)	9000-71-9	10	30	50	250	mg/m^3		TSCA & Merck listed, no toxicity data. H&N gives "milk protein."
587	Castor oil	8001-79-4	40	125	500	500	mg/m^3		
588	Catechol	120-80-9	5	5	7.5	20	ppm		Changed "N" to "Y."
589	Cation exchange resin 200-400 mesh Hyd. Dowex 50W-X8	11119-67-8	10	30	50	250	mg/m^3		Not found in databases.
590	Cation exchange resin 50W-X12, 200 - 400 mesh	9056-03-5	10	30	50	250	mg/m^3		Not found in databases.
591	Cellulase	9012-54-8	12.5	40	300	500	mg/m^3	Added.	Added.
592	Cellulose	9004-34-6	15	30	500	500	mg/m^3		RTECS r LD50 & LC50 greater than values entered.
593	Cellulose acetate butanoate	9004-36-8	10	30	50	250	mg/m^3		TSCA, H&N listed, no toxicity data.
594	Cellulose, 2-(diethylamino)ethyl ether	9013-34-7	10	30	50	250	mg/m^3		TSCA listed, no toxicity data.
595	Ceric ammonium nitrate	16774-21-3	10	30	50	250	mg/m^3	**T-0, P-1, P-2, P-3**	
596	Ceric ammonium sulfate	7637-03-8	10	30	50	250	mg/m^3	**T-0, P-1, P-2, P-3**	
597	Ceric ammonium sulfate, dihydrate	10378-47-9	10	30	50	250	mg/m^3		Not found in databases. No MSDS. ChemFinder MP.
598	Ceric oxide	1306-38-3	6	20	150	500	mg/m^3		Rat oral LD50 > 5 g/kg.

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
599	Cerium	7440-45-1	10	30	50	250	mg/m^3		
600	Cerium acetate	537-00-8	0.1	0.35	2	10	mg/m^3		
601	Cerium chloride	7790-86-5	7.5	25	150	500	mg/m^3		
602	Cerium fluoride	7758-88-5	8.65	25.9	43.2	500	mg/m^3		CASRN changed from 15750-47-7 Rat oral LD50 > 5 g/kg.
603	Cerium hydroxide	15785-09-8	0.75	0.75	2	75	mg/m^3		**SAR**
604	Cerium nitrate hexahydrate	10294-41-4	15	50	350	500	mg/m^3		
605	Cerium oxalate	139-42-4	10	30	50	250	mg/m^3	**T-0, P-1, P-2, P-3**	No toxicity data found. CASRN changed from 15750-47-7.
606	Cerium sulfate	13590-82-4	1	3.5	20	100	mg/m^3		
607	Cerium trioxide	1345-13-7	2	6	40	200	mg/m^3		
608	Cerium(III) sulfate	13454-94-9	7.5	25	150	500	mg/m^3		TSCA listed, no toxicity data found. HHR = 2 in MSDS.
609	Cerium(IV) hydroxide	12014-56-1	14.9	44.6	75	350	mg/m^3		TSCA listed, no toxicity data, irritation, S, ex ChemFinder.
610	Cerium(iv) nitrate	13093-17-9	10	30	50	250	mg/m^3		Added. TSCA listed, no pchem or toxicity data found.
611	Cerous nitrate; (Cerium(III) nitrate)	10108-73-3	1	3	20	500	mg/m^3		
612	Cerous nitrite	z-0004	0.04	0.1	0.75	75	mg/m^3		**SAR**
613	Cesium	7440-46-2	6	20	150	500	mg/m^3		
614	Cesium carbonate	534-17-8	10	30	200	500	mg/m^3		
615	Cesium chloride	7647-17-8	0.4	1.25	10	500	mg/m^3		
616	Cesium fluoride	13400-13-0	20	60	100	500	mg/m^3		Fluoride concentration limits.
617	Cesium hydroxide	21351-79-1	2	2	7.5	250	mg/m^3		Human LC50 data not used, no exposure time given.
618	Cesium iodide	7789-17-5	10	30	200	500	mg/m^3		

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
619	Cesium nitrate	7789-18-6	10	30	200	500	mg/m^3		
620	Cesium nitrite	13454-83-6	0.075	0.2	1.5	60	mg/m^3		**SAR**
621	Cesium oxide	20281-00-9	2.24	6.72	11.2	500	mg/m^3		No toxicity data, but reacts with water to form Cs.O.H .
622	Charcoal, activated	64365-11-3	10	30	50	250	mg/m^3		
623	Chloramben; (3-Amino-2,5-dichlorobenzoic acid)	133-90-4	35	100	500	500	mg/m^3		
624	Chloramphenicol	56-75-7	0.5	1.5	7.5	350	mg/m^3		
625	Chlordane	57-74-9	0.5	1.5	50	100	mg/m^3		
626	Chlorfenvinfos	470-90-6	2	6	10	10	mg/m^3		
627	Chloric acid, sodium salt; (Sodium chlorate)	7775-09-9	0.15	0.4	3	75	mg/m^3		
628	Chloride	16887-00-6	0.5	1	2.52	10	ppm	**P-2**	Listed in ChemFinder. Chlorine limits used, but NOT AEGLs or ERPGs.
629	Chlorinated polyolefins	68410-99-1	10	30	50	250	mg/m^3		
630	**Chlorine**	**7782-50-5**	0.5	**0.50**	**2.0**	**20**	ppm		**Final AEGL-1, -2, -3**
631	**Chlorine dioxide**	**10049-04-4**	0.1	**0.15**	**1.1**	**2.4**	ppm		**Final AEGL-1, -2, -3**
632	Chlorine Hi dry granular (as Cl)	z-0006	0.5	1	2.52	10	ppm	**P-2, P-3**	Used chlorine limits, but NOT AEGLs or ERPGs.
633	**Chlorine pentafluoride**	**13637-63-3**	0.1	**0.30**	**1.0**	**8.0**	ppm		**Interim AEGL-1, -2, -3**
634	**Chlorine trifluoride**	**7790-91-2**	0.04	**0.12**	**2.0**	**21**	ppm		**Final AEGL-1,-2, -3**
635	Chlormephos	24934-91-6	1.25	4	7	35	mg/m^3		
636	Chlormequat Chloride; (Choline dichloride)	999-81-5	0.35	1	7	7.5	mg/m^3		
637	**Chloro-1,1,1,2-tetrafluoroethane, 2-**	**2837-89-0**	1,000	**1000**	**5000**	**10000**	ppm		**ERPG-1, -2, -3** added.
638	**Chloro-1,1-difluoroethane, 1-; (HCFC-142b)**	**75-68-3**	1,000	***10000***	***15000***	***25000***	ppm		**ERPG-1, -2, -3** See LEL formatting note.

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
639	Chloro-1,2-propanediol, 3-; (Chlorohydrin)	96-24-2	0.02	0.06	0.5	12.5	ppm		
640	Chloro-1-butanol, 4-	928-51-8	1.5	5	40	400	mg/m^3		
641	Chloro-2,4-dinitrobenzene, 1-	97-00-7	3	10	60	350	mg/m^3		
642	Chloro-2-methyl-1-propene, 3-	563-47-3	0.75	2.5	15	75	ppm		
643	Chloro-2-methyl-4-isothiazolin-3-one, 5-	26172-55-4	0.2	0.6	1	1	mg/m^3		Name changed. No pchem data found.
644	Chloro-2-methylpropane, 2-; (Tert-butyl chloride)	507-20-0	0.4	1	7.5	2,000	ppm		
645	Chloro-2-nitrophenol, 4-	89-64-5	0.4	1.25	7.5	40	mg/m^3		TSCA, HC&P listed, MSDS toxicity data.
646	Chloro-4-nitrophenol, 2-	619-08-9	0.5	1.5	10	50	ppm		Name changed.
647	**Chloroacetaldehyde**	**107-20-0**	0.4	**1.3**	**2.2**	**9.9**	ppm		**Interim AEGL-1, -2, -3**
648	Chloroacetaldehyde dimethyl acetal	97-97-2	7.5	25	150	500	mg/m^3		TSCA listed, no toxicity data. MSDS pchem data, assumed HHR = 2.
649	Chloroacetic acid, sodium salt	3926-62-3	2.38	7.14	40	40	mg/m^3		WEEL-TWA added.
650	**Chloroacetic acid; (Monochloroacetic acid)**	**79-11-8**	0.5	1.5	**6.6**	20	ppm		**Final AEGL-2**
651	**Chloroacetone**	**78-95-5**	0.2	0.6	**4.4**	**13**	ppm		**Interim AEGL-2, -3**
652	**Chloroacetonitrile**	**107-14-2**	1.5	4	**32**	**67**	ppm		**Interim AEGL-2, -3**
653	**Chloroacetyl chloride**	**79-04-9**	0.04	**0.040**	**1.6**	**52**	ppm		**Interim AEGL-1, -2, -3**
654	Chloroallyl)-3,5,7-triaza-1-azoniaadamantane chloride, 1-(3-	4080-31-3	1	3	20	200	mg/m^3		
655	Chloroaniline, p-	106-47-8	0.5	1.5	10	300	mg/m^3		
656	**Chlorobenzene; (Benzene chloride)**	**108-90-7**	10	**10**	**150**	**400**	ppm		**Interim AEGL-1, -2, -3**
657	Chlorobenzotrifluoride, 2-	88-16-4	6	20	125	500	mg/m^3		
658	Chlorobenzylate; (4,4'-Dichlorobenzilic acid ethyl ester)	510-15-6	1.5	4	30	300	mg/m^3	**T-0, P-1, P-2**	

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
659	**Chlorobenzylidene malononitrile, o-**	**2698-41-1**	0.005	**0.005**	**0.1**	**25**	mg/m^3		**ERPG-1, -2, -3.** T-3 corrected.
660	Chlorobutane, 1-; (Butyl chloride)	109-69-3	7.5	25	150	750	ppm		Ignored inconsistent Russian TDlo, used NTP TDlo data.
661	Chlorobutane, 2-; (sec-Butyl chloride)	78-86-4	0.4	1.25	7.5	3,500	ppm		
662	Chlorobutyryl chloride, 4-	4635-59-0	2.5	7.5	50	250	mg/m^3		
663	Chlorocyclohexanol, trans-2-	6628-80-4	3.5	10	75	400	mg/m^3		
664	Chlorocyclohexene; (4-Chlorocyclohexene)	930-65-4	20	60	500	***2,500***	ppm		**SAR.** See LEL formatting note.
665	Chlorodecane, 1-	1002-69-3	48.5	145	249	1,250	ppm		TSCA listed, no toxicity data.
666	Chlorodiethylaluminum; (Diethylaluminum chloride)	96-10-6	8.94	35	200	500	mg/m^3	**P-1**	SAX MW (110.56) incorrect.
667	Chlorodifluoromethane; (Freon 22; CFC 22)	75-45-6	1,000	1,250	7,500	7,500	ppm		
668	Chloroethanesulfonyl chloride, 2-	1622-32-8	1.25	3.5	25	150	mg/m^3		
669	Chloroethyl chloroformate	627-11-2	4	12.5	20	20	mg/m^3		
670	Chloroethyl vinyl ether, 2-; (Ethene, 2-chloroethoxy-)	110-75-8	0.25	0.75	5	25	ppm		
671	Chloroethylchloromethylsulfide, 2-	2625-76-5	0.0035	0.01	0.02	0.32	ppm		Not found in databases. Used AEGLs for structurally similar sulfur mustard, CASRN = 505-60-2.
672	**Chloroform**	**67-66-3**	2	2	**64**	**3200**	ppm		**AEGL-2, -3**
673	Chloroform-d; (Deuterated chloroform)	865-49-6	2	2	64	3,200	ppm	**P-2, P-3**	Not found in databases, has deuterium in place of H in chloroform, so used its limits.
674	Chloro-m-cresol, 4-	59-50-7	7.5	20	150	500	mg/m^3		
675	**Chloromethyl methyl ether**	**107-30-2**	0.075	0.25	**0.47**	**2.0**	ppm		**Interim AEGL-2, -3**
676	**Chloromethyl(trichloro)silane**	**1558-25-4**	0.2	**0.60**	**7.3**	**33**	ppm		**Interim AEGL-1, -2, -3**
677	Chloronaphthalene, 1-; (alpha-Chloronaphthalene)	90-13-1	6	20	125	500	mg/m^3		
678	Chloronaphthalene, 2-; (beta-Chloronaphthalene)	91-58-7	0.2	0.6	150	500	mg/m^3	**P-2**	

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Table 2: Protective Action Criteria (PAC) Rev 25
Based on applicable AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
679	Chloronitrobenzene, p- ; (p-Nitrochlorobenzene)	100-00-5	1	1.92	100	100	mg/m^3		
680	Chloroperoxybenzoic acid, 3-	937-14-4	0.3	1	6	35	mg/m^3		
681	Chlorophacinone	3691-35-8	0.2	0.6	1	1	mg/m^3		
682	Chlorophenol, 4-; (p-Chlorophenol)	106-48-9	250	400	400	400	mg/m^3		Severe irritant. Inconsistent rat LC50 not used.
683	Chlorophenol, m-	108-43-0	0.3	0.75	6	250	mg/m^3		
684	Chlorophenol, o-	95-57-8	1.5	5	35	350	ppm	**T-0, P-1, P-2, P-3**	
685	Chlorophenyl phenyl ether, 4-	7005-72-3	0.0025	0.0075	0.05	0.25	mg/m^3		
686	Chlorophenyl thiourea, 2-	5344-82-1	0.75	2.5	4.6	4.6	mg/m^3		
687	Chloropicrin/Methyl bromide mixture	8004-09-9	0.33	0.33	1	9.31	mg/m^3	**T-0, P-1, P-2, P-3**	0.15 to 0.85 mixture assumed, AEGL components.
688	Chloropicrin/Methyl chloride mixture	z-0007	0.17	0.17	0.5	4.66	mg/m^3	**T-0, P-1, P-2, P-3**	0.30 to 0.70 mixture assumed, AEGL components.
689	**Chloropicrin; (Trichloronitromethane)**	**76-06-2**	0.05	**0.050**	**0.15**	**1.4**	ppm		**Interim AEGL-1, -2, -3** **ERPG-1, -2, -3**
690	Chloroprene; (Neoprene)	126-99-8	1	1	1	300	ppm		
691	Chloropropanol, 3-; (1-Propanol, 3-chloro)	627-30-5	10	30	200	500	mg/m^3		
692	Chloropropionitrile, 3-	542-76-7	0.5	1.5	2.46	12.5	ppm		
693	Chloropropyl)trimethoxysilane, 3-(; (3-(Trimethoxysilyl)propyl chloride)	2530-87-2	10	30	200	350	ppm		
694	Chloropropylene, 2-	557-98-2	1,000	3,000	***20,000***	***35,000***	ppm		See LEL formatting note.
695	Chloropropyl-n-octylsulfoxide, 3-	3569-57-1	1.5	5	8	500	mg/m^3		
696	Chloro-p-toluenesulfonamide, sodium salt, n-; (Chloramine T)	127-65-1	0.075	0.25	2	250	mg/m^3		See also SFV550, dog TDlo added.
697	Chlorosarin; (o-Isopropyl methylphosphonochloridate)	1445-76-7	1.50E-04	5.00E-04	0.006	0.022	ppm		Not found in databases. Treated as Sarin, CASRN = 107-44-8.
698	Chlorosoman; (o-Pinacolyl methylphosphonochloridate)	7040-57-5	0.03	0.075	0.6	3	ppm		RTECS toxicity data, no pchem data found.

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Based on applicable AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
699	**Chlorosulfonic acid; (Chlorosulfuric acid)**	**7790-94-5**	0.1	**0.10**	**4.4**	**25**	mg/m^3		**Interim AEGL-1, -2, -3** **ERPG-1, -2, -3**
700	Chlorothalonil; (Tetrachloroisophthalonitrile)	1897-45-6	3	7.5	30	30	mg/m^3		Added.
701	Chlorotoluene, 2-; (o-Chlorotoluene)	95-49-8	50	75	400	400	ppm		
702	Chlorotoluene, 4-; (p-Tolyl chloride)	106-43-4	15	40	300	***750***	ppm	**T-0, P-1, P-2, P-3**	See LEL formatting note.
703	Chlorotrifluoroethene, homopolymer	9002-83-9	0.015	0.04	0.3	500	mg/m^3		Many synonyms, used first of multiple RTECS listings.
704	**Chlorotrifluoroethylene**	**79-38-9**	5	**16**	**86**	**420**	ppm		**Interim AEGL-1, -2, -3** **ERPG-1, -2, -3**
705	Chlorotrifluoromethane; (CFC-13)	75-72-9	1,000	3,000	5,000	25,000	ppm		
706	**Chlorovinylarsine dichloride; (Lewisite 1)**	**541-25-3**	0.12	0.12	**0.12**	**0.74**	mg/m^3		**Interim AEGL-2, -3**
707	Chloroxuron	1982-47-4	2	6	10	500	mg/m^3		
708	Chlorpyrifos; (Dursban)	2921-88-2	0.1	0.6	15	20	mg/m^3		
709	Chlorsulfuran	64902-72-3	0.125	0.35	2.5	500	mg/m^3		SAX r LC50 > 5900 mg/m^3.
710	Chlorthiophos	21923-23-9	0.35	1	7.8	7.8	mg/m^3		RTECS CASRN = 60238-56-4 data match SAX CASRN = 21923-23-9 for which RTECS data differs. ChemFinder lists both.
711	Chromates	13907-45-4	0.058	0.5	3.5	17.4	mg/m^3	**T-0, P-1, P-2, P-3**	Minimum values, depending upon compound.
712	Chromic acetate; (Chromium(III) acetate)	1066-30-4	2.2	6.61	11	110	mg/m^3		Cr III concentration limits.
713	Chromic acid ester	11115-74-5	0.059	0.059	0.118	17.7	mg/m^3	**T-0, P-1, P-2, P-3**	Cr2.O3 concentration limits.
714	Chromic chloride; (Chromium(III) chloride)	10025-73-7	1.52	4.57	10	76.1	mg/m^3	**P-2**	Cr III concentration limits.
715	Chromic oxide; (Chromium(III) oxide; Chromium sesquioxide)	1308-38-9	0.731	15	36.5	36.5	mg/m^3		Cr III concentration limits.
716	Chromic sulfate; (Chromium(III) sulfate (2:3))	10101-53-8	1.89	2.5	15	94.3	mg/m^3		Cr III concentration limits.
717	Chromic trioxide; (Chromium(VI) oxide (1:3))	1333-82-0	0.00962	0.00962	0.01	28.8	mg/m^3	**P-2**	Cr VI concentration limits.
718	Chromic(III) hydroxide; (Chromic acid (H3CrO3); Chromium trihydroxide)	1308-14-1	0.991	7.5	49.5	49.5	mg/m^3	**P-1, P-2**	Cr III concentration limits.

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Table 2: Protective Action Criteria (PAC) Rev 25
Based on applicable AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
719	Chromic(VI) acid	7738-94-5	0.113	0.113	0.227	34	mg/m^3	**T-0, P-1, P-2**	New OSHA PEL-TWA. Minimum values, depending upon compound.
720	Chromite; (Chromite (mineral))	1308-31-2	1.08	3.23	5.38	500	mg/m^3		Chromium(II) concentration limits.
721	Chromium	7440-47-3	1	1.5	2.5	250	mg/m^3		
722	Chromium nitrate	10103-47-6	4.74	14.2	23.7	237	mg/m^3		Cr(III) inorganic concentration limits.
723	Chromium nitrate nonahydrate	7789-02-8	3.85	11.5	25	192	mg/m^3	**P-2**	Cr(III) inorganic concentration limits.
724	Chromium perchlorate, hydrated	13537-21-8	3.37	10.1	16.8	168	mg/m^3		No toxicity or pchem data found. Cr(III) inorganic concentration limits.
725	Chromium(III) acetate hydroxide	39430-51-8	2.4	7.21	12.5	120	mg/m^3		TSCA listed. Chromium(III) acetate, CASRN =1066-30-4, MW = 229.13, MF = Cr.3(C2.H4.O2). LANL MW = 603.3.
726	Chromium(III) chloride, hexahydrate	10060-12-5	2.56	100	128	128	mg/m^3		Cr(III) inorganic concentration limits.
727	Chromium(III) fluoride	7788-97-8	1.05	3.14	5.24	52.4	mg/m^3		Cr(III) concentration limits.
728	Chromium(III) nitrate	13548-38-4	2.29	6.87	11.4	114	mg/m^3		Cr(III) concentration limits.
729	Chromium(III) oxide hydroxide; (Chromium oxyhydroxide)	20770-05-2	0.817	1	7.5	40.9	mg/m^3		Cr(III) concentration limits.
730	Chromium(III) potassium sulfate (1:1:2), dodecahydrate	7788-99-0	4.8	14.4	40	240	mg/m^3		Cr(III) concentration limits.
731	Chromium(VI) hydroxide	12626-43-6	0.0296	0.04	0.296	44.4	mg/m^3	**T-0, P-1, P-2, P-3**	Used Cr(VI) limits, not SAR.
732	Chromous chloride; (Chromium(II) chloride (1:2))	10049-05-5	1.18	3.55	7.5	500	mg/m^3	**P-2**	Cr(II) concentration limits.
733	Chrysene (coal tar volatile)	218-01-9	0.2	0.6	4	80	mg/m^3	**P-2**	
734	Cinnamaldehyde	104-55-2	1.25	4	30	500	mg/m^3		
735	Cinnamaldehyde, (E); (trans-Cinnamaldehyde)	14371-10-9	0.075	0.25	2	250	ppm		
736	Citric acid	77-92-9	6	15	125	500	mg/m^3	**T-0, P-1, P-2**	
737	Citric acid monohydrate	5949-29-1	1.5	4	30	150	mg/m^3		Guinea pig TClo not used.
738	Citric acid, trisodium salt, dihydrate	6132-04-3	6	20	125	500	mg/m^3		Used Trisodium citrate, CASRN = 68-04-2, SAX TNL000.

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Based on applicable AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
739	Coal tar pitch volatiles; (Particulate polycyclic aromatic hydrocarbons)	65996-93-2	0.2	0.6	30	80	mg/m^3	**P-2**	
740	Coal tar, aerosol	8007-45-2	0.4	1.25	7.5	500	mg/m^3	**T-0, P-3**	
741	Cobalt	7440-48-4	0.1	0.3	2	20	mg/m^3	**P-1, P-2**	
742	Cobalt acetate tetrahydrate; (Cobaltous acetate tetrahydrate)	6147-53-1	3	7.5	60	300	mg/m^3		
743	Cobalt carbonyl	10210-68-1	0.27	0.27	27	60	mg/m^3		
744	Cobalt chloride	7646-79-9	0.0441	0.132	25	500	mg/m^3		
745	**Cobalt hydrocarbonyl**	**16842-03-8**	0.0415	0.0415	**0.13**	**0.42**	ppm		**ERPG-2, -3**
746	Cobalt hydroxide	21041-93-0	0.0315	0.0946	0.158	0.75	mg/m^3		
747	Cobalt nitrate hexahydrate; (Cobaltous nitrate hexahydrate)	10026-22-9	0.0988	0.296	0.5	300	mg/m^3	**P-3**	
748	Cobalt nitrate; (Cobalt(II) nitrate)	10141-05-6	0.0621	0.186	1.5	150	mg/m^3	**P-2**	
749	Cobalt nitrite	32486-57-0	0.0512	0.154	0.256	1.25	mg/m^3		
750	Cobalt oxide	1308-06-1	0.136	0.136	0.136	27.2	mg/m^3	**P-3**	
751	Cobalt sulfate	10124-43-3	0.0526	0.158	6	150	mg/m^3	**P-2**	
752	Cobalt sulfate heptahydrate; (Cobalt(II) sulfate(1:1), heptahydrate)	10026-24-1	0.0954	0.286	250	250	mg/m^3		
753	Cobalt tetraphenylporphine	14172-90-8	10	30	50	250	mg/m^3		No toxicity data found.
754	Cobalt(II) chloride hexahydrate	7791-13-1	0.0808	0.242	20	350	mg/m^3	**P-3**	
755	Cobalt(II) oxide	1307-96-6	0.127	0.127	20	25.4	mg/m^3	**P-3**	See also CND020: Co3O4, CND825: Co2O3.
756	Cobalt(II) perchlorate, hexahydrate	13478-33-6	0.124	0.373	0.621	60	mg/m^3		No pchem data found.
757	Cobalt(II) sulfate hydrate	60459-08-7	0.0587	0.176	0.3	1.5	mg/m^3	**P-3**	Not found in databases. Cobalt and inorganic compounds, as Co.
758	Cobalt, ((2,2'-(1,2-ethanediylbis(nitrilomethylidyne))bis(6-fluorophenolato))(2-)-N,N',0,0')-; (Fluomine)	62207-76-5	0.15	0.4	3	15	mg/m^3		SAX name = "n,n'Ethylene bis(3-fluorosalicylideneiminato)cobalt(II)."

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No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
759	Cobaltous bromide; (Cobalt(II) bromide)	7789-43-7	0.0742	0.223	0.371	150	mg/m^3		
760	Cobaltous carbonate	513-79-1	0.0404	0.121	0.202	250	mg/m^3		
761	Colchicine	64-86-8	0.04	0.125	0.9	0.9	mg/m^3		
762	Copper	7440-50-8	1	3	5	100	mg/m^3	**P-1, P-2**	
763	Copper cyanide; (Copper(I) cyanide; Cuprous cyanide)	544-92-3	1.41	4.23	7.05	25	mg/m^3		
764	Copper hydroxide; (Copper(II) hydroxide, Cupric hydroxide)	20427-59-2	1.54	4.61	7.68	154	mg/m^3	**P-3**	
765	Copper nitrate; (Cupric nitrate)	3251-23-8	2.95	7.5	60	295	mg/m^3	**T-0, P-1**	
766	Copper oxide; (Copper(I) oxide)	1317-39-1	0.113	0.675	15	113	mg/m^3	**P-1**	
767	Copper sulfate; (Copper(II) sulfate)	7758-98-7	2.51	2.51	6	251	mg/m^3	**P-3**	
768	Copper(I) chloride; (Cuprous chloride)	7758-89-6	1.56	4.67	7.79	156	mg/m^3	**T-0, P-1, P-2, P-3**	
769	Copper(I) sulfide	22205-45-4	1.25	3.76	6.26	125	mg/m^3	**P-3**	
770	Copper(II) acetate monohydrate	6046-93-1	3.14	7.5	60	314	mg/m^3	**T-0**	
771	Copper(II) carbonate hydroxide (2:1:2)	12069-69-1	1.74	5.22	8.7	174	mg/m^3	**T-0, P-1, P-2**	
772	Copper(II) chloride (1:2); (Cupric chloride)	7447-39-4	2.12	6.35	10.6	212	mg/m^3	**T-0, P-1, P-2, P-3**	
773	Copper(II) chloride dihydrate; (Cupric chloride)	10125-13-0	2.68	8.05	13.4	268	mg/m^3	**T-0, P-1, P-2**	
774	Copper(II) oxalate	814-91-5	2.42	7.25	12.5	242	mg/m^3		
775	Copper(II) perchlorate, dihydrate	17031-32-2	4.7	14.1	23.5	470	mg/m^3	**P-3**	No pchem data found.
776	Copper(II) sulfate pentahydrate	7758-99-8	3.93	11.8	150	393	mg/m^3	**T-0, P-1, P-3.**	
777	Copper(II) sulfide	1317-40-4	1.5	4.51	7.52	150	mg/m^3		
778	Corn oil	8001-30-7	40	100	500	500	mg/m^3	**T-0, P-1**	Rat LD50 > 100 mL/kg.

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
779	Coumaphos	56-72-4	0.05	0.15	30	125	mg/m^3		
780	Coumarin	91-64-5	0.025	0.075	0.6	125	mg/m^3		
781	Coumatetralyl; (Endrocide)	5836-29-3	3	10	16.5	16.5	mg/m^3		
782	Creosote (coal tar)	8001-58-9	0.2	0.6	80	80	mg/m^3		
783	Cresols	1319-77-3	5	15	24.9	250	ppm		
784	Cresyl violet acetate	10510-54-0	10	30	50	250	mg/m^3		Listed in ExPub, no data.
785	Crimidine; (Castrix)	535-89-7	0.25	0.75	1.2	1.2	mg/m^3		
786	Cristobalite	14464-46-1	0.025	0.075	25	25	mg/m^3		
787	Crocidolite	12001-28-4	0.005	0.05	10	250	mg/m^3	**P-1, P-2**	
788	**Crotonaldehyde, cis-**	**4170-30-3**	0.19	**0.19**	**4.4**	**14**	ppm		**Final AEGL-1, -2, -3** CASRN should be 15798-64-8 (National Library of Medicine).
789	**Crotonaldehyde, trans-**	**123-73-9**	0.06	**0.19**	**4.4**	**14**	ppm		**Final AEGL-1, -2, -3**
790	Crotonic Acid	3724-65-0	4	12.5	75	400	mg/m^3		
791	Crystal violet; (Aniline violet)	548-62-9	0.075	0.25	1.5	150	mg/m^3		
792	Cs7SB; (1-(2,2,3,3-Tetrafluoropropoxy)-3-(4-sec-butylphenoxy)-2-propanol)	308362-88-1	11.1	30	200	500	mg/m^3		Not found in databases. MF, MW from MSDS.
793	Cube Resin other than Rotenone	z-0122	0.125	0.35	2.5	12.5	mg/m^3	Added.	Added, in ChemBank RTECS but not ExPub.
794	Cumene hydroperoxide; (Isopropylbenzene hydroperoxide)	80-15-9	1	5	20	20	ppm		Human TClo = 0.02 mg/m^3 ignored.
795	**Cumene; (Isopropyl benzene)**	**98-82-8**	50	**50**	**300**	**730**	ppm		**Interim AEGL-1, -2, -3**
796	Cumenol methylcarbamate, m-; (3-(1-Methylethyl)phenol methylcarbamate)	64-00-6	3	10	16	16	mg/m^3		
797	Cupferron; (Ammonium-n-nitrosophenylhydroxylamine)	135-20-6	7.5	25	75	75	mg/m^3		
798	Cupric acetate, anhydrous; (Copper acetate)	142-71-2	2.86	8.58	14.3	200	mg/m^3	**T-0, P-1, P-2**	

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Table 2: Protective Action Criteria (PAC) Rev 25
Based on applicable AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
799	Cupric nitrate hemipentahydrate	19004-19-4	3.8	11.4	19	380	mg/m^3		
800	Cupric nitrite	14984-71-5	0.035	0.075	0.6	60	mg/m^3	**T-0, P-1**	CASRN in TSCA, MF = Cu.2 H-N-O2. **SAR.**
801	Cupric oxide	1317-38-0	0.125	0.751	1.25	125	mg/m^3	**P-1, P-2**	
802	Cyanamide	420-04-2	2	6	10	35	mg/m^3	**P-2**	
803	Cyanic acid; (Hydrogen cyanate)	420-05-3	8.27	24.8	41.3	200	ppm	**T-0, P-1, P-2, P-3**	No toxicity data found, pchem data ex HC&P. Lewis' Toxicology states "strong irritant, lacrimator & vesicant," but "Y" suppressed.
804	Cyanide	57-12-5	5	5	5	25	mg/m^3		
805	Cyanoacetamide	107-91-5	6	20	150	500	mg/m^3		
806	Cyanogen	460-19-5	10	10	10	15	ppm		
807	Cyanogen bromide	506-68-3	20.4	44	44	44	mg/m^3		
808	**Cyanogen chloride**	**506-77-4**	0.02	0.06	**0.4**	**4**	ppm		**ERPG-2, -3**
809	Cyanogen iodide	506-78-5	29.4	88.2	180	180	mg/m^3	**T-0, P-1**	
810	Cyanoguanidene; (Guanidine, cyano; Dicyanidiamido)	461-58-5	0.5	1.5	10	200	mg/m^3		
811	Cyanophos	2636-26-2	1.25	3.5	25	25	mg/m^3		CN limits not used.
812	Cyanuric acid; (1,3,5-Triazine-2,4,6-triol)	108-80-5	10	10	25	500	mg/m^3		
813	Cyanuric fluoride; (2,4,6-Trifluoro-s-triazine)	675-14-9	0.17	0.17	0.17	43.3	mg/m^3	**P-3**	
814	Cyclohexane	110-82-7	300	300	***1,300***	***1,300***	ppm	**P-2**	See LEL formatting note.
815	Cyclohexane-1,2-dinitrilotetraacetic acid, trans-; (CyDTA)	13291-61-7	10	30	50	250	mg/m^3		No tox data except irritation and physical data from ChemFinder vendor catalog.
816	Cyclohexanediamine, 1,2-	694-83-7	3	10	60	350	mg/m^3		Added.
817	Cyclohexanedimethanol, cis and trans, 1,4-	105-08-8	12.5	40	250	500	mg/m^3		
818	Cyclohexanol	108-93-0	50	50	50	400	ppm		

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
819	Cyclohexanone; (Ketohexamethylene)	108-94-1	50	50	50	700	ppm		
820	Cyclohexene	110-83-8	300	300	500	***2,000***	ppm		See LEL formatting note.
821	Cycloheximide	66-81-9	0.1	0.3	2	2	mg/m^3		
822	**Cyclohexyl isocyanate**	**3173-53-3**	0.004	0.0125	0.02	**0.10**	ppm		**Interim AEGL-3** added.
823	Cyclohexyl methyl phosphonic acid	1932-60-1	10	30	50	250	mg/m^3		Not found in databases. MSDS pchem data.
824	**Cyclohexylamine**	**108-91-8**	1.8	**1.8**	**8.6**	**30**	ppm		**Final AEGL-1, -2, -3**
825	Cyclohexylamino)-1-propanesulfonic acid, 3-(; (CAPS)	1135-40-6	1.25	4	25	125	mg/m^3		
826	Cyclohexylethanol, 2-	4442-79-9	4	10	75	400	mg/m^3		
827	Cyclooctadiene, 1,5-	111-78-4	100	300	***2,000***	***10,000***	ppm		See LEL formatting note.
828	Cyclooctane	292-64-8	5	15	100	500	ppm		In HC&P, ChemFinder, no toxicity data. "Y" corrected.
829	Cyclooctatetraene, 1,3,5,7-	629-20-9	65,000	65,000	2.30E+05	4.00E+05	ppm		TSCA listed. Simple asphyxiant.
830	Cyclooctene, cis-	931-87-3	3.5	10	60	350	mg/m^3		TSCA listed, no toxicity data, assumed HHR =3.
831	Cyclopentane	287-92-3	600	***1,800***	***3,840***	***15,000***	ppm		See LEL formatting note.
832	Cyclopentanone	120-92-3	25	25	40	600	ppm	**P-2**	
833	Cyclopropane	75-19-4	200	600	***4,000***	***60,000***	ppm		See LEL formatting note.
834	Cyclotetramethylene tetranitramine; (HMX)	2691-41-0	0.04	0.125	0.75	500	mg/m^3		
835	Cyclotol; (RDX-TNT mixture)	8065-53-0	0.6	3	15	60	mg/m^3	**T-0, P-2, P-3**	2,4,6-Trinitrotoluene (40%) mixed with Hexahydro-1,3,5-trinitro-1,3,5-triazine (60%).
836	Cyclotrimethylenetrinitramine; (RDX or Cyclonite)	121-82-4	0.5	3	40	40	mg/m^3		CASRN also used for RDX and HMX mixtures.
837	Cytidine monophosphate; (Cytidine 5-monophosphate free acid)	63-37-6	7.5	25	150	500	mg/m^3		
838	Dawsonite; (Crystalline dehydroxy sodium aluminum, carbonate)	12011-76-6	3.5	10	150	500	mg/m^3		**SAR**

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
839	DDD; (1,1-bis(4-Chlorophenyl)-2,2-dichloroethane)	72-54-8	12.5	35	250	500	mg/m^3		
840	DDE; (2,2-bis(p-Chlorophenyl)-1,1-dichloroethylene)	72-55-9	4	12.5	75	400	mg/m^3		
841	DDT; (Dichlorodiphenyltrichloroethane)	50-29-3	1	1	2	500	mg/m^3		
842	DEAE Sepharose CL-6B	62610-50-8	10	30	50	250	mg/m^3		Not found in databases. CASRN changed back to 62610-50-8 per NLM, WAS 57407-08-6.
843	Decaborane	17702-41-9	0.3	0.75	10	15	mg/m^3		
844	Decafluoropentane, 1,1,1,2,3,4,4,5,5,5-	138495-42-8	200	200	400	1,250	ppm		MSDS HHR, exposure limits, toxicity data.
845	Decahydronaphthalene	91-17-8	0.5	1.5	10	75	ppm		
846	Decahydronaphthalene, cis-; (cis-Decalin)	493-01-6	0.5	1.5	10	75	ppm		SAX has CASRN = 91-17-8 for generic Decalin. HC&P has 493-01-6 for "cis," 493-02-7 for "trans."
847	Decahydronaphthalene, trans-; (trans-Decalin)	493-02-7	0.5	1.5	10	75	ppm		SAX has CASRN = 91-17-8 for generic Decalin. HC&P has 493-01-6 for "cis," 493-02-7 for "trans."
848	Decamethylcyclopentasiloxane	541-02-6	15	50	350	500	mg/m^3		Synonym = Silicone (several formulations).
849	Decanal	112-31-2	2.5	7.5	50	250	ppm		
850	Decane	124-18-5	0.06	0.2	1.25	***5,000***	ppm		See LEL formatting note.
851	Decene, 1-, homopolymer, hydrogenated	68037-01-4	10	30	50	250	mg/m^3		
852	Decyl alcohol; (1-Decanol)	112-30-1	4	12.5	75	500	mg/m^3		
853	Demeton	8065-48-3	0.1	0.15	2	10	mg/m^3		SAX name = "Demeton-o+demeton-s"; MW is 258.34 in some references.
854	Demeton-s-methyl	919-86-8	0.05	0.15	5	200	mg/m^3		
855	Deoxyribonucleic acid; (DNA)	9007-49-2	12.5	35	250	500	mg/m^3		No pchem data found.
856	Deuterium	7782-39-0	***65,000***	***65,000***	***2.30E+05***	***4.00E+05***	ppm		See LEL formatting note.
857	Deuterium oxide; (Heavy water)	7789-20-0	2,000	***6,000***	***40,000***	***2.00E+05***	ppm		See LEL formatting note.
858	Deuterochloric acid; (Deuterium chloride)	7698-05-7	0.5	1.8	22	100	ppm	**T-0, P-1, P-2, P-3**	

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
859	Dextran	9004-54-0	0.35	1	6	500	mg/m^3		
860	Dextran sulfate sodium	9011-18-1	15	40	300	500	mg/m^3		
861	Di(ethylene glycol) diacrylate	4074-88-8	1	3	20	100	mg/m^3		
862	Di-2-ethylhexyl adipate	103-23-1	50	150	500	500	mg/m^3		
863	Diacetoxydibutyl stannane	1067-33-0	0.296	0.592	7.5	73.9	mg/m^3		
864	Diacetyl peroxide; (Acetyl peroxide)	110-22-5	7.5	20	150	500	mg/m^3		
865	Dialifor	10311-84-9	1	3	5	5	mg/m^3		
866	Diallyl phthalate	131-17-9	3	50	250	250	mg/m^3	**T-0, P-1, P-2, P-3**	
867	Diallyldimethylammonium chloride	7398-69-8	25	75	500	500	mg/m^3		
868	Diallyldimethylammonium chloride polymer	26062-79-3	12.5	35	250	500	mg/m^3		
869	Diamino-6-(2'-methylimidazol-1-yl)ethyl-s-triazine, 2,4-; (1,3,5-Triazine-2,4-diamine, 6-(2-(2-methyl-1H-imidazol-1-yl)ethyl)-; Curezol 2MEA-PW)	38668-46-1	10	30	50	250	mg/m^3		Added. TSCA listed, no toxicity data found, no MSDS found.
870	Diaminodiphenyl ether, 4,4'-; (4,4'-Oxydianiline)	101-80-4	0.5	1.5	10	300	mg/m^3		
871	Diaminodiphenylsulfone; (4,4'-Sulfonyldianiline)	80-08-0	1	3	20	400	mg/m^3		
872	Diaminodipropylamine, 3,3-; (Aminobis(propylamine))	56-18-8	0.6	1.5	12.5	60	ppm		
873	Diaminopyridine, 2,6-	141-86-6	0.4	1.25	7.5	40	mg/m^3		
874	Diammonium molybdate	27546-07-2	8.81	8.81	8.81	500	mg/m^3		TSCA listed, no pchem data. Assumed soluble compound.
875	Diamond	7782-40-3	7.5	20	150	500	mg/m^3		
876	Dianisidine dihydrochloride, o-; (3,3'-Dimethoxybenzidine dihydrochloride)	20325-40-0	0.1	0.35	2.5	7.5	mg/m^3		
877	Diatomaceous earth (flux calcinated; Filter agent, celite; Amorphous silica)	68855-54-9	0.3	0.9	1.5	500	mg/m^3		HSDB, TSCA listed.
878	Diatomaceous earth; (Silica-amorphous diatomaceous earth (uncalcined))	61790-53-2	6	18	30	500	mg/m^3		PEL-TWA = 80 mg/m^3 / % SIO2.

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
879	Diatomaceous silica, calcined	91053-39-3	0.3	0.9	1.5	500	mg/m^3		TSCA listed. MAK for Silica-amorphous diatomaceous earth (calcined).
880	Diazabicyclo(2,2,2)octane, 1,4-	280-57-9	1	3	20	500	mg/m^3		
881	Diazabicyclo(5.4.0)undec-7-ene, 1,8-	6674-22-2	1.5	5	35	150	mg/m^3		TSCA listed, no toxicity data found. MSDS HHR = 3.
882	Diazoacetic acid; (Ethyl diazoacetate)	623-73-4	0.2	0.6	4	150	mg/m^3		
883	Diazomethane	334-88-3	0.2	0.6	2	2	ppm		
884	Dibenza(a,h)anthracene	53-70-3	7.50E-04	0.0025	0.015	15	mg/m^3		
885	Dibenzo(a,e)pyrene; (Naphtho(1,2,3,4-def)chrysene)	192-65-4	0.005	0.015	0.1	0.5	mg/m^3		
886	Dibenzofuran	132-64-9	10	30	50	250	mg/m^3		
887	Dibenzo-p-dioxin	262-12-4	1.5	4	30	500	mg/m^3		
888	**Diborane**	**19287-45-7**	0.1	0.15	**1.0**	**3.7**	ppm		**Final AEGL-2, -3**
889	Dibromo-3-chloropropane, 1,2-; (DBCP)	96-12-8	1.00E-03	0.075	0.5	15	ppm		
890	Dibromo-4-nitrophenol, 2,6-	99-28-5	0.04	0.1	0.75	4	ppm		
891	Dibromochloromethane; (Chlorodibromomethane)	124-48-1	2	6	40	150	mg/m^3		
892	Dibromohexane, 1,6-	629-03-8	1	3.5	20	100	mg/m^3		
893	Dibromomethane; (Methylene dibromide)	74-95-3	10	30	200	1,250	ppm		Duplicate deleted. Original units changed to ppm.
894	Dibromophenol, 2,6-	608-33-3	0.5	0.5	2.5	2.5	mg/m^3		**SAR**
895	Dibromopropane, 1,3-	109-64-8	2	6	40	200	mg/m^3		
896	Dibromotetrafluoroethane; (Halon 2402)	124-73-2	150	500	3,500	15,000	ppm		
897	Dibutyl (2-ethylhexyl)phosphate	z-0011	0.2	0.6	0.7	0.7	ppm		**SAR**
898	Dibutyl butylphosphonate	78-46-6	0.04	0.125	1	5	ppm		

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
899	Dibutyl peroxide, tert-	110-05-4	1.25	4	25	400	ppm		
900	Dibutyl phosphate	107-66-4	1	2	6	30	ppm	**P-2**	Changed "N" to "Y."
901	Dibutyl phosphite	1809-19-4	20	60	400	500	mg/m^3	**T-0, P-1, P-2**	
902	Dibutyl phthalate	84-74-2	5	15	75	500	mg/m^3	**P-2**	
903	Dibutylboron triflate; (Dibutylboryl trifluoromethanesulfonate)	60669-69-4	12	36.1	60.1	500	mg/m^3		Not found in databases, no useful information in MSDS.
904	Dibutylhexamethylenediamine, N,N'-	4835-11-4	1	3	22	75	mg/m^3		
905	Dichloran; (2,6-Dichloro-4-nitroaniline; Resisan)	99-30-9	0.004	0.0125	0.075	500	mg/m^3		
906	Dichloro(4,4-dimethylzinc -5((((methylamino)carbonyl) oxy)-imino)pentanenitrile), (trans-4)-; (Ethienocarb)	58270-08-9	1.5	5	9	9	mg/m^3		
907	**Dichloro-1,1,1-trifluoroethane, 2,2-; (HCFC-123)**	**306-83-2**	50	150	**1000**	**10000**	ppm		**ERPG-2, -3**
908	**Dichloro-1-fluoroethane, 1,1-; (HCFC-141b; Freon 141)**	**1717-00-6**	500	**1000**	**1700**	**3000**	ppm		**Final AEGL-1, -2, -3**
909	Dichloro-2-butene, 1,4-	764-41-0	0.005	0.015	20	125	ppm		
910	Dichloro-2-propanol, 1,3-	96-23-1	6	15	50	50	ppm		
911	Dichloro-2-trifluoromethylbenzimidazole, 4,5-; (Chloroflurazole)	3615-21-2	2.5	7.5	13	13	mg/m^3		
912	Dichloroacetic acid	79-43-6	0.5	10	75	200	ppm		
913	**Dichloroacetyl chloride**	**79-36-7**	0.0125	**0.040**	**1.60**	**52**	ppm		**Interim AEGL-1, -2, -3**
914	Dichloroacetylene	7572-29-4	0.5	1.5	10	40	ppm	**P-2, P-3**	
915	Dichloroamine; (Chlorimide)	3400-09-7	0.25	0.75	6	30	ppm		
916	Dichlorobenzene, m-	541-73-1	2	2	15	75	ppm	**T-0**	
917	Dichlorobenzene, o-	95-50-1	25	50	50	200	ppm		
918	Dichlorobenzene, p-	106-46-7	10	10	30	150	ppm		

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
919	Dichlorobenzidene, 3,3'-	91-94-1	0.2	0.6	4	200	ppm		
920	Dichlorocyclohexane, 1,1-	2108-92-1	0.25	0.75	6	30	ppm		**SAR**
921	Dichlorocyclohexane, trans-1,2-	822-86-6	0.25	0.75	6	30	mg/m^3	**T-0, P-1, P-2, P-3**	In H&N, used chlorocyclohexane, CASRN 542-18-7.
922	Dichlorodifluoromethane; (Freon 12, CFC 12)	75-71-8	1,000	3,000	10,000	15,000	ppm		
923	Dichloroethanol acetate, 1,2-	10140-87-1	0.35	1	1.71	6	ppm		
924	Dichloroethyl ether; (1,1'-Oxybis(2-chloro)ethane; Bis(2-chloroethyl)ether)	111-44-4	5	10	25.7	100	ppm		
925	Dichloroethylaluminum	563-43-9	2	6	6	10	mg/m^3	**T-0, P-1, P-2, P-3**	Alkylaluminums, severe irritant, no toxicity data found.
926	Dichloroethylbenzene; (Ethyldichlorobenzene)	1331-29-9	20	60	500	500	mg/m^3		
927	Dichloroethylene, 1,2-	540-59-0	200	600	1,000	1,000	ppm		
928	**Dichloroethylene, cis-1,2-**	**156-59-2**	140	**140**	**500**	**850**	ppm		**Interim AEGL-1, -2, -3**
929	**Dichloroethylene, cis-and trans-1,2-**	**156-60-5**	200	**280**	**1000**	**1700**	ppm		**Interim AEGL-1, -2, -3** AEGL name used, although NLM has trans-1,2-.
930	Dichlorofluoromethane; (Freon 21, CFC 21)	75-43-4	10	30	100	5,000	ppm		PEL-TWA not used.
931	Dichlorohexane, 1,2-	2162-92-7	0.25	0.75	6	30	ppm		**SAR**
932	Dichlorohexane, 1,6-	2163-00-0	15	50	350	500	mg/m^3	Added.	Added. No toxicity data found. Rat oral LD50 taken from 2,5-dichlorohexane (13275-18-8).
933	Dichloroisopropyl ether	108-60-1	0.3	0.75	6	75	ppm	**T-0, P-1, P-2, P-3**	
934	Dichloromethane-d2	1665-00-5	25	200	560	***6,900***	ppm	**P-2, P-3**	
935	Dichloromethoxy ethane; (bis(2-Chloroethoxy)methane)	111-91-1	0.6	2	6	6	ppm		
936	**Dichloromethyl ether; (bis(Chloromethyl)ether)**	**542-88-1**	1.00E-03	0.006	**0.044**	**0.18**	ppm		**Interim AEGL-2, -3** **ERPG-2, -3**
937	Dichloromethylphenylsilane	149-74-6	1	3	20	20	mg/m^3		
938	Dichloromethylphosphine; (Methylphosphonous dichloride)	676-83-5	0.1	0.3	2	10	ppm		

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Table 2: Protective Action Criteria (PAC) Rev 25
Based on applicable AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
939	Dichlorooctane, 1,8-	2162-99-4	10	30	200	500	mg/m^3	Added.	Added. No toxicity data found. Rat toxicity based on other dichloroalkyls.
940	Dichlorophene	97-23-4	6	15	125	500	mg/m^3		
941	**Dichlorophenol, 2,4-**	**120-83-2**	0.2	**0.2**	**2**	**20**	ppm		**ERPG-1, -2, -3**
942	Dichlorophenol, 2,6-	87-65-0	1.5	5	35	150	mg/m^3		
943	Dichlorophenoxyacetic acid, 2,4-; (2,4-D)	94-75-7	10	10	40	100	mg/m^3		
944	Dichloropropane	26638-19-7	10	300	400	400	ppm		Used Propylene dichloride (78-87-5).
945	Dichloropropane, 1,1-	78-99-9	4	12.5	75	400	ppm		
946	Dichloropropane, 1,2-; (Propylene dichloride)	78-87-5	10	300	400	400	ppm		PEL-TWA ignored.
947	Dichloropropane, 1,3-	142-28-9	5	15	100	350	ppm		Toxicity data used.
948	Dichloropropane, 2,2-	594-20-7	4	12.5	75	400	ppm		Toxicity data used.
949	Dichloropropene, 1,1-	563-58-6	1	3	5	200	ppm		Toxicity based on SAX hazard rating.
950	Dichloropropene, 1,2-	563-54-2	1.5	5	40	200	ppm		
951	Dichloropropene, 1,3-	542-75-6	1	20	150	400	ppm	**P-1, P-2, P-3**	
952	Dichloropropene, 2,3-	78-88-6	0.2	0.6	4	75	ppm	**T-0, P-1, P-2, P-3**	
953	Dichloropropene, cis-1,2-; (1,2-Dichloro-1-propene, (Z)-)	6923-20-2	1.5	5	40	200	ppm		Used data from 1,2-dichloropropene, 563-54-2.
954	Dichloropropene, cis-1,3-	10061-01-5	0.04	0.125	0.75	4	ppm	**T-0, P-1, P-2, P-3**	
955	Dichloropropene, trans-1,3-	10061-02-6	1	20	150	200	ppm	**P-1, P-2, P-3**	No toxicity data found. Used limits for 1,3-dichloropropene, 542-75-6.
956	**Dichlorosilane**	**4109-96-0**	0.3	**0.90**	**11**	**50**	ppm		**Interim AEGL-1, -2, -3**
957	Dichlorotetrafluoroethane	1320-37-2	10,000	30,000	60,000	60,000	ppm	**T-0, P-1, P-2, P-3**	See CASRN = 76-14-2; RTECS toxicity data differ.
958	Dichlorotetrafluoroethane, 1,2-; (Freon 114, CFC 114)	76-14-2	1,000	3,000	15,000	15,000	ppm		See CASRN 1320-37-2; RTECS toxicity data differ.

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No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
959	Dichlorovos; (Dichlorvos)	62-73-7	1	1	20	100	mg/m^3	P-2	Units corrected.
960	Dicrotophos	141-66-2	0.05	0.15	0.9	40	mg/m^3		
961	Dicyclohexano-18-crown-6	16069-36-6	0.2	0.6	4	75	mg/m^3		
962	Dicyclohexyl; (Cyclohexylcyclohexane)	92-51-3	7.5	25	150	500	mg/m^3		No toxicity data found. Assumed HHR = 2.
963	Dicyclohexylcarbodiimide	538-75-0	0.0035	0.01	0.06	100	mg/m^3		
964	**Dicyclopentadiene**	**77-73-6**	0.01	**0.01**	**5**	**75**	ppm		**ERPG-1, -2, -3**
965	Didecyldimethylammonium chloride	7173-51-5	1.5	5	35	35	mg/m^3		Rat oral TDlo value corrected. No pchem data found.
966	Dieldrin	60-57-1	0.25	0.75	25	50	mg/m^3	P-2	
967	Diesel fuel marine; (Diesel fuel No. 4)	z-0012	100	350	500	500	mg/m^3		
968	Diesel fuel marine; (Fuel oil No.2)	68476-30-2	100	100	500	500	mg/m^3	P-2	Toxicity data updated.
969	Diesel fuels	68334-30-5	100	250	500	500	mg/m^3	P-1	Toxicity data updated.
970	Diethanolamine	111-42-2	1	150	300	300	mg/m^3	T-0	
971	Diethenylbenzene, polymer with ethenylbenzene and ethenylethylbenzene, sulfonated; (Dowex 50-X8 resin)	69011-20-7	10	30	50	250	mg/m^3		No toxicity or pchem data found.
972	Diethoxydimethylsilane	78-62-6	5	15	100	500	ppm		
973	Diethyl (methylthiomethyl) phosphonate	28460-01-7	0.05	0.15	1	5	ppm		Not found; LD50 based on Methyl demeton methyl, CASRN=2587-90-8, MF=C5.H13.O3.P.S2. MSDS states irritant.
974	**Diethyl benzene isomers; (Dowtherm J)**	**25340-17-4**	5	**10**	**100**	**500**	ppm		**ERPG-1, -2, -3**
975	Diethyl carbonate	105-58-8	3	7.5	60	300	ppm		
976	Diethyl chlorophosphate	814-49-3	1.5	5	8	8	mg/m^3	T-0, P-1	Changed "Y" to "N" for mild irritant.
977	Diethyl ethylphosphonate	78-38-6	2	6	40	500	mg/m^3		New RTECS toxicity data added.
978	Diethyl malonate; (Ethyl malonate)	105-53-3	10	30	200	1,000	ppm		

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No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
979	Diethyl mercury	627-44-1	0.0129	0.0387	0.0516	2.58	mg/m^3		As Hg, alkyl compounds.
980	Diethyl methylphosphonate; (DEMP)	683-08-9	7.5	25	200	500	mg/m^3		
981	Diethyl oxalate	95-92-1	1.5	5	35	150	mg/m^3		
982	Diethyl phosphite	762-04-9	15	50	350	500	mg/m^3		
983	Diethyl phthalate; (Ethyl phthalate)	84-66-2	5	15	100	500	mg/m^3		
984	Diethyl pyrocarbonate	1609-47-8	10	30	200	500	mg/m^3		
985	Diethyl sulfate	64-67-5	0.075	0.2	1.5	25	ppm		Toxicity data changed.
986	Diethyl tartrate	87-91-2	10	30	50	250	mg/m^3		TSCA listed, no toxicity data found. No HHR found.
987	Diethyl telluride	627-54-3	0.1	0.3	6	10	mg/m^3		Added.
988	Diethyl trichloromethylphosphonate	866-23-9	3	7.5	60	300	mg/m^3	Added.	Added.
989	Diethylamine	109-89-7	15	15	75	200	ppm		
990	Diethylaminoacetone	1620-14-0	0.5	1.5	10	50	ppm		**SAR**
991	Diethylaminopropylamine	104-78-9	2	6	50	250	mg/m^3		
992	Diethylaniline, N,N-	91-66-7	7.5	20	150	500	mg/m^3	**T-0, P-1, P-2, P-3**	Toxicity data updated.
993	Diethylbenzene, m-	141-93-5	40	125	500	500	mg/m^3		
994	Diethylbenzene, o-	135-01-3	1.5	5	35	500	mg/m^3		
995	**Diethyldichlorosilane**	**1719-53-5**	0.3	**0.9**	**11**	**50**	ppm		**Interim AEGL-1, -2, -3** added.
996	Diethylene glycol	111-46-6	2.31	40	200	200	ppm		
997	Diethylene glycol di(3-aminopropyl) ether; (Polyglycol diamine)	4246-51-9	15	50	350	500	mg/m^3		
998	Diethylene glycol diacetate; (2,2'-Oxybisethanol diacetate)	628-68-2	100	300	500	500	mg/m^3		

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Based on applicable AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
999	Diethylene glycol dimethyl ether; (Bis(2-methoxy ethyl)ether)	111-96-6	5	15	400	400	ppm	**P-2**	
1000	Diethylene glycol hexyl ether; (n-Hexyl carbitol)	112-59-4	7.5	25	150	500	mg/m^3		
1001	Diethylenetriamine	111-40-0	1	1	1.25	1.5	ppm	**P-3**	
1002	Diethylenetriaminepentaacetic acid	67-43-6	2.5	7.5	50	250	mg/m^3	**T-0, P-1**	
1003	Diethylethanolamine, N,N-; (Diethylaminoethanol)	100-37-8	10	10	20	100	ppm		2007 GOEV, RTECS.
1004	Diethylphosphatoethyltriethoxy silane	757-44-8	75	200	500	500	mg/m^3		
1005	Diethylstilbestrol; ((E)-4,4'-(1,2-Diethyl-1,2-ethenediyl)bisphenol)	56-53-1	0.025	0.075	0.6	15	mg/m^3		
1006	Diethylthiourea, N,N'-	105-55-5	0.6	1.5	12.5	125	mg/m^3		
1007	Diethylurea, 1,3-	623-76-7	5	15	100	600	ppm		
1008	Diethylzinc	557-20-0	0.1	0.3	2	10	ppm	**T-0, P-1, P-2**	LC50 based on SAX Safety Profile.
1009	**Difluoroethane; (1,1-Difluoroethane; HFC 152a)**	**75-37-6**	1,000	***10000***	***15000***	***25000***	ppm		**ERPG-1, -2, -3** See LEL formatting note.
1010	Digitoxin	71-63-6	0.0075	0.025	0.18	0.25	mg/m^3		
1011	Diglycidyl Ether	2238-07-5	0.01	10	10	10	ppm		
1012	Diglycol monoethyl ether acetate; (Carbitol acetate)	112-15-2	20	60	400	500	mg/m^3	**T-0, P-1, P-2**	Toxicity data updated.
1013	Digoxin	20830-75-5	0.04	0.125	0.2	0.35	mg/m^3		
1014	Dihexyl((diethylcarbamoyl)methyl)phosphonate; (Dihexyl-N,N-diethylcarbamoylmethyl phosphonate)	7369-66-6	4	12.5	75	400	mg/m^3		
1015	Dihydro-2(3H)-furanone; (4-Butanolide)	96-48-0	2	6	40	500	mg/m^3		
1016	Dihydro-2H-pyran, 3,4-	110-87-2	0.4	1.25	7.5	40	ppm		VD =2.90, no toxicity data found. Toxicity based on HHR.
1017	Dihydro-3-(nonenyl)-2,5-furandione	28928-97-4	10	30	50	250	mg/m^3		TSCA, H&N listed, MFs differ, no toxicity data found, assumed nonvolatile.
1018	Dihydro-4-methyl furan, 2,3-	34314-83-5	1.5	5	35	150	mg/m^3		No toxicity data found, based on methylfuran.

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
1019	Dihydrogen hexachloroplatinate; (Chloroplatinic acid)	16941-12-1	0.0042	0.25	1.5	8.4	mg/m^3	**P-1**	Platinum soluble salts limits used.
1020	Dihydroxy-1,3-indandione, 2,2-; (Ninhydrin monohydrate)	485-47-2	0.3	1	6	35	mg/m^3		
1021	Dihydroxy-2-butene, 1,4-; (2-Butene-1,4-diol)	110-64-5	1.5	4	30	150	ppm		
1022	Dihydroxyanthraquinone, 1,8-	117-10-2	25	75	200	200	mg/m^3		
1023	Dihydroxybenzoic acid, 2,4-	89-86-1	1	3	20	350	mg/m^3		Mouse LD50 > 800 mg/kg.
1024	Dihydroxynaphthalene-2,7-disulfonic acid, disodium salt dihydrate, 4,5-	5808-22-0	10	30	50	250	mg/m^3		Chemfinder MF, MW. No toxicity data, MSDS pchem data.
1025	Diiodomethane; (Methylene iodide)	75-11-6	75	200	500	500	mg/m^3		
1026	Diisoamylamine	544-00-3	5	15	25	125	ppm		TSCA listed. No toxicity or HHR found.
1027	Diisobutyl ketone	108-83-8	50	50	50	500	ppm		
1028	Diisobutylaluminum hydride; (Diisobutylhydroaluminum)	1191-15-7	1.81	5.44	9.07	1,000	ppm	**T-0, P-1, P-2**	
1029	Diisobutylamine	110-96-3	0.2	0.6	4	20	ppm		
1030	Diisooctyl acid phosphate	27215-10-7	7.5	25	150	500	mg/m^3		Added. No toxicity data found. Used default rat oral LD50 based on SAX HR.
1031	Diisopropyl methylphosphonate	1445-75-6	2	6	40	350	mg/m^3	**T-0, P-1, P-2**	Toxicity data updated.
1032	Diisopropyl peroxydicarbonate	105-64-6	7.5	25	150	500	mg/m^3		
1033	Diisopropylamine	108-18-9	5	10	75	200	ppm	**P-1, P-2**	Toxicity data updated.
1034	Diisopropylamino)ethyl chloride hydrochloride, 2-(-	4261-68-1	0.0125	0.035	0.25	1.25	mg/m^3		
1035	Diisopropylaminoethanol, 2-; (N,N-Diisopropyl ethanolamine)	96-80-0	2.5	7.5	50	250	mg/m^3		
1036	Diisopropylaniline, 2,6-	24544-04-5	35	100	500	500	mg/m^3		
1037	Diisopropylbenzene, 1,3-	99-62-7	150	500	500	500	mg/m^3		
1038	Diisopropylethylamine, N,N-	7087-68-5	2	6	40	200	ppm		TSCA, HC&P, H&N listed, no toxicity data. HHR ex MSDS.

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
1039	Diisopropylfluorophosphate; (Phosphorofluoridic acid, bis(1-methylethyl) ester)	55-91-4	0.75	2	3.6	3.6	mg/m^3		
1040	Diisopropylnaphthalene; (Bis(isopropyl)naphthalene)	38640-62-9	12.5	40	300	500	mg/m^3		
1041	**Diketene; (Ketene dimer)**	**674-82-8**	0.35	**1**	**6**	**18**	ppm		**Interim AEGL-2, -3** **ERPG-1, -2, -3**
1042	Dilauroyl peroxide	105-74-8	0.003	0.01	0.06	0.35	mg/m^3		
1043	Dimefox; (bis(Dimethylamido)fluorophosphate))	115-26-4	0.2	0.6	1	1	mg/m^3		
1044	Dimethoate	60-51-5	6	15	30	30	mg/m^3		
1045	Dimethoxybenzene, 1,3-	151-10-0	3.5	10	75	400	mg/m^3		
1046	Dimethoxybenzene, o-	91-16-7	3.5	10	75	400	mg/m^3		
1047	Dimethoxybenzidene 3,3'-; (o-Dianisidine)	119-90-4	1.25	4	25	400	mg/m^3	**P-3**	Toxicity data updated.
1048	Dimethoxybutane, 1,3-	10143-66-5	7.5	25	150	750	ppm		
1049	Dimethoxybutane, 2,2-	3453-99-4	7.5	20	150	750	ppm		Not found. Based on 1,3-dimethoxybutane.
1050	Dimethoxydiphenylsilane	6843-66-9	0.15	0.5	3.5	15	mg/m^3		Rat LC > 42 mg/m^3
1051	Dimethoxyethane, 1,2-	110-71-4	3.5	10	75	1,000	ppm		
1052	Dimethoxypropane, 2,2-	77-76-9	0.4	1.25	7.5	40	ppm		No toxicity data found.
1053	Dimethyglyoxime; (Diacetyldioxime)	95-45-4	2	6	40	200	mg/m^3		
1054	Dimethyl butane, 2,2-	75-83-2	500	510	510	***2,500***	ppm		See LEL formatting note.
1055	Dimethyl carbamoyl chloride	79-44-7	0.005	0.015	4	100	ppm		New TLV-TWA.
1056	Dimethyl carbonate	616-38-6	15	40	300	1,500	ppm		
1057	Dimethyl cyclopentanol, 1,3-	19550-46-0	10	30	50	250	mg/m^3		Not found in databases. MF, MW from ChemFinder.
1058	**Dimethyl disulfide**	**624-92-0**	0.5	1.5	**50**	**250**	ppm	**T-0, P-1**	**ERPG-2, -3** **Odor-based ERPG-1 suppressed**

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
1059	Dimethyl hydrogen phosphite	868-85-9	20	60	400	500	mg/m^3		
1060	Dimethyl mercury	593-74-8	0.0115	0.0345	0.046	2.3	mg/m^3		Alkyl mercury compound, as Hg.
1061	Dimethyl methylphosphonate; (DMMP)	756-79-6	100	350	500	500	mg/m^3		
1062	Dimethyl phosphorochloridothioate	2524-03-0	1.5	4	32	150	mg/m^3		
1063	Dimethyl siloxane; (Dimethylpolysiloxane; Syltherm XLT; Syltherm 800; Silicone 360)	63148-62-9	15	50	350	500	mg/m^3		Several RTECS entries for this CASRN.
1064	**Dimethyl sulfate**	**77-78-1**	0.024	**0.024**	**0.12**	**1.6**	ppm		**Interim AEGL-1, -2, -3**
1065	**Dimethyl sulfide; (2-Thiopropane)**	**75-18-3**	10	150	**1000**	***5000***	ppm		**ERPG-2, -3** Odor-based ERPG-1 ignored. See LEL formatting note.
1066	Dimethyl sulfone	67-71-0	20	60	400	500	mg/m^3		Rat LD50 > 5 g/kg.
1067	Dimethyl sulfoxide; (DMSO)	67-68-5	250	250	250	2,000	ppm		
1068	Dimethyl(1-phenylethyl)benzene	40766-31-2	4	12.5	75	500	mg/m^3		
1069	Dimethyl(polysiloxane); (Polydimethylsiloxane, silanol terminated; Dimethylsiloxane, poly, hydroxy end-blocked)	70131-67-8	250	500	500	500	mg/m^3		Assumed density, rat oral LD50 > 64 mL/kg.
1070	Dimethyl-1,3-dioxolane-4-methanol, 2,2-	100-79-8	5	15	100	500	ppm		
1071	Dimethyl-1,3-propanediamine, N,N-; (1-Amino-3-dimethylaminopropane)	109-55-7	2.5	7.5	50	200	ppm		
1072	Dimethyl-1-butanamine, N,N-	927-62-8	200	500	500	500	mg/m^3		MSDS toxicity data inconsistent with RTECS.
1073	Dimethyl-2-pentene, (E)-3,4-	4914-92-5	0.4	1.25	7.5	40	ppm		No toxicity data found, estimated HHR.
1074	Dimethyl-3-nitrobenzene, 1,2-	83-41-0	10	30	50	250	mg/m^3		TSCA, HC&P listed, no toxicity data. MSDS pchem data differs.
1075	Dimethyl-3-pentanone, 2,4-	565-80-0	5	15	100	1,000	ppm		
1076	Dimethyl-5-phenylphenazinium chloride, 3,7-diamino-2,8-; (Safranine; Gossypimine)	477-73-6	0.25	0.75	5	25	mg/m^3		No pchem data found.
1077	Dimethylacetamide, N,N-	127-19-5	10	75	300	300	ppm		

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Table 2: Protective Action Criteria (PAC) Rev 25
Based on applicable AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
1078	Dimethylacrylamide, N,N-	2680-03-7	0.6	1.5	12.5	200	mg/m^3		No pchem data found.
1079	**Dimethylamine**	**124-40-3**	10	**10**	**66**	**250**	ppm		**Interim AEGL-1, -2, -3** **ERPG-1, -2, -3**
1080	Dimethylamino)benzaldehyde, p-(	100-10-7	7.5	25	150	250	mg/m^3		
1081	Dimethylamino)phenyl)azo)benzenesulfonic acid, sodium salt, p-((p-(; (Methyl orange, sodium salt)	547-58-0	0.25	0.75	5	25	mg/m^3		SAX, RTECS, HC&P, H&N all have H14, but HSDB, TSCA have H15 in MF.
1082	Dimethylaminoazobenzene, 4-	60-11-7	15	50	75	75	mg/m^3		
1083	Dimethylaminoethanol, 2-	108-01-0	12.5	35	150	150	ppm		
1084	Dimethylaminoethyl chloride hydrochloride, 2-	4584-46-7	0.6	2	15	100	mg/m^3		
1085	Dimethylammonium N,N-dimethylcarbamate	4137-10-4	1.5	5	35	150	mg/m^3		Not listed in databases, MSDS pchem data, no HHR found.
1086	Dimethylaniline, N,N-	121-69-7	5	10	10	100	ppm		
1087	Dimethylbenzidene 3,3'-; (o-Tolidine)	119-93-7	0.1	0.3	2	100	mg/m^3		
1088	Dimethylbutyric acid, 2,2-	595-37-9	7.5	25	150	500	mg/m^3		No toxicity data found. MSDS pchem and HHR data.
1089	**Dimethylchlorosilane; (Chlorodimethylsilane)**	**1066-35-9**	0.6	**1.8**	**22**	**100**	ppm		**Interim AEGL-1, -2, -3** added.
1090	Dimethylcyclohexane, cis-1,4-	624-29-3	0.75	2	15	75	ppm		In H&N, based on cyclohexane.
1091	Dimethyldecane, 2,2-	17302-37-3	50.3	50.3	259	***1,250***	ppm		See LEL formatting note.
1092	**Dimethyldichlorosilane**	**75-78-5**	0.3	**0.90**	**13**	**53**	ppm		**Interim AEGL-1, -2, -3**
1093	Dimethyldicyclopentadiene	26472-00-4	7.5	25	200	500	mg/m^3		
1094	Dimethyldimethoxysilane	1112-39-6	20	60	400	500	mg/m^3		
1095	Dimethylethyl hydroperoxide, 1,1-; (tert-Butylhydroperoxide)	75-91-2	0.75	2.5	15	50	ppm		
1096	**Dimethylformamide, N,N-**	**68-12-2**	2	**2**	**91**	**530**	ppm		**Interim AEGL-2, -3** **ERPG-1, -2, -3**
1097	Dimethylheptane, 2,2-	1071-26-7	66.8	66.8	343	***1,500***	ppm		In HC&P; NIOSH limits for Alkanes used. See LEL formatting note.

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
1098	Dimethylhexane, 3,3-	563-16-6	75	75	386	***2,000***	ppm		In HC&P; NIOSH limits for Alkanes used. See LEL formatting note.
1099	**Dimethylhydrazine, 1,1-**	**57-14-7**	0.5	0.5	**3.0**	**11**	ppm		**Final AEGL-2, -3** 120-min REL-C ignored.
1100	**Dimethylhydrazine, 1,2-**	**540-73-8**	0.6	1.5	**3.0**	**11**	ppm		**Final AEGL-2, -3**
1101	Dimethylimidizole, 1,2-	1739-84-0	4	12.5	75	400	mg/m^3		
1102	Dimethylisopropylamine, N,N-	996-35-0	3.6	10.8	18	75	mg/m^3	**T-0, P-1, P-2, P-3**	
1103	Dimethylnonane, 4,5-	17302-23-7	125	250	625	***1,250***	ppm	**P-2, P-3**	Not found in databases. Based on estimated TWA.
1104	Dimethyloctane, 3,5-	15869-93-9	100	200	500	***1,000***	ppm	**P-3**	Based on estimated TWA. See LEL formatting note.
1105	Dimethylphenol, 2,4-; (2,4-Xylenol)	105-67-9	0.3	1	6	500	mg/m^3		
1106	Dimethylphenol, 2,6-; (2,6-Xylenol)	576-26-1	0.75	2	15	125	mg/m^3		
1107	Dimethylphthalate	131-11-3	5	15	75	500	mg/m^3		
1108	Dimethylpolysilane; (Poly(dimethylsilane))	28883-63-8	0.75	2.5	10	25	ppm		Synonym added. Not found in databases, no pchem data found. Changed units to ppm.
1109	Dimethyl-p-phenylenediamine, N,N-	99-98-9	0.025	0.075	0.13	1	mg/m^3		
1110	Dimethylpropane, 2,2-; (Neopentane)	463-82-1	610	610	610	***1,500***	ppm	**P-3**	Used pentane limits. See LEL formatting note.
1111	Dimethylpyridine, 2,4-; (2,4-Lutidine)	108-47-4	0.2	0.6	4	20	ppm		
1112	Dimethyltetramethoxydisiloxane, 1,3-	18186-97-5	10	30	50	250	mg/m^3		Not found in databases.
1113	Dimetilan	644-64-4	5	15	25	25	mg/m^3		
1114	Di-N-amylamine	2050-92-2	0.06	0.2	1.25	6	ppm		
1115	Di-n-butylamine	111-92-2	0.25	0.75	5	50	ppm		
1116	Dinitraniline orange; (Hansa orange RN)	3468-63-1	10	30	50	250	mg/m^3		No data found.
1117	Dinitroaniline, 2,4-	97-02-9	0.035	0.1	0.75	12.5	mg/m^3		

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No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
1118	Dinitrobenzene, m-	99-65-0	1	3	25	50	mg/m^3	**P-2**	
1119	Dinitrobenzene, o-	528-29-0	1	3	5	50	mg/m^3		
1120	Dinitrobenzene, p-	100-25-4	1	3	5	50	mg/m^3		
1121	Dinitro-o-cresol, 4,6-	534-52-1	0.2	0.2	0.5	5	mg/m^3		
1122	Dinitrophenol	25550-58-7	0.035	0.1	0.75	4	mg/m^3	**T-0, P-1, P-2, P-3**	
1123	Dinitrophenol, 2,3-	66-56-8	0.75	2	15	75	mg/m^3		
1124	Dinitrophenol, 2,4-	51-28-5	1.25	3.5	25	30	mg/m^3	**T-0, P-1, P-2**	See also CASRN 25550-58-7, mixed isomers.
1125	Dinitrophenol, 2,6-	573-56-8	0.15	0.4	3	15	mg/m^3		
1126	Dinitro-p-toluidine, 2,6-; (4-Amino-3,5-dinitrotoluene)	6393-42-6	2.5	7.5	50	250	mg/m^3		
1127	Dinitrosopiperazine; (Piperazine, 1,4-dinitroso-)	140-79-4	0.5	1.5	10	60	mg/m^3		
1128	Dinitrotoluene	25321-14-6	0.2	0.6	12.5	50	mg/m^3		PEL-TWA suppressed.
1129	Dinitrotoluene, 2,4-	121-14-2	0.2	0.6	50	50	mg/m^3	**P-2**	PEL-TWA suppressed. Limits are for mixed isomers.
1130	Dinitrotoluene, 2,6-	606-20-2	0.2	0.6	6	50	mg/m^3		PEL-TWA suppressed. Limits are for mixed isomers.
1131	Dinitrotoluene, 3,4-	610-39-9	0.2	0.6	1	50	mg/m^3	**P-2**	PEL-TWA suppressed. Limits are for mixed isomers.
1132	Dinoseb; (2-sec-Butyl-4,6-dinitrophenol)	88-85-7	0.75	2.5	4.5	10	mg/m^3		
1133	Dinoterb; (2-(1,1-Dimethylethyl)-4,6-dinitrophenol)	1420-07-1	5	15	25	25	mg/m^3		
1134	Dioctyl phthalate, n-	117-84-0	15	50	400	500	mg/m^3		
1135	Dioctyl sebacate; (Bis(2-ethylhexyl) sebacate)	122-62-3	7.5	20	150	500	mg/m^3		
1136	Dioctyl sodium sulfosuccinate; (Di-(2-ethylhexyl) sodium sulfosuccinate)	577-11-7	7.5	20	150	500	mg/m^3		
1137	**Dioxane, 1,4-; (1,4-Diethyleneoxide)**	**123-91-1**	17	**17**	**320**	**760**	ppm		**Interim AEGL-1, -2, -3**

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
1138	Dioxathion	78-34-2	0.1	0.3	3.4	150	mg/m^3		
1139	Dioxin; (TCDD; 2,3,7,8-tetrachlorodibenzo-p-dioxin)	1746-01-6	1.00E-08	0.0015	0.0075	0.0075	mg/m^3	**T-0**	SAX has synonym 2,3,6,7-tetrachlorodibenzo-p-dioxin, not other databases.
1140	Dioxolane, 1,3-	646-06-0	20	60	69.3	***3,000***	ppm	**P-1, P-3**	See LEL formatting note.
1141	Dipentaerythritol; (Dipentek)	126-58-9	10	30	50	250	mg/m^3		No toxicity data found.
1142	Dipentyl pentylphosphonate	6418-56-0	25	75	500	500	mg/m^3		RTECS LD > 3160 mg/kg.
1143	Diphacinone; (Diphenadione)	82-66-6	0.15	0.5	0.9	500	mg/m^3		
1144	Diphenyl cresol phosphate	26444-49-5	2.5	7.5	50	500	mg/m^3		Name changed, synonym deleted.
1145	Diphenyl mercury	587-85-9	0.177	0.177	0.177	17.7	mg/m^3		Mercury, aryl compound limits, as Hg.
1146	**Diphenyl; (Biphenyl)**	**92-52-4**	0.2	1.25	**9.6**	15.9	ppm		**Interim AEGL-2**
1147	Diphenylamine	122-39-4	10	30	500	500	mg/m^3	**P-2, P-3**	
1148	**Diphenylchloroarsine; (Chlorodiphenylarsine)**	**712-48-1**	0.39	0.39	**0.39**	**1.2**	mg/m^3		Added. **Interim AEGL-2, -3**
1149	**Diphenyldichlorosilane**	**80-10-4**	0.3	**0.90**	**11**	**50**	ppm		Added. **Interim AEGL-1, AEGL-2, AEGL-3**
1150	Diphenylguanidine, 1,3-	102-06-7	0.2	0.6	4	125	mg/m^3		
1151	Diphenylhydrazine, 1,2-	122-66-7	0.2	0.6	4	125	mg/m^3		
1152	Diphenylmethane	101-81-5	7.5	25	200	500	mg/m^3		
1153	Diphenylnitrosamine	86-30-6	7.5	25	150	500	mg/m^3		
1154	Diphenyloxazole, 2,5-	92-71-7	3	7.5	60	300	mg/m^3		
1155	Dipicolinic acid; (2,6-Pyridinedicarboxylic acid)	499-83-2	10	30	50	250	mg/m^3		TSCA, HC&P listed, no toxicity data. MSDS MW = 147.12.
1156	Dipotassium cadmium oxide	z-0013	0.0099	0.0594	0.1	17.8	mg/m^3		Cadmium compounds, as Cd.
1157	Dipotassium dihydrogen silicate	z-0014	10	30	50	250	mg/m^3		MW = 140.30 for MF = K2H2SiO2

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
1158	Dipotassium metasilicate	10006-28-7	6	15	125	500	mg/m^3		**SAR**
1159	Dipropyl ketone; (4-Heptanone)	123-19-3	50	350	350	350	ppm	**P-1, P-2**	
1160	Dipropylamine	142-84-7	0.2	0.6	4	500	mg/m^3	**T-0, P-1, P-2**	
1161	Dipropylene glycol methyl ether	34590-94-8	100	150	300	600	ppm		IDLH added.
1162	Direct Black 38; (Apomine black GX)	1937-37-7	25	75	500	500	mg/m^3		
1163	Di-sec-octylphthalate	117-81-7	5	10	75	500	mg/m^3		
1164	Disodium (2-ethylhexyl)phosphate	15505-13-2	0.02	0.06	0.4	2	mg/m^3		TSCA and H&N listed. **SAR**
1165	Disodium 3,6-endoxohexahydrophthalate	129-67-9	1	3	20	20	mg/m^3		
1166	Disodium butylphosphate	64114-42-7	0.02	0.06	0.4	2	mg/m^3		**SAR**
1167	Disodium cadmium oxide	z-0016	0.00847	0.0508	0.0847	15.2	mg/m^3		Cadmium compound, as Cd.
1168	Disodium dihydrogen silicate	z-0017	10	30	50	250	mg/m^3		
1169	Disodium ethylenediaminediacetate (S and U isomers)	38011-25-5	4	12.5	75	400	mg/m^3		RTECS MW = 222.18 SAR.
1170	Disodium hexafluorosilicate (2-)	16893-85-9	4.12	4.12	5	5	mg/m^3		Use human toxicity rather than fluoride IDLH (250).
1171	Disodium iminodiacetate	928-72-3	4	12.5	100	500	ppm		TSCA has MF with H7 rather than H5.
1172	Disulfiram	97-77-8	2	6	10	125	mg/m^3	**P-1, P-2**	
1173	Disulfoton	298-04-4	0.05	0.15	2	75	mg/m^3		
1174	Di-tert-butyl dicarbonate	24424-99-5	0.4	1.25	7.5	40	mg/m^3		
1175	Di-tert-butylhydroquinone, 2,5-	88-58-4	12.5	40	250	400	mg/m^3		
1176	Dithiazanine iodide; (3,3'-Diethylpentamethinethiacyanine iodide)	514-73-8	4	12.5	20	20	mg/m^3		
1177	Dithiobiuret	541-53-7	1	3	5	5	mg/m^3		

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
1178	Dithiodiethanol, 2,2-; (Dithiodiglycol)	1892-29-1	0.75	2	15	75	mg/m^3		HC&P pchem data.
1179	Dithioerythritol, 1,4-	6892-68-8	1.25	4	25	125	mg/m^3		
1180	Diurethane dimethacrylate	72869-86-4	75	250	500	500	mg/m^3		TSCA listed. No toxicity or pchem data found. MSDS HHR = 0.
1181	Divinylbenzene, m-; (m-Vinylstyrene)	108-57-6	10	10	75	350	ppm		Mixed isomer TLV-TWA and LD50 used.
1182	Divinylbenzene, mixed isomers; (Vinylstyrene)	1321-74-0	10	10	75	350	ppm		
1183	Dodecamethylcyclohexasiloxane	540-97-6	10	30	50	500	mg/m^3		Rat oral LD50 > 50 g/kg. **SAR**
1184	Dodecane	112-40-3	0.015	0.05	0.35	20	ppm		
1185	Dodecanethiol, 1-; (Dodecyl mercaptan; Lauryl mercaptan)	112-55-0	0.1	0.1	0.5	2.5	ppm	**P-1**	
1186	Dodecen-1-yl)succinic anhydride, (2-; (DDSA)	19780-11-1	10	30	50	250	mg/m^3		TSCA listed, no toxicity data or HHR found.
1187	Dodecenyl succine anhydride; (Tetrapropenylsuccinic anhydride)	26544-38-7	10	30	200	500	mg/m^3		
1188	Dodecenylsuccinic anhydride	25377-73-5	5	15	100	500	mg/m^3		
1189	Dodecyl alcohol	112-53-8	0.4	1	7.5	500	mg/m^3		
1190	Dodecyl methacrylate	142-90-5	5	15	100	500	ppm		
1191	Dodecylbenzene sulfonic acid; (Laurylbenzenesulfonic acid)	27176-87-0	2.5	7.5	50	250	mg/m^3		
1192	Dodecylphenol, 4- (mixture of isomers)	27193-86-8	7.5	25	150	500	mg/m^3		Pchem data varies in SAX, HSDB, HC&P.
1193	Dodecylsarcosine sodium salt, N-; (N-laurel sarcosine sodium salt)	7631-98-3	1.5	4	30	150	mg/m^3		
1194	**Dodecyltrichlorosilane**	**4484-72-4**	0.2	**0.60**	**7.3**	**33**	ppm		**Interim AEGL-1, -2, -3** added.
1195	Dowex 50WX4 (50-400 ion exchange resin)	11113-61-4	10	30	50	250	mg/m^3		Not found in databases. No MSDS, assume solid.
1196	Dv methyl ester; (Methyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate)	61898-95-1	10	30	50	250	mg/m^3		TSCA listed. No toxicity data found. MW, BP, SG ex MSDS.
1197	Dysprosium	7429-91-6	10	30	50	250	mg/m^3		No toxicity data found.

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
1198	Dysprosium nickelide	12175-27-8	10	30	50	250	mg/m^3		Not found in databases.
1199	Dysprosium nitrate	10143-38-1	10	30	200	500	mg/m^3		
1200	Dysprosium oxide; (Dysprosium(III) oxide)	1308-87-8	20	60	400	500	mg/m^3		Rat oral LD50 > 5 g/kg.
1201	Ecolite	z-0018	20	60	400	500	mg/m^3		
1202	Emetine dihydrochloride, l-	316-42-7	0.05	0.15	0.4	0.4	mg/m^3	**P-2, P-3**	
1203	Endosulfan	115-29-7	0.1	0.3	0.8	35	mg/m^3		
1204	Endothion	2778-04-3	3.5	10	17	17	mg/m^3		
1205	Endrin	72-20-8	0.1	0.3	2	2	mg/m^3		
1206	Epibatidine	140111-52-0	0.0015	0.004	0.025	0.025	mg/m^3		Brookhaven National Lab requested and supplied toxicity data. Spelling changed for this "nicotine-like" substance.
1207	Epibromohydrin	3132-64-7	1.25	3.5	25	125	mg/m^3		
1208	**Epichlorohydrin**	**106-89-8**	0.5	**5.7**	**24**	**72**	ppm		**Interim AEGL-1, -2, -3**
1209	Epinephrine; (Vasotonin; (R)-4-(1-Hydroxy-2-(methylamino)ethyl)-1,2-benzenediol)	51-43-4	0.0025	0.0025	0.0025	0.0025	mg/m^3	**T-0, P-1, P-2, P-3**	Human toxicity-based T-2 > human LDlo.
1210	EPN; (O-Ethyl-O-(4-nitrophenyl) phenylthiophosphonate)	2104-64-5	0.5	0.5	5	5	mg/m^3		
1211	Epoxy resin (EPON 1001)	25068-38-6a	125	350	500	500	mg/m^3		
1212	Epoxy resin (EPON 1007)	25068-38-6b	125	350	500	500	mg/m^3		
1213	Epoxy resin (EPON 820)	25068-38-6c	50	150	500	500	mg/m^3		
1214	Epoxy resin ERL-2795	25068-38-6d	40	125	500	500	mg/m^3	**T-0, P-1, P-2**	
1215	Epoxy resin, cured; (4,4'-(1-Methylethylidene)biscyclohexanol, polymer with (chloromethyl)oxirane)	30583-72-3	10	30	50	250	mg/m^3		No toxicity data found.
1216	Epoxy resin; (Bisphenol A-Bisphenol A diglycidyl ether polymer))	25036-25-3	7.5	25	150	500	mg/m^3		TSCA, H&N listed. No toxicity data found. Used SRS HHR = 2.

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Table 2: Protective Action Criteria (PAC) Rev 25
Based on applicable AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
1217	Epoxy resin; (Epichlorhydrin, polymer with diethylene glycol)	25928-94-3	0.06	0.2	1.25	6	mg/m^3		
1218	Epoxybutane, 1,2- ; (1,2-Butylene oxide)	106-88-7	2	75	200	200	ppm		
1219	Epoxyethyl)-7-oxabicyclo(4.1.0)heptane, 3-(; (Vinyl cyclohexene dioxide)	106-87-6	0.1	0.35	2.5	75	ppm		Human skin exposure ignored.
1220	Erbium nitrate pentahydrate	10031-51-3	10	30	50	250	mg/m^3		No toxicity data found.
1221	Erbium(III) nitrate	10168-80-6	0.2	0.6	5	25	mg/m^3		
1222	Erbium(III) nitrate hexahydrate	13476-05-6	1	3	20	100	mg/m^3		
1223	Erbium(III) oxide	12061-16-4	20	60	400	500	mg/m^3		Rat LD50 > 5 g/kg.
1224	Ergocalciferol; (Vitamin D2)	50-14-6	7.5	25	40	40	mg/m^3		
1225	Ergotamine tartrate	379-79-3	2	6	10	60	mg/m^3		
1226	Estane; (Polyurethane resin; Urethane rubber)	61789-63-7	10	30	50	250	mg/m^3		OHMTADS lists "Estane-5703," CASRN = 51-79-6, MSDS not useful.
1227	Ethane	74-84-0	1,000	***3,000***	***5,000***	***25,000***	ppm		Aliphatic hydrocarbon gas TLV-TWA. See LEL formatting note.
1228	Ethanedioic acid, dimethyl ester	553-90-2	4	12.5	75	400	mg/m^3		Rat LDlo > 500 mg/kg.
1229	Ethanedithiol, 1,2-	540-63-6	0.35	1	7.5	40	ppm		
1230	Ethanediyl)bisbenzene, 1,1'-(1,2-; (Bibenzyl)	103-29-7	15	50	400	500	mg/m^3		
1231	Ethanediylbis(N-(carboxymethyl)glycine), N,N'-1,2-, dipotassium salt	2001-94-7	1.5	5	40	200	mg/m^3		
1232	Ethanediylbis(oxy))bisbenzene, 1,1'-(1,2-	104-66-5	10	30	50	250	mg/m^3		No toxicity data. MSDS solid.
1233	**Ethanethiol; (Ethyl mercaptan)**	**75-08-1**	0.5	**1.0**	**120**	**360**	ppm		**Interim AEGL-1, -2, -3**
1234	Ethanol, titanium(4+) salt	3087-36-3	10	30	50	250	mg/m^3		TSCA, H&N listed, no toxicity data, assumed nonvolatile liquid.
1235	Ethanolamine	141-43-5	3	6	30	30	ppm		
1236	Ethenylsilanetriol triacetate	4130-08-9	10	30	50	250	mg/m^3		TSCA, HC&P listed, no toxicity data, no MSDS found, assumed nonvolatile.

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
1237	Ethidium bromide; (2,7-Diamino-10-ethyl-9-phenylphenanthridinium bromide)	1239-45-8	0.15	0.5	4	20	mg/m^3		
1238	Ethion	563-12-2	0.05	0.15	13	350	mg/m^3		
1239	Ethoxyethanol, 2-	110-80-5	5	15	25	500	ppm	**P-2**	
1240	Ethoxyethoxy)ethanol, 2-(2-; (Carbitol cellosolve; Diethylene glycol monoethyl ether)	111-90-0	25	30	200	400	ppm		
1241	Ethoxyethyl methacrylate, 2-	2370-63-0	4	12.5	75	400	mg/m^3		TSCA listed, no toxicity or pchem data found. Toxicity based on Ethoxyethyl acrylate (106-74-1).
1242	Ethoxyethylacetate, 2-	111-15-9	5	75	500	500	ppm		PEL-TWA ignored.
1243	Ethoxyimino)butyl)-5-(2-ethylthiopropyl)-3-hydroxycyclohex-2-en-1-one, 2-(1-(; (Checkmate)	74051-80-2	12.5	40	250	500	mg/m^3		
1244	Ethoxylated alcohols, C16-18; (Nonionic surfactant)	68439-49-6	5	15	100	500	mg/m^3		Pchem data ex MSDS.
1245	Ethoxylated alcohols, C7-C21	68991-48-0	10	30	50	250	mg/m^3	**P-1, P-2, P-3**	No toxicity data found. Changed "Y" to "N" because no evidence of irritation found.
1246	Ethoxylated nonylphenol; (Nonyl phenyl polyethylene glycol ether)	9016-45-9	5	15	100	500	mg/m^3		
1247	Ethyl (or dimethyl) pyrrolidine	z-0020	5	15	100	500	mg/m^3		**SAR**
1248	Ethyl acetate	141-78-6	400	400	400	***2,000***	ppm		See LEL formatting note.
1249	Ethyl acetoacetate	141-97-9	15	50	350	500	mg/m^3		
1250	**Ethyl acrylate**	**140-88-5**	5	**8.3**	**36**	**240**	ppm		**Interim AEGL-1, -2, -3** PEL-TWA suppressed.
1251	Ethyl alcohol; (Ethanol)	64-17-5	1,000	1,000	1,000	***3,300***	ppm	**P-1, P-2**	Changed "N" to "Y" because TLV-STEL. See LEL formatting note.
1252	Ethyl alcohol-d; (Ethanol-d)	925-93-9	1,000	1,000	1,000	3,300	ppm	**P-1, P-2**	Not listed in databases, MSDS pchem data.
1253	Ethyl amyl ketone; (5-Methyl-3-heptanone; 3-Octanone)	541-85-5	25	25	25	100	ppm		Changed CASRN from 106-68-3, which is Ethyl amyl ketone, synonym 3-Octanone.
1254	Ethyl benzene	100-41-4	100	125	125	***800***	ppm		See LEL formatting note.
1255	Ethyl benzoate	93-89-0	7.5	25	150	500	mg/m^3		
1256	Ethyl bromoacetate	105-36-2	7.50E-04	0.0025	0.02	0.1	ppm		

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No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
1257	Ethyl butyl ketone; (3-Heptanone)	106-35-4	50	75	200	1,000	ppm		
1258	Ethyl cellulose	9004-57-3	20	60	400	500	mg/m^3		Rat oral LD50 > 5 g/kg.
1259	Ethyl chloride; (Chloroethane)	75-00-3	100	1,500	***3,800***	***3,800***	ppm		PEL-TWA ignored. See LEL formatting note.
1260	Ethyl chloroacetate	105-39-5	0.15	0.4	3	15	ppm		
1261	**Ethyl chloroformate**	**541-41-3**	1	1	**1.6**	**4.8**	ppm		**Interim AEGL-2, -3** **ERPG-2, -3**
1262	**Ethyl dimethylamido-cyanophosphate; (Tabun; GA)**	**77-81-6**	1.25E-04	**0.00042**	**0.0053**	**0.039**	ppm		**Final AEGL-1, -2, -3**
1263	Ethyl ether	60-29-7	400	500	500	***1,900***	ppm		See LEL formatting note.
1264	Ethyl formate	109-94-4	100	300	500	1,500	ppm		
1265	Ethyl hexanoic acid, 2-; (Butyl ethyl acetic acid)	149-57-5	5	15	125	500	mg/m^3		
1266	Ethyl lactate; (Ethyl (S)-(-)-lactate)	687-47-8	15	40	300	500	mg/m^3		HHR = 2. HSDB toxicity data.
1267	Ethyl mercury chloride; (Chloroethyl mercury)	107-27-7	0.0132	0.0396	0.0529	2.64	mg/m^3		Concentration limits, mercury, alkyl compounds.
1268	Ethyl methacrylate; (2-Methyl-2-propenoic acid, ethyl ester)	97-63-2	50	150	750	750	ppm		
1269	Ethyl nitrite	109-95-5	0.6	2	12.5	60	ppm		
1270	Ethyl O-2-diisopropylaminoethylmethylphosphonite, O-; (QL)	57856-11-8	10	30	50	250	mg/m^3		CHEMFINDER, TSCA listed, no toxicity data, assumed nonvolatile liquid or solid.
1271	Ethyl propionate	105-37-3	7.5	25	150	750	ppm		
1272	Ethyl S,S-dipropylphosphorodithioate, O-; (Mocap PC-84; Ethoprophos)	13194-48-4	5	15	26	26	mg/m^3	**T-0, P-1, P-2, P-3**	Pchem data added.
1273	Ethyl silicate polymer; (Silicic acid, ethyl ester)	11099-06-2	10	30	50	250	mg/m^3		TSCA, H&N listed, no pchem or toxicity data found. ChemFinder MW, MF.
1274	Ethyl-1,3-hexanediol, 2-; (Ethyl hexylene glycol)	94-96-2	12.5	40	300	750	ppm		
1275	**Ethyl-1-hexanol, 2-**	**104-76-7**	0.1	**0.1**	**120**	**227**	ppm		**ERPG-1, -2, -3**
1276	Ethyl-2-methylheptane, 3-	14676-29-0	15	50	350	***1,500***	ppm		No toxicity data found, ChemFinder listed, LC50 estimated. See LEL formatting note.

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No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
1277	Ethyl-2-methyloctane, 6-	62016-19-7	0.35	1	6	35	ppm		Undecane toxicity data used (C11 Alkanes).
1278	Ethyl-2-oxazoline, 2-	10431-98-8	0.1	0.3	2	10	ppm		TSCA listed, no toxicity or HHR found, MSDS pchem data.
1279	Ethyl-4-hydroxybenzoate; (p-Hydroxybenzoic acid ethyl ester)	120-47-8	250	500	500	500	mg/m^3		
1280	Ethyl-5-methylheptane, 3-	52896-90-9	0.06	0.2	1.25	***5,000***	ppm		See LEL formatting note.
1281	Ethyl-6-methyl-4-phenyl-3-cyclohexene-1-carboxylic acid sodium salt, 5-; (Mebane sodium salt)	16550-39-3	1.00E-03	0.003	0.02	0.1	mg/m^3		
1282	**Ethylamine; (Monoethylamine; Ethylamine anhydrous)**	**75-04-7**	7.5	**7.5**	**49**	**270**	ppm		**Interim AEGL-1, -2, -3**
1283	Ethylbenzaldehyde, 2-	22927-13-5	10	30	200	***1,000***	ppm		TSCA, HC&P, H&N & MSDS CASRN = 4748-78-1 for 4-ethylbenzaldehyde, TSCA has 53951-50-1 without "4-," "2-" not found. See LEL formatting note.
1284	**Ethylbis(2-chloroethyl)amine; (Bis(2-chloroethyl)ethylamine; Nitrogen mustard-1)**	**538-07-8**	0.004	0.0125	**0.022**	**0.37**	mg/m^3		**Interim AEGL-2, -3** LC data ex SAX, not in RTECS.
1285	**Ethylchlorothioformate**	**2941-64-2**	0.05	0.15	**0.26**	**0.79**	ppm		**Interim AEGL-2, -3**
1286	**Ethyldichloroarsine; (Dichloroethylarsine)**	**598-14-1**	0.0233	0.0233	**0.029**	**0.086**	mg/m^3	**T-0, P-1**	**Interim AEGL-2, -3**
1287	Ethylene	74-85-1	200	600	1,500	***7,500***	ppm	**P-2**	Mouse 120 min LC50 ignored, See LEL formatting note.
1288	**Ethylene chlorohydrin; (2-Chloroethanol)**	**107-07-3**	1	1	**4.0**	**12**	ppm		**Interim AEGL-2, -3**
1289	**Ethylene dibromide; (Dibromoethane)**	**106-93-4**	17	**17**	**24**	**46**	ppm		**Interim AEGL-1, -2, -3**
1290	**Ethylene dichloride; (1,2-Dichloroethane)**	**107-06-2**	50	**50**	**200**	**300**	ppm		**ERPG-1, -2, -3**
1291	Ethylene fluorohydrin; (2-Fluoroethanol)	371-62-0	0.005	0.015	0.0267	1.25	ppm		
1292	Ethylene glycol	107-21-1	10	10	40	60	ppm		
1293	Ethylene glycol diacetate	111-55-7	25	75	500	500	mg/m^3		Added.
1294	Ethylene glycol dimethacrylate	97-90-5	12.5	40	300	500	mg/m^3		

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
1295	Ethylene glycol monomethyl ether acetate; (EGMEA; 2-Methoxyethyl acetate)	110-49-6	0.1	0.3	20	200	ppm		PEL-TWA suppressed.
1296	Ethylene glycol monomethyl ether; (2-Methoxyethanol; EGME; Methyl Cellosolve(R))	109-86-4	0.1	0.35	2.5	200	ppm		PEL-TWA ignored.
1297	Ethylene glycol monopropyl ether; (Propyl cellosolve; Ektasolve EP)	2807-30-9	20	20	75	1,000	ppm	T-0, P-1	
1298	Ethylene glycol mono-sec-butyl ether	7795-91-7	3	10	60	350	mg/m^3		
1299	**Ethylene oxide; (Oxirane)**	**75-21-8**	1	5	**45**	**200**	ppm		**Interim AEGL-2, -3**
1300	Ethylene/vinyl acetate copolmer	24937-78-8	10	30	50	250	mg/m^3		TSCA, H&N listed, no toxicity data; MSDS states, MP and SG.
1301	Ethylenediamine dihydrochloride	333-18-6	0.1	0.3	2	60	mg/m^3		Human TClo skin ignored. No pchem data found.
1302	**Ethylenediamine, 1,2-**	**107-15-3**	9.7	9.7	**9.7**	**20**	ppm		**Final AEGL-2, -3**
1303	Ethylenediaminetetraacetic acid, disodium salt	139-33-3	60	150	500	500	mg/m^3		
1304	Ethylenediaminetetraacetic acid, disodium salt, dihydrate	6381-92-6	10	30	50	250	mg/m^3		RTECS listed. No toxicity data found.
1305	Ethylenediaminetetraacetic acid, ferric ammonium salt	21265-50-9	2.5	7.5	50	250	mg/m^3		Source of mouse toxicity data not traced.
1306	Ethylenediaminetetraacetic acid, tetrasodium salt, dihydrate	10378-23-1	7.5	25	150	500	mg/m^3		MSDS HHR =2 used to estimate toxicity.
1307	Ethylenediaminetetraacetic acid, tetrasodiumn salt; (Tetrasodium EDTA)	64-02-8	40	125	500	500	mg/m^3		MF corrected. MP =>300 C in HSDB.
1308	Ethylenediaminetetraacetic acid; (EDTA)	60-00-4	40	125	150	150	mg/m^3		
1309	Ethylenedinitrilo)tetra-2-propanol, 1,1',1'',1'''-(	102-60-3	15	50	350	500	mg/m^3		Rat oral LD > 500 mg/kg.
1310	**Ethyleneimine**	**151-56-4**	0.05	0.1	**4.6**	**9.9**	ppm	T-0, P-1	**Interim AEGL-2, -3**
1311	Ethylenethiourea; (2-Imidazolidinethione)	96-45-7	0.75	2.5	15	500	mg/m^3		Human 10 year TClo ignored.
1312	Ethylheptane, 4-	2216-32-2	3	10	60	350	ppm		Assumed HHR = 3 to estimate toxicity.
1313	Ethylhexyl acrolate, 2-; (Acrylic acid, 2-ethylhexyl ester)	103-11-7	0.5	1.5	10	10	ppm		Synonym corrected.
1314	Ethylhexyl bromide, 2-	18908-66-2	10	30	50	250	mg/m^3		TSCA listed, no toxicity or pchem data found. MSDS pchem data, not helpful, assumed non-volatile.

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
1315	**Ethylhexylchloroformate, 2-**	**24468-13-1**	0.04	0.125	**0.97**	**2.9**	ppm		**Interim AEGL-2, -3** added
1316	Ethylhexyloxy)ethanol, 2-(2-	1559-35-9	100	350	500	500	mg/m^3		Added.
1317	Ethylidene chloride, 1,1-; (1,1-Dichloroethane)	75-34-3	100	300	3,000	3,000	ppm		
1318	**Ethylidene norbornene**	**16219-75-3**	0.06	**0.2**	**100**	**500**	ppm		**ERPG-1, -2, -3**
1319	Ethylmagnesium chloride; (Chloroethyl magnesium)	2386-64-3	10	30	50	250	mg/m^3		TSCA listed, no toxicity data found, no HHR in MSDS. Used "N" for conc. dependence.
1320	**Ethyl-S-dimethylaminoethyl methylphosphonothiolate; (VX nerve agent)**	**50782-69-9**	5.00E-06	**1.6E-05**	**0.00027**	9.10E-04	ppm		**Final AEGL-1, -2, -3**
1321	Ethylthiocyanate	542-90-5	20	60	100	100	mg/m^3		
1322	Ethyltoluene, o-	611-14-3	500	500	500	500	mg/m^3		
1323	Ethyltoluene, p-	622-96-8	500	500	500	500	mg/m^3		
1324	Europium	7440-53-1	10	30	50	250	mg/m^3		TSCA listed, no toxicity data found.
1325	Europium nitrate; (Europium trinitrate)	10138-01-9	15	50	350	500	mg/m^3		
1326	Europium oxide	1308-96-9	20	60	400	500	mg/m^3		Rat oral LD50 > 5 g/kg.
1327	Europium(II) iodide	22015-35-6	10	30	50	250	mg/m^3		TSCA, HC&P listed, no toxicity data found.
1328	Farnesol	4602-84-0	25	75	500	500	mg/m^3		
1329	Fatty acids, tall-oil, polymers with glycerol, pentaerythritol and phthalic anhydride	66070-62-0	10	30	50	250	mg/m^3		
1330	Fenamiphos	22224-92-6	0.05	0.15	0.9	40	mg/m^3		
1331	Fensulfothion	115-90-2	0.01	0.03	2	12.5	mg/m^3		
1332	Fenthion	55-38-9	0.05	0.15	40	40	mg/m^3		
1333	Ferric ammonium citrate	1185-57-5	1.81	5.44	500	500	mg/m^3	**T-0, P-1**	Hygroscopic, light sensitive. X = 7 in MF to give MW.

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Based on applicable AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
1334	Ferric ammonium sulfate dodecahydrate	7783-83-7	8.64	25.9	43.2	200	mg/m^3		RTECS listed, no toxicity data. Fe soluble salts.
1335	Ferric ammonium sulfate; (Sulfuric acid, ammonium iron(3e+) salt (2:1:1))	10138-04-2	4.82	14.5	25	125	mg/m^3		As soluble iron salts.
1336	Ferric chloride	7705-08-0	2.9	2.9	10	125	mg/m^3	**P-1, P-2**	As soluble iron salts, 0.744 g/mL saturated solution @ 0 C.
1337	Ferric chloride hexahydrate	10025-77-1	4.84	75	100	100	mg/m^3		As soluble iron salts.
1338	Ferric fluoride	7783-50-8	4.95	12.5	100	495	mg/m^3	**T-0, P-1, P-2**	Fluoride concentration limits.
1339	Ferric hydroxide; (Iron(III) hydroxide)	1309-33-7	3.5	10	75	400	mg/m^3		Insoluble iron compound. Rabbit fed 870 mg/kg died.
1340	Ferric nitrate	10421-48-4	4.33	13	21.7	500	mg/m^3	**P-3**	Iron salts, soluble, as Fe toxicity data for nonahydrate ex HSDB.
1341	Ferric nitrate nonahydrate; (Iron(III) nitrate nonahydrate (1:3:9))	7782-61-8	7.24	40	250	500	mg/m^3	**P-1**	Iron salts, soluble, as Fe.
1342	Ferric phosphate	10045-86-0	2.7	8.1	13.5	60	mg/m^3		Iron salts, soluble, as Fe.
1343	Ferric sulfate; (Iron(III) sulfate)	10028-22-5	3.58	10.7	17.9	75	mg/m^3		Iron salts, soluble, as Fe.
1344	Ferrous ammonium sulfate	10045-89-3	5.09	15.3	25.4	125	mg/m^3		
1345	Ferrous carbonate	563-71-3	15	40	300	500	mg/m^3		Insoluble iron compound. HSDB toxicity data.
1346	Ferrous chloride	7758-94-3	2.27	6.81	11.3	200	mg/m^3		
1347	Ferrous disulfide; (Iron disulfide)	12068-85-8	2.15	6.44	10.7	50	mg/m^3		
1348	Ferrous hydroxide; (Iron(II) hydroxide)	18624-44-7	3.5	10	75	400	mg/m^3	**T-0, P-1, P-2**	OHMTADS states rabbit fed 890 mg/kg died. No other data found.
1349	Ferrous sulfamate	14017-39-1	2.79	8.38	14	60	mg/m^3	**T-0, P-1, P-2, P-3**	
1350	Ferrous sulfate	7720-78-7	2.72	8.16	13.6	350	mg/m^3		
1351	Ferrous sulfate heptahydrate	7782-63-0	4.98	14.9	25	500	mg/m^3		
1352	Fibrous glass; (Fiber glass; Glass frit; Synthetic vitreous fibers)	65997-17-3	5	15	60	500	mg/m^3		
1353	Fluenetil	4301-50-2	1.25	3.5	6	6	mg/m^3		

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Table 2: Protective Action Criteria (PAC) Rev 25
Based on applicable AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
1354	Fluoboric acid; (Tetrafluoroboric acid)	16872-11-0	2.89	7.5	60	289	mg/m^3	**P-1, P-2, P-3**	Fluoride concentration limits.
1355	Fluoranthene	206-44-0	7.5	25	150	500	mg/m^3	**T-0, P-1, P-2**	
1356	Fluorene, 9H-	86-73-7	7.5	25	150	500	mg/m^3		
1357	Fluorides (as F)	16984-48-8	2.5	7.5	12.5	250	mg/m^3	**P-1, P-2**	
1358	**Fluorine**	**7782-41-4**	0.1	**1.7**	**5.0**	**13**	ppm		**Interim AEGL-1, -2, -3**
1359	Fluoro-2-nitrobenzene, 1-; (o-Fluoronitrobenzene)	1493-27-2	7.5	25	150	500	mg/m^3		No toxicity data found. MSDS HHR = 2.
1360	Fluoro-4-nitrophenol, 2-	403-19-0	0.75	2.5	15	75	mg/m^3		**SAR.** ChemFinder also has CASRN = 21571-34-6, deleted as separate entry.
1361	Fluoro-6-nitrophenol, 2-	1526-17-6	0.75	2.5	15	75	mg/m^3		**SAR**, ChemFinder listed.
1362	Fluoroacetamide	640-19-7	1	3.5	5.8	5.8	mg/m^3		
1363	Fluoroacetic acid, sodium salt; (Sodium fluoroacetate)	62-74-8	0.05	0.15	0.5	2.5	mg/m^3		
1364	Fluoroacetic acid; (Fluoroethanoic acid)	144-49-0	0.075	0.25	0.47	2	mg/m^3		
1365	Fluoroacetyl chloride	359-06-8	2	6	10	10	mg/m^3		
1366	Fluoroaniline, p-	371-40-4	1.5	5	35	150	mg/m^3		Rat oral TDlo, unspecified time, not used.
1367	Fluorobenzene	462-06-6	125	350	500	500	mg/m^3		
1368	**Fluorosulfonic acid; (Fluorosulfuric acid)**	**7789-21-1**	2	**2**	**10**	**30**	mg/m^3		**ERPG-1, -2, -3**
1369	Fluorotrimethylsilane	420-56-4	2.5	7.5	50	250	ppm		Based on silicon fluoride.
1370	Fluorouracil	51-21-8	0.75	2.5	19	100	mg/m^3		
1371	Fonofos	944-22-9	0.1	0.3	1.3	200	mg/m^3	**T-0, P-1**	
1372	Food Red 15; (FD&C Red No. 19)	81-88-9	0.4	1.25	7.5	50	mg/m^3		
1373	Forane	26675-46-7	2,000	5,000	5,000	5,000	ppm		

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Table 2: Protective Action Criteria (PAC) Rev 25
Based on applicable AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
1374	**Formaldehyde**	**50-00-0**	0.3	**0.90**	**14**	**56**	ppm		**Interim AEGL-1, -2, -3**
1375	Formaldehyde cyanohydrin; (Hydroxyacetonitrile; Glycolonitrile)	107-16-4	0.125	0.35	2.57	4	ppm		
1376	Formamide	75-12-7	10	20	125	1,250	ppm		
1377	Formetanate hydrochloride	23422-53-9	3.5	10	18	18	mg/m^3		
1378	Formic acid	64-18-6	5	10	10	30	ppm		
1379	Formic acid, 2-propenyl ester; (Allyl formate)	1838-59-1	4	12.5	75	400	mg/m^3		
1380	Formic acid, butyl ester; (n-Butyl formate)	592-84-7	50	150	1,000	1,000	ppm		
1381	Formothion	2540-82-1	0.05	0.15	0.27	500	mg/m^3		
1382	Formparanate	17702-57-7	1.5	4	7.2	7.2	mg/m^3		
1383	Formylpiperidine, 1-	2591-86-8	4	12.5	75	75	ppm		
1384	Fosthietan	21548-32-3	0.75	2.5	4.7	4.7	mg/m^3		
1385	Fuberidazole	3878-19-1	0.6	2	3.3	125	mg/m^3		
1386	Fuel oil, residual	68476-33-5	10	30	200	500	mg/m^3	**T-0, P-1, P-2**	SG assumed = 0.8.
1387	Fuller's earth; (KAOLIN, 1332-58-7)	8031-18-3	2	6	125	500	mg/m^3	**T-0, P-2**	Used Kaolin (1332-58-7).
1388	Fulminic acid; (Carbyloxime)	506-85-4	0.6	1.5	12.5	60	ppm		No toxicity data found, pchem data ex HC&P.
1389	Fumaric acid	110-17-8	40	100	500	500	mg/m^3		
1390	**Furan**	**110-00-9**	1.25	4	**6.8**	**19**	ppm		**Interim AEGL-2, -3**
1391	**Furancarboxaldehyde, 2-; (Furfural)**	**98-01-1**	2	**2**	**10**	**100**	ppm		**ERPG-1, -2, -3**
1392	Furancarboxylic acid, ethyl ester, 2-; (Ethyl furoate)	614-99-3	0.25	0.75	5	25	ppm		
1393	Furfuryl alcohol	98-00-0	10	15	15	75	ppm	**T-0**	PEL-TWA suppressed.

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Table 2: Protective Action Criteria (PAC) Rev 25
Based on applicable AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
1394	Fusariotoxin T2; (T2-Trichothecene)	21259-20-1	0.0015	0.004	0.03	0.4	mg/m^3		
1395	Gadolinium	7440-54-2	500	500	500	500	mg/m^3		
1396	Gadolinium chloride hexahydrate	13450-84-5	40	75	75	75	mg/m^3		No pchem data found.
1397	Gadolinium hydroxide	16469-18-4	0.75	0.75	2.5	75	mg/m^3		**SAR**
1398	Gadolinium nitrate, solid	10168-81-7	15	50	350	500	mg/m^3	**T-0, P-1, P-2**	
1399	Gadolinium nitrite	z-0022	0.04	0.125	0.75	75	mg/m^3		**SAR**
1400	Gadolinium(III) oxide	12064-62-9	2	6	50	500	mg/m^3		Rat LD50 > 5000 mg/m^3.
1401	Gallic acid monohydrate	5995-86-8	15	50	350	500	mg/m^3		Not found in databases. MSDS LD50.
1402	Gallium	7440-55-3	10	30	50	250	mg/m^3		
1403	Gallium oxide	12024-21-4	1.5	5	40	500	mg/m^3	**T-0, P-1, P-2**	
1404	Gallium trichloride	13450-90-3	6	20	32	100	mg/m^3		
1405	Gallium trifluoride	7783-51-9	5.56	16.7	27.8	125	mg/m^3		
1406	Gasoline	8006-61-9	300	500	500	***1,500***	ppm		See LEL formatting note.
1407	Gelatin; (Pharmagel A)	9000-70-8	2.5	7.5	60	300	mg/m^3		
1408	Germane; (Germanium tetrahydride)	7782-65-2	0.2	0.6	10	150	ppm	**P-2**	
1409	Germanium	7440-56-4	0.0125	0.035	0.25	500	mg/m^3		
1410	Germanium oxide	1310-53-8	0.75	2	15	500	mg/m^3		
1411	Germanium tetrafluoride	7783-58-6	4.89	12.5	100	489	mg/m^3		Reacts with H2.O.
1412	Germanous acid	z-0023	2	6	40	200	mg/m^3		Used minimum germanium compound LD50.
1413	Giemsa's stain; (Blood stain)	51811-82-6	10	30	50	250	mg/m^3		No toxicity data found.

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
1414	Gluconic acid, D-	526-95-4	10	30	50	250	mg/m^3		No toxicity data found.
1415	Glucose monohydrate, D(+)-; (Dextrose)	14431-43-7	10	30	50	250	mg/m^3		No toxicity or pchem data found.
1416	Glucose, alpha-D-; (alpha-Dextrose)	492-62-6	0.4	1.25	7.5	500	mg/m^3		Glucose, CASRN = 50-99-7, toxicity data used.
1417	Glucose, D-; (Dextrose, anhydrous)	50-99-7	0.4	1.25	7.5	500	mg/m^3		Woman TDlo ex SAX, 20-fold lower value in RTECS ignored.
1418	Glutamic acid, L-; ((S)-(+)-Glutamic acid)	56-86-0	2	6	40	200	mg/m^3		
1419	**Gluteraldehyde**	**111-30-8**	0.05	**0.2**	**1**	**5**	ppm		**ERPG-1, -2, -3**
1420	Glycerine (mist); (Glycerol; Glycerin)	56-81-5	15	125	500	500	mg/m^3		
1421	Glycerine carbonate; (4-Hydroxymethyl-1,3-dioxolan-2-one)	931-40-8	10	30	50	250	mg/m^3		TSCA listed, no toxicity data found.
1422	Glyceryl monostearate; (Octadecanoic acid, monoester with 1,2,3-propanetriol)	31566-31-1	0.75	2.5	15	75	mg/m^3	**T-0, P-1, P-2**	
1423	Glycidaldehyde	765-34-4	0.025	0.075	0.5	25	ppm		
1424	Glycidol; (Oxiranemethanol)	556-52-5	2	4	30	150	ppm		Outdated PEL-TWA not used.
1425	Glycidoxypropyltrimethoxysilane; (3-(2,3-Epoxypropoxy) propyltrimethoxysilane)	2530-83-8	150	400	500	500	mg/m^3		
1426	Glycidyl acrylate; (2,3-Epoxypropyl acrylate)	106-90-1	0.125	0.4	2.5	12.5	ppm		Human skin contact TClo not used.
1427	Glycine; (Aminoacetic acid)	56-40-6	25	75	500	500	mg/m^3		
1428	Glycol carbonate; (Ethylene carbonate)	96-49-1	40	125	500	500	mg/m^3		
1429	Glycolic acid; (Hydroxyacetic acid)	79-14-1	75	250	500	500	mg/m^3	**T-0, P-1, P-2, P-3**	Rat LC50 = 7.1 ug/m3 suppressed, incompatible with other data, T-2 >T-3.
1430	Glycols, polyethylene, dimethyl ether	24991-55-7	75	200	500	500	mg/m^3		No pchem data found, SG = 1 assumed.
1431	Glycols, polyethylene, mono(p-nonylphenyl) ether; (Nonoxynol-9)	26027-38-3	0.025	0.075	0.6	60	mg/m^3		
1432	Glycoluril; (Acetyleneurea)	496-46-8	10	30	50	250	mg/m^3		No toxicity data found.
1433	Glyoxal	107-22-2	0.1	35	75	75	mg/m^3		

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
1434	Goethite; (Iron hydroxide oxide)	1310-14-1	5	7.5	12.5	250	mg/m^3		**SAR**
1435	Gold	7440-57-5	7.5	25	100	100	mg/m^3		
1436	Graphite; (Mineral carbon)	7782-42-5	2	6	10	500	mg/m^3		
1437	Grease; (Animal grease, inedible)	68153-81-1	10	30	50	250	mg/m^3		No toxicity data found.
1438	Guanidine, N-methyl-N'-nitro-N-nitroso-	70-25-7	0.125	0.35	2.5	40	mg/m^3		
1439	Guanidinehydrochloride	50-01-1	2	6	40	200	mg/m^3		SAX MW wrong.
1440	Hafnium	7440-58-6	0.5	1.5	2.5	50	mg/m^3		
1441	Hafnium oxide	12055-23-1	0.59	1.77	3	59	mg/m^3		
1442	Halon 1211; (Bromochlorodifluoromethane)	353-59-3	12.5	40	250	5,000	ppm		
1443	Hansa yellow	13515-40-7	10	30	50	250	mg/m^3		
1444	Helium	7440-59-7	65,000	65,000	2.30E+05	4.00E+05	ppm		Simple asphyxiant.
1445	Hematoxylin	517-28-2	0.075	0.25	2	10	mg/m^3	**T-0, P-1, P-2, P-3**	
1446	Heptachlor	76-44-8	0.05	0.15	35	35	mg/m^3	**T-0, P-1, P-2**	PEL-TWA suppressed
1447	Heptachlor epoxide; (Epoxyheptachlor)	1024-57-3	0.05	0.15	6	6	mg/m^3		
1448	Heptachlorodibenzofuran, 1,2,3,4,6,7,8-; (HeptaCDF, 1,2,3,4,6,7,8-)	67562-39-4	0.06	0.15	1.25	6	mg/m^3		
1449	Heptachlorodibenzofuran, 1,2,3,4,7,8,9- ; (HeptaCDF, 1,2,3,4,7,8,9-)	55673-89-7	0.075	0.25	1.5	7.5	mg/m^3		
1450	Heptachlorodibenzo-p-dioxin, 1,2,3,4,6,7,8-; (HeptaCDD, 1,2,3,4,6,7,8-)	35822-46-9	0.15	0.5	2.5	2.5	mg/m^3		
1451	Heptadecane	629-78-7	15	50	350	***1,500***	ppm		See LEL formatting note.
1452	Heptafluorobutyric acid	375-22-4	0.6	2	12.5	60	mg/m^3		
1453	Heptafluorotetrahydro-5-(nonafluorobutyl)furan, 2,2,3,3,4,4,5-; (Perfluoro-2-butyltetrahydrofuran; Fluorinert FC-75)	335-36-4	3.42	10.3	17.1	342	mg/m^3	**P-3**	Used fluoride concentration limits.

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
1454	Heptane	142-82-5	400	440	440	750	ppm	T-0	Suppressed PEL-TWA > REL-C.
1455	Heptanoic acid	111-14-8	5	15	100	600	ppm		
1456	Heptanol, 1-; (Heptyl alcohol)	111-70-6	3.5	10	500	500	mg/m^3		
1457	Heptene, 1-	592-76-7	1,500	5,000	40,000	2.00E+05	ppm		
1458	Hexacarbonylchromium; (Chromium hexacarbonyl)	13007-92-6	0.212	6	42.3	63.5	mg/m^3	T-0, P-1, P-2, P-3	Used chromium(VI) limits.
1459	Hexachloroacetone	116-16-5	0.4	1.25	7.5	200	mg/m^3		
1460	Hexachlorobenzene	118-74-1	0.002	0.006	1.5	200	mg/m^3	P-2	
1461	**Hexachlorobutadiene**	**87-68-3**	0.02	**1**	**3**	**10**	ppm		**ERPG-1, -2, -3**
1462	Hexachlorocyclohexane, alpha-; (Benzene hexachloride-alpha-isomer)	319-84-6	0.5	1.5	2.5	500	mg/m^3		Toxicity data updated.
1463	Hexachlorocyclohexane, beta-1,2,3,4,5,6-; (Benzene hexachloride, trans-alpha-)	319-85-7	0.5	1.5	2.5	500	mg/m^3		Toxicity data updated.
1464	Hexachlorocylopentadiene	77-47-4	0.01	0.0179	0.0179	0.0179	ppm		
1465	Hexachlorodibenzodioxin, 1,2,3,4,7,8-; (HexaCDD, 1,2,3,4,7,8-)	39227-28-6	4.00E-04	0.00125	0.0075	0.4	mg/m^3		
1466	Hexachlorodibenzofuran, 1,2,3,4,7,8-	70648-26-9	0.0025	0.0075	0.06	0.3	mg/m^3		
1467	Hexachlorodibenzofuran, 1,2,3,6,7,8-	57117-44-9	7.50E-04	0.0025	0.015	0.075	mg/m^3		
1468	Hexachlorodibenzofuran, 1,2,3,7,8,9-; (HexaCDF, 1,2,3,7,8,9-)	72918-21-9	0.04	0.125	0.75	4	mg/m^3		
1469	Hexachlorodibenzofuran, 2,3,4,6,7,8-	60851-34-5	5.00E-04	0.0015	0.01	0.05	mg/m^3		
1470	Hexachlorodibenzo-p-dioxin, 1,2,3,6,7,8-	57653-85-7	0.005	0.015	0.1	0.5	mg/m^3		SAX name differs from other sources, "4" changed to "6."
1471	Hexachlorodibenzo-p-dioxin, 1,2,3,7,8,9-; (HexaCDD, 1,2,3,7,8,9-)	19408-74-3	0.005	0.015	0.1	0.5	mg/m^3		
1472	Hexachloroethane	67-72-1	1	3	40	300	ppm		
1473	Hexachloronaphthalene	1335-87-1	0.2	0.2	0.2	2	mg/m^3		

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Bold green italics: 10% LEL ≤ PAC < 50% LEL; bold underlined pink italics: 50% LEL ≤ PAC < 100% LEL; bold double underlined red italcs: PAC ≥ LEL.

Table 2: Protective Action Criteria (PAC) Rev 25
Based on applicable AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
1474	Hexachlorophene	70-30-4	1	3	20	200	mg/m^3	**T-0, P-1**	
1475	Hexachloropropene	1888-71-7	0.15	0.4	3	15	ppm		
1476	Hexadecanamine, 1-	143-27-1	0.125	0.35	2.5	75	mg/m^3		
1477	Hexadecane	544-76-3	3	7.5	60	500	mg/m^3		
1478	Hexadecanoic acid; (Palmitic acid)	57-10-3	25	50	50	50	mg/m^3		
1479	Hexadecanol, 1-	36653-82-4	2.5	7.5	60	300	mg/m^3		
1480	Hexadecene, 1-	629-73-2	0.4	1.25	10	50	ppm		LD>10 g/kg, and LC>8500 mg/m^3.
1481	Hexadecylpyridinium chloride, 1-; (Cepacol chloride)	123-03-5	0.075	0.25	2	10	mg/m^3		
1482	Hexadecyltrimethylammonium chloride	112-02-7	2.5	7.5	50	250	mg/m^3		Mouse iv LD50 ex HSDB.
1483	Hexafluoro-2-propanol, 1,1,1,3,3,3-	920-66-1	7.5	25	150	750	ppm		
1484	**Hexafluoroacetone**	**684-16-2**	0.1	0.1	**0.20**	**80**	ppm		**Interim AEGL-2, -3** **ERPG-2, -3**
1485	Hexafluorobenzene	392-56-3	150	500	1,500	1,500	ppm		
1486	Hexafluorobutyne-2; (1,1,1,4,4,4-Hexafluoro-2-butyne)	692-50-2	0.3	1	6	35	ppm		
1487	Hexafluoroethane; (Freon 116; Perfluoroethane)	76-16-4	40,000	40,000	40,000	40,000	ppm		LC > 20 pph.
1488	**Hexafluoropropylene; (Hexafluoropropene)**	**116-15-4**	0.1	**40**	**91**	**480**	ppm		**Interim AEGL-1, -2, -3** **ERPG-1, -2, -3**
1489	Hexafluoropropylene-vinylidene fluoride polymer; (Viton)	9011-17-0	10	30	50	250	mg/m^3		TSCA listed, no toxicity data, polymer. MSDS not useful.
1490	Hexamethylcyclotrisiloxane	541-05-9	10	30	200	500	mg/m^3		Based on other silanes.
1491	Hexamethyldisilazane	999-97-3	12.5	40	250	350	mg/m^3		
1492	Hexamethyldisiloxane	107-46-0	40	125	300	300	ppm		
1493	Hexamethylene diisocyanate polymer	28182-81-2	7.5	25	200	500	mg/m^3		

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Table 2: Protective Action Criteria (PAC) Rev 25
Based on applicable AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
1494	Hexamethylene diisocyanate; (1,6-Diisocyanatohexane)	822-06-0	0.005	0.015	0.02	3.5	ppm	**P-2**	
1495	Hexamethyleneimine	111-49-9	15	40	300	500	mg/m^3		
1496	Hexamethylenetetraamine hydrochloride	58713-21-6	10	30	50	250	mg/m^3		
1497	Hexamethylenetetraamine; (Methenamine)	100-97-0	25	75	500	500	mg/m^3	**T-0, P-1**	
1498	Hexamethylphosphoramide	680-31-9	0.04	0.125	0.75	150	ppm		
1499	Hexamethyltetracosane, 2,6,10,15,19,23-; (Squalane)	111-01-3	5	15	100	500	ppm		No toxicity data found.
1500	Hexanal	66-25-1	12.5	35	200	200	ppm		
1501	**Hexane**	**110-54-3**	50	400	***3300***	***8600***	ppm		**Interim AEGL-2, -3** See LEL formatting note.
1502	Hexanediol diacrylate, 1,6-	13048-33-4	1	3.5	25	500	mg/m^3		
1503	Hexanediol, 1,6-; (Hexamethylene glycol)	629-11-8	50	150	500	500	mg/m^3		
1504	Hexanehexol, 1,2,3,4,5,6-; (Mannitol)	69-65-8	500	500	500	500	mg/m^3		
1505	Hexanenitrile	628-73-9	0.5	1.5	10	50	ppm		
1506	Hexanethiol, 1-; (N-Hexylmercaptan)	111-31-9	0.025	0.075	0.5	100	ppm		
1507	Hexanitrostilbene	20062-22-0	0.25	0.75	6	30	mg/m^3		TSCA listed, no pchem or toxicity data found. Used 4-Nitrostilbene, 4003-94-5, as surrogate.
1508	Hexanoic acid	142-62-1	5	15	100	500	mg/m^3		
1509	Hexanol, 2-; (2-Hydroxyhexane)	626-93-7	5	15	100	500	mg/m^3		
1510	Hexanol, n-; (n-Hexyl alcohol)	111-27-3	0.75	2	15	75	ppm		
1511	Hexanone, 2-; (Methyl n-butyl ketone)	591-78-6	5	10	***1,500***	***1,600***	ppm		See LEL formatting note.
1512	Hexanone, 3-; (Ethyl propyl ketone)	589-38-8	4	12.5	75	400	ppm		
1513	Hexanoyl chloride	142-61-0	1.5	5	35	150	mg/m^3		TSCA listed, no toxicity data found. MSDS states "corrosive lacrynator, HHR = 3 estimated.

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Table 2: Protective Action Criteria (PAC) Rev 25
Based on applicable AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
1514	Hexaphenylcyclotrisiloxane	512-63-0	7.5	25	150	500	mg/m^3		TSCA listed, no toxicity data. MSDS HHR = 2.
1515	**Hexene, 1-**	**592-41-6**	50	75	**500**	***5000***	ppm		**ERPG-2, -3** See LEL formatting note
1516	Hexylene glycol	107-41-5	10	10	25	350	ppm		
1517	**Hexyltrichlorosilane**	**928-65-4**	0.2	**0.60**	**7.3**	**33**	ppm		**Interim AEGL-1, -2, -3** added
1518	Holmium	7440-60-0	7.5	25	150	500	mg/m^3		
1519	Holmium trioxide	12055-62-8	10	30	50	250	mg/m^3		No toxicity data found.
1520	Humic acid, sodium salt	68131-04-4	2	6	40	200	mg/m^3		No pchem data found.
1521	**Hydrazine**	**302-01-2**	0.01	**0.10**	**13**	**35**	ppm	**T-0**	**Interim AEGL-1, -2, -3**
1522	Hydrazine hydrate, aqueous solutions	10217-52-4	0.035	0.1	0.75	7.5	mg/m^3	**T-0, P-1, P-2, P-3**	
1523	Hydrazine hydrate; (Hydrazine monohydrate)	7803-57-8	4.00E-04	1.00E-03	0.0075	50	mg/m^3	**T-0, P-1, P-2**	
1524	Hydrazine hydrochloride; (Hydrazine monochloride)	2644-70-4	0.5	1.5	10	50	mg/m^3	**T-0, P-1, P-2**	
1525	Hydrazine nitrate; (Hydrazinium nitrate)	13464-97-6	1	3	5	50	mg/m^3	**P-3**	
1526	Hydrazine sulfate	10034-93-2	0.6	2	15	250	mg/m^3		.
1527	Hydrazine, dihydrochloride	5341-61-7	3.5	10	75	400	mg/m^3	**T-0, P-1, P-2, P-3**	
1528	**Hydriodic acid; (Hydrogen iodide)**	**10034-85-2**	0.35	**1.0**	**22**	**120**	ppm		**Interim AEGL-1, -2, -3**
1529	**Hydrobromic acid; (Hydrogen bromide)**	**10035-10-6**	1	**1.0**	**22**	**120**	ppm		**Interim AEGL-1, -2, -3**
1530	Hydrogen	1333-74-0	***65,000***	***65,000***	***2.30E+05***	***4.00E+05***	ppm		Simple asphyxiant. See LEL formatting note.
1531	**Hydrogen chloride; (Hydrochloric acid)**	**7647-01-0**	0.5	**1.8**	**22**	**100**	ppm		**Final AEGL-1, -2, -3**
1532	**Hydrogen cyanide; (Hydrocyanic acid)**	**74-90-8**	1.9	**2.0**	**7.1**	**15**	ppm		**Final AEGL-1, -2, -3**
1533	**Hydrogen fluoride; (Hydrofluoric acid)**	**7664-39-3**	0.5	**1.0**	**24**	**44**	ppm	**T-0**	**Final AEGL-1, -2, -3**

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Table 2: Protective Action Criteria (PAC) Rev 25
Based on applicable AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
1534	**Hydrogen peroxide**	**7722-84-1**	1	**10**	**50**	**100**	ppm		**ERPG-1, -2, -3**
1535	Hydrogen peroxide - 30%	7722-84-1a	3.33	33.3	167	333	ppm	**T-0**	Pchem data ex ChemFinder.
1536	Hydrogen potassium phthalate; (Phthalic acid, monopotassium salt; Potassium acid phthalate; Potassium biphthalate)	877-24-7	12.5	40	250	500	mg/m^3		Rat LD50 > 3200 mg/kg.
1537	**Hydrogen selenide**	**7783-07-5**	0.05	0.1	**0.73**	**2.2**	ppm		**Interim AEGL-2, -3**
1538	**Hydrogen sulfide**	**7783-06-4**	0.51	**0.51**	**27**	**50**	ppm		**Interim AEGL-1, -2, -3**
1539	Hydrogenated terphenyl	61788-32-7	0.5	1.5	2.5	600	ppm	**P-3**	
1540	Hydroquinone	123-31-9	2	3	20	50	mg/m^3		
1541	Hydrotreated (mild & severe) heavy paraffinic distillates	64742-54-7	60	150	500	500	mg/m^3		
1542	Hydrotreated middle distillate (Petroleum base oil)	64742-46-7	3	7.5	60	300	mg/m^3		
1543	Hydroxy-2-methylpropanoic acid, 2-; (2-Methyllactic acid)	594-61-6	10	30	50	250	mg/m^3		No toxicity data found.
1544	Hydroxy-4'-hydroxyethoxy-2-methylpropiophenone, 2-	106797-53-9	15	50	350	500	mg/m^3		No pchem data found.
1545	Hydroxy-4-methyl-2-pentanone, 4-; (Diacetone alcohol)	123-42-2	50	50	50	***1,800***	ppm		See LEL formatting note.
1546	Hydroxyapatite; (Calcium hydroxyapatite)	1306-06-5	12.5	35	60	500	mg/m^3		**SAR**
1547	Hydroxybenezenesulfonic acid, 4-; (4-Hydroxyphenylsulfonic acid)	98-67-9	25	75	500	500	mg/m^3		
1548	Hydroxybenzoic acid, 4-; (p-Salicylic acid)	99-96-7	20	60	400	500	mg/m^3		Added.
1549	Hydroxybenzotriazole, 1-; (1-Hydroxybenzotriazole hydrate)	2592-95-2	40	125	500	500	mg/m^3		ChemFinder pchem data.
1550	Hydroxyethyl acrylate, 2-; (Acrylic acid, 2-hydroxyethyl ester)	818-61-1	0.35	1	6	50	ppm		
1551	Hydroxyethyl methacrylate, 2-	868-77-9	0.1	0.3	2	500	mg/m^3		
1552	Hydroxyethyl)-1-piperazineethanesulfonic acid, 4-(2-	7365-45-9	1.25	4	25	125	mg/m^3		Quail LD50 > 316 mg/kg.
1553	Hydroxyethylenediaminetriacetic acid, N-	150-39-0	1.25	4	30	150	mg/m^3		

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
1554	Hydroxyethylidene-1,1-diphosphonic acid, 1-; (Hydroxyethylidine bisphosphonic acid, 1-)	2809-21-4	0.15	0.5	3.5	500	mg/m^3	**T-0, P-1, P-2**	
1555	Hydroxylamine	7803-49-8	0.25	0.75	5	25	mg/m^3		
1556	Hydroxylamine chloride; (Hydroxylamine hydrochloride)	5470-11-1	10	35	60	60	mg/m^3		
1557	Hydroxylamine nitrate	13465-08-2	7.62	15.2	39.6	150	mg/m^3	**P-2**	Molecular weight-adjusted nitric acid limits.
1558	Hydroxylamine sulfate; (Oxammonium sulfate)	10039-54-0	4	10	75	400	mg/m^3		
1559	Hydroxymethanesulfinic acid, monosodium salt; (Formaldehyde hydrosulfite)	149-44-0	15	50	350	500	mg/m^3		
1560	Hydroxy-N-phenylbenzamide, N-; (Phenylbenzohydroxamic acid, N-)	304-88-1	10	30	50	250	mg/m^3		TSCA listed, no toxicity or pchem data found. MSDS data.
1561	Hydroxyphenyl)benzothiazole, 2-(2-	3411-95-8	35	100	500	500	mg/m^3		Mouse LDlo > 4 g/kg.
1562	Hydroxyphenylacetic acid, alpha-	90-64-2	15	50	350	500	mg/m^3		
1563	Hydroxypropyl cellulose	9004-64-2	40	125	500	500	mg/m^3		MF, MW ex ChemFinder.
1564	Hydroxyquinoline sulfate, 8-	134-31-6	5	15	100	500	mg/m^3		
1565	Hypophosphorous acid-d3; (Hydrophosphorus acid-d3 solution, 50 wt.% in D2O)	57583-56-9	10	30	50	250	ppm	**T-0, P-1, P-2, P-3**	Not found in databases. MW, MF, SG from MSDS, no HHR. Used phosphonic acid, CASRN 6303-21-5 PAC.
1566	Hypophosphorus acid; (Phosphonic acid)	6303-21-5	10	30	50	250	mg/m^3		
1567	Imidazole	288-32-4	4	12.5	75	100	mg/m^3		
1568	Imidazole hydrochloride	1467-16-9	7.5	25	150	500	mg/m^3		MSDS HHR = 2.
1569	Iminodiacetic acid	142-73-4	1	3	20	100	mg/m^3		
1570	Iminodiacetic acid, disodium salt hydrate	17593-73-6	35	100	500	500	mg/m^3		Not found in databases. ChemFinder irritation and pchem data.
1571	Indan	496-11-7	40	125	500	500	mg/m^3		
1572	Indene	95-13-6	5	5	5	300	ppm	**P-1, P-2**	
1573	Indeno(1,2,3-cd)pyrene	193-39-5	0.15	0.5	3.5	15	mg/m^3		

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
1574	Indigo carmine; (FD&C blue No 2)	860-22-0	20	60	75	75	mg/m^3		
1575	Indium	7440-74-6	0.1	0.1	0.6	3.5	mg/m^3		
1576	Indium oxide (vapor)	1312-43-2b	0.107	0.321	100	500	mg/m^3	**P-2, P-3**	
1577	Indium sulfate	13464-82-9	0.225	0.676	1.13	4	mg/m^3		
1578	Indium trichloride	10025-82-8	0.193	0.578	1	1	mg/m^3		
1579	Indium(III) oxide	1312-43-2a	0.121	0.363	0.605	500	mg/m^3	**P-2**	
1580	Indole-3-carboxaldehyde, 1H-; (3-Formylindole)	487-89-8	0.75	2.5	15	75	ppm		
1581	Iodic acid	7782-68-5	0.139	1.39	1.39	19.9	mg/m^3	**T-0, P-1, P-2, P-3**	Concentration limits as Iodine.
1582	Iodide, Ammonium, tetraethyl-; (Tetraethylammoniumiodide; Ammonium,-tetraethyl-,-iodide-)	68-05-3	0.203	2.03	2.03	42.6	mg/m^3	**T-0, P-1, P-2, P-3**	Concentration limits as Iodine.
1583	**Iodine**	**7553-56-2**	0.01	**0.1**	**0.5**	**5**	ppm		**ERPG-1, -2, -3**
1584	Iodine 125	17144-19-3	0.01	0.1	0.5	5	ppm		Used Iodine PAC.
1585	Iodobenzene	591-50-4	0.161	1.61	26.8	26.8	mg/m^3	**T-0, P-1, P-2, P-3**	
1586	Iodoethane; (Ethyl iodide)	75-03-6	0.0123	0.123	0.123	2.5	ppm	**P-1, P-2, P-3**	
1587	Iodoheptafluoropropane, 1-; (Heptafluoropropyl iodide)	754-34-7	0.0233	0.233	0.233	4.66	ppm	**P-1, P-2, P-3**	BP and SG ex ChemFinder.
1588	Iodopentane, 1-	628-17-1	0.156	1.56	1.56	25.3	mg/m^3	**T-0, P-1, P-2, P-3**	
1589	Iotalamic acid	2276-90-6	0.161	1.61	1.61	80.9	mg/m^3	**T-0, P-1, P-2, P-3**	
1590	Iridium	7439-88-5	6	20	125	500	mg/m^3		HSDB has three entries, data are conflicting, rat oral LD50 = 4.67 mg/kg or 1560 mg/kg.
1591	Iron	7439-89-6	1.5	4	30	500	mg/m^3		
1592	Iron carbide	12011-67-5	10.7	16.1	26.8	500	mg/m^3	**T-0, P-3**	Treated as insoluble Fe fume.
1593	Iron hydroxide oxide	20344-49-4	15.9	23.9	40	500	mg/m^3	**P-1, P-2, P-3**	Treated as insoluble Fe fume.

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
1594	Iron oxide; (Ferric oxide)	1309-37-1	10	15	40	500	mg/m^3	T-0	PEL-TWA ignored.
1595	**Iron pentacarbonyl**	**13463-40-6**	0.06	0.06	**0.060**	**0.18**	ppm		**Final AEGL-2, -3**
1596	Iron(II) chloride tetrahydrate	13478-10-9	3.56	3.56	7.5	40	mg/m^3		
1597	Iron(II) perchlorate hexahydrate	13520-69-9	6.33	19	31.6	150	mg/m^3		Not found in databases, assumed MF, calculated MW.
1598	Iron(II,III) oxide; (Ferrosoferric oxide; Iron(III) oxide)	1317-61-9	13.8	20.7	35	500	mg/m^3	T-0, P-1, P-2, P-3	No toxicity data found.
1599	Iron(III) perchlorate	13537-24-1	6.34	19	31.7	150	mg/m^3		TSCA listed, no toxicity or pchem data found. Assumed soluble.
1600	Iron(III) sulfate heptahydrate	35139-28-7	4.98	14.9	25	500	mg/m^3		Iron(II) found under CASRN = 7782-63-0, used its toxicity data.
1601	Isoamyl acetate; (Isopentyl acetate)	123-92-2	100	100	200	***1,000***	ppm		See LEL formatting note.
1602	Isoamyl alcohol (primary); (3-Methyl-1-butanol)	123-51-3	100	125	125	500	ppm		
1603	Isoamyl alcohol (secondary); (3-Pentanol)	584-02-1	100	125	125	500	ppm		Used limits for isoamyl alcohol, 123-51-3.
1604	Isoamyl nitrite; (Isopentyl nitrite)	110-46-3	3	7.5	60	300	ppm		
1605	Isobenzan	297-78-9	0.5	1.5	2	2	mg/m^3		
1606	Isobutanol-2-amine	124-68-5	0.03	0.075	0.6	500	mg/m^3		
1607	Isobutyl acetate	110-19-0	150	150	250	***1,300***	ppm		See LEL formatting note.
1608	Isobutyl alcohol	78-83-1	100	***1,250***	***1,600***	***1,600***	ppm		See LEL formatting note.
1609	Isobutyl chloride; (1-Chloro-2-methylpropane)	513-36-0	0.4	1.25	7.5	40	ppm		No toxicity data found.
1610	**Isobutyl Chloroformate**	**543-27-1**	0.2	0.6	**2.2**	**6.7**	ppm		**Interim AEGL-2, -3** Synonym deleted.
1611	Isobutyl isobutyrate	97-85-8	150	500	500	500	mg/m^3		
1612	Isobutylamine	78-81-9	2	2	6	35	ppm	T-0, P-1	
1613	Isobutyraldehyde	78-84-2	25	300	1,500	1,500	ppm		

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Table 2: Protective Action Criteria (PAC) Rev 25
Based on applicable AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
1614	Isobutyric acid	79-31-2	0.3	1	6	35	ppm		
1615	Isobutyric anhydride; (2-Methylpropionic anhydride)	97-72-3	0.1	0.3	2	10	ppm		No toxicity data found. Rat LC50 based on HHR = 3.
1616	**Isobutyronitrile**	**78-82-0**	8	**10**	**18**	**68**	ppm		**Interim AEGL-2, -3** **ERPG-1, -2, -3**
1617	Isocyanate-bearing waste (as CNs N.O.S.)	z-0024	5	15	25	25	mg/m^3	**P-1, P-2**	
1618	**Isocyanatoethyl methacrylate, 2-**	**30674-80-7**	0.02	0.06	**0.1**	**1**	ppm		**ERPG-2, -3**
1619	Isocyanic acid	75-13-8	0.04	0.1	0.75	4	ppm		Not found in databases. Lewis' Toxicology states "irritant to skin and eyes … will blister skin on contact."
1620	Isocyanic acid, 3,4-dichlorophenyl ester; (3,4-Dichlorophenyl isocyanate)	102-36-3	2.5	7.5	14	500	mg/m^3		SAX and RTECS tox data conflict.
1621	Isodrin	465-73-6	1.25	4	7	7	mg/m^3		
1622	Isonate 181 MDI prepolymer	z-0113	0.2	0.75	6	75	mg/m^3	**T-0, P-1, P-2, P-3**	Used 25% 26447-40-5, 25% 101-68-8, 25% 68092-58-0/, 25% z-0112).
1623	Isooctane; (2,2,4-Trimethylpentane)	540-84-1	300	385	385	***1,000***	ppm		PEL-TWA suppressed because > REL-C. Used octane, all isomers, limits. See LEL formatting note.
1624	Isopentane; (Ethyldimethylmethane; 2-Methylbutane)	78-78-4	600	600	610	***20,000***	ppm		See LEL formatting note.
1625	Isophorone	78-59-1	4	4	5	200	ppm	**T-0, P-1**	PEL-TWA suppressed.
1626	Isophorone diisocyanate	4098-71-9	0.005	0.02	0.135	1.5	ppm	**P-3**	
1627	Isophthalic acid; (Phthalic acid, m isomer)	121-91-5	10	30	50	500	mg/m^3		
1628	**Isoprene**	**78-79-5**	2	**5**	***1000***	***4000***	ppm		**ERPG-1, -2, -3** See LEL formatting note.
1629	Isopropyl acetate	108-21-4	100	200	200	***1,800***	ppm	**T-0**	See LEL formatting note. Suppressed PEL-TWA > TLV-STEL.
1630	Isopropyl alcohol	67-63-0	400	400	400	***2,000***	ppm		See LEL formatting note.
1631	Isopropyl chloride; (2-Chloropropane)	75-29-6	50	150	***15,000***	***15,000***	ppm		See LEL formatting note.
1632	**Isopropyl chloroformate; (Isopropyl chlorocarbonate)**	**108-23-6**	0.15	0.4	**3.3**	**10**	ppm		**Interim AEGL-2, -3** **ERPG-2, -3**

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No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
1633	Isopropyl ether; (Diisopropyl ether)	108-20-3	250	310	310	***1,400***	ppm	**T-0**	See LEL formatting note. Suppressed PEL-TWA > TLV-STEL.
1634	**Isopropyl methanefluoro-phosphonate; (Sarin; GB)**	**107-44-8**	1.50E-04	**0.00048**	**0.0060**	**0.022**	ppm		**Final AEGL-1, -2, -3**
1635	Isopropyl nitrate	1712-64-7	1.5	5	150	750	ppm		RTECS replaced SAX data.
1636	Isopropyl titanate(IV); (Titanium(IV) isopropoxide)	546-68-9	30	75	500	500	mg/m^3		
1637	Isopropylamine; (2-Propanamine)	75-31-0	5	10	150	750	ppm		
1638	Isopropylmagnesium chloride; (Chloro(1-methylethyl)magnesium)	1068-55-9	1	3	20	100	mg/m^3		No toxicity data found. Rat LD50 estimated from other Mg compounds.
1639	Isopropylmethylpyrazolyl dimethylcarbamate; (Isolan)	119-38-0	1	3.5	5.6	5.6	mg/m^3		
1640	Isopropyltoluene, 4-; (p-Cymene)	99-87-6	75	250	500	500	mg/m^3		Added.
1641	Jeffamine M-600	77110-54-4	10	30	50	250	mg/m^3		Not found in databases, no MSDS, assumed nonvolatile.
1642	**Jet fuels, (JP-5 and JP-8)**	**70892-10-3**	200	**290**	**1100**	1,100	mg/m^3		**Interim AEGL-1, -2** Also CASRN = 8008-20-6.
1643	Kaolin; (Aluminum silicate hydroxide)	1332-58-7	5	6	125	500	mg/m^3		
1644	Kepone; (Chlordecone)	143-50-0	1.00E-03	0.003	0.6	40	mg/m^3		
1645	**Kerosene**	**8008-20-6**	200	**290**	**1100**	1,100	mg/m^3		**Interim AEGL-1, -2**
1646	**Ketene; (Carbomethene, Ethenone)**	**463-51-4**	0.19	**0.19**	**0.66**	**2.0**	ppm		**Interim AEGL-1, -2, -3**
1647	Krypton	7439-90-9	65,000	65,000	2.30E+05	4.00E+05	ppm		Simple asphyxiant.
1648	Lactic acid	50-21-5	5	15	100	500	mg/m^3	**T-0, P-1, P-2**	
1649	Lactic acid, sodium salt, DL-; (Propanoic acid, 2-hydroxy-, monosodium salt)	312-85-6	10	30	50	250	mg/m^3		TSCA listed, no toxicity or pchem data found.
1650	Lactonitrile	78-97-7	3.5	10	18	150	mg/m^3		
1651	Lactose, beta-D; (beta-D-Glucopyranose, 4-O-beta-D-galactopyranosyl-)	5965-66-2	10	30	50	250	mg/m^3		No toxicity data found.
1652	Lanthanum	7439-91-0	10	30	50	250	mg/m^3		

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Based on applicable AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
1653	Lanthanum alizarin	z-0026	10	30	50	250	mg/m^3		
1654	Lanthanum boride	12008-21-8	10	30	50	250	mg/m^3	**T-0, P-1, P-2, P-3**	
1655	Lanthanum carbonate	6487-39-4	10	30	50	250	mg/m^3		
1656	Lanthanum chloride	10099-58-8	6	20	150	500	mg/m^3		
1657	Lanthanum fluoride	13709-38-1	8.59	25.8	43	500	mg/m^3	**P-1, P-2, P-3**	
1658	Lanthanum hydroxide	14507-19-8	0.2	0.75	2	2.5	mg/m^3		**SAR**
1659	Lanthanum nitrate	10099-59-9	0.75	2.5	15	500	mg/m^3	**T-0, P-1, P-2**	
1660	Lanthanum oxide	1312-81-8	10	30	200	500	mg/m^3	**T-0, P-1, P-2**	
1661	Lanthanum phosphate	14913-14-5	0.3	0.75	3	3	mg/m^3		**SAR**
1662	Lanthanum(III) nitrate hexahydrate	10277-43-7	1.5	5	35	150	mg/m^3		
1663	Laromin C 260; (bis(4-Amino-3-methylcyclohexyl) methane; Dimethyldicyane)	6864-37-5	1.5	5	35	150	mg/m^3		Added, pchem data ex Sigma-Aldrich.
1664	Lauryl sulfate; (Dodecyl sulfate)	151-41-7	5	15	100	500	mg/m^3		
1665	Lead	7439-92-1	0.05	0.15	0.25	100	mg/m^3		
1666	Lead acetate(II), trihydrate; (Bis(acetato)trihydroxytrilead)	6080-56-4	40	125	500	500	mg/m^3	**T-0, P-1, P-2, P-3**	
1667	Lead acetate, basic; (Lead subacetate)	1335-32-6	35	100	500	500	mg/m^3	**T-0, P-1, P-2, P-3**	
1668	Lead acetate; (Lead diacetate)	301-04-2	4	10	75	500	mg/m^3	**T-0, P-1, P-3**	
1669	Lead acid arsenate; (Dibasic lead arsenate)	7784-40-9	0.0463	0.139	23.2	23.2	mg/m^3	**T-0, P-1, P-2, P-3**	Concentration limits as arsenic.
1670	Lead arsenate	3687-31-8	0.06	0.18	20	30	mg/m^3	**T-0, P-1, P-2**	Concentration limits as arsenic.
1671	Lead bromide	10031-22-8	0.0886	0.266	0.443	177	mg/m^3		
1672	Lead carbonate	598-63-0	0.0645	0.193	4	129	mg/m^3	**P-3**	

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
1673	Lead chloride	7758-95-4	0.0671	0.201	7.5	134	mg/m^3		
1674	Lead chromate	7758-97-6	0.0311	0.15	1	93.2	mg/m^3	**P-1**	
1675	Lead dioxide	1309-60-0	0.0577	3	20	115	mg/m^3	**P-1**	
1676	Lead fluoborate	13814-96-5	0.0919	0.276	0.459	184	mg/m^3		Only stable in aqueous solution.
1677	Lead fluoride	7783-46-2	0.0592	0.178	15	118	mg/m^3		
1678	Lead hydroxide	19783-14-3	0.0582	0.175	0.3	116	mg/m^3	**P-3**	
1679	Lead iodide	10101-63-0	0.111	0.334	0.556	222	mg/m^3		
1680	Lead nitrate	10099-74-8	0.0799	0.6	4	160	mg/m^3		
1681	Lead nitrite	13826-65-8	0.0722	0.217	0.361	144	mg/m^3	**P-3**	
1682	Lead oxalate	814-93-7	0.0712	0.214	0.356	142	mg/m^3	**P-3**	
1683	Lead oxide; (Lead monoxide)	1317-36-8	0.0539	0.0539	0.0539	108	mg/m^3		
1684	Lead phosphate	7446-27-7	0.0653	0.196	30	131	mg/m^3	**P-3**	
1685	Lead sulfate; (Sulfuric acid, lead(2+) salt (1:1))	7446-14-2	0.0732	4	30	146	mg/m^3	**P-1**	OHMTADS, TSCA, ChemFinder list CASRN = 15739-80-7, deleted as a separate entry.
1686	Lead sulfide	1314-87-0	0.0577	0.173	115	115	mg/m^3	**P-2, P-3**	
1687	Lead tetroxide	1314-41-6	0.0551	0.165	0.276	110	mg/m^3		
1688	Lead(II) arsenite	10031-13-7	0.0281	0.0843	0.14	14	mg/m^3		Concentration limits as arsenic. REL-C suppressed.
1689	Lead(II) perchlorate hydrate	13453-62-8	0.111	0.333	0.555	222	mg/m^3	**P-3**	Not found in databases. ChemFinder pchem data.
1690	Leco set 7007 powder	z-0027	10	30	50	250	mg/m^3		Mixture: 80-62-6 (94-96%), 2082-81-7 (3%), 5995-42-6 ()>8%), 99-97-8 (0.7%).
1691	Leptophos; (Fosvel)	21609-90-5	6	15	30	30	mg/m^3		
1692	**Lewisite 2; (Bis(2-chlorovinyl)chloroarsine)**	**40334-69-8**	0.12	0.12	**0.12**	**0.74**	mg/m^3		**Interim AEGLs-2,-3**

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
1693	**Lewisite 3; (Tris(2-chlorovinyl)arsine)**	**40334-70-1**	0.12	0.12	**0.12**	**0.74**	mg/m^3		**Interim AEGLs-2,-3**
1694	Lignosulfonate (aqueous)	8062-15-5	50	150	500	500	mg/m^3	**T-0, P-1**	
1695	Limonene, d-	5989-27-5	20	60	100	350	ppm	**T-0, P-1, P-2**	WEEL CASRN = 138-86-3. HSDB: (L)-Limonene for CASRN = 5989-54-8. H&N has both.
1696	Lindane; (gamma-Benzenehexachloride)	58-89-9	0.5	1.5	50	50	mg/m^3		
1697	Linseed oil	8001-26-1	0.5	1.5	10	60	mg/m^3		
1698	Liquified petroleum gas; (L.P.G.)	68476-85-7	1,000	***2,000***	***2,000***	***2,000***	ppm		See LEL formatting note.
1699	Lithium	7439-93-2	4	12.5	75	400	mg/m^3	**T-0, P-1, P-2**	
1700	Lithium acetate dihydrate	6108-17-4	12.5	35	250	500	mg/m^3		Used Li acetate, CASRN = 546-89-4, mouse LDlo.
1701	Lithium aluminate	12003-67-7	12.2	36.6	61.1	300	mg/m^3		TSCA listed, no toxicity data.
1702	Lithium aluminum oxide; (Lithium aluminate)	11089-89-7	2.44	7.33	12.5	60	mg/m^3	**T-0, P-1, P-2, P-3**	Used Al insoluble compound limits, but suppressed PEL-TWA.
1703	Lithium aluminum silicate; (Petalite)	1302-66-5	11.4	34.1	56.8	250	mg/m^3	**T-0, P-1, P-2, P-3**	Used Al insoluble compound limits, but suppressed PEL-TWA.
1704	Lithium azide	19597-69-4	10	30	50	250	mg/m^3	**P-1, P-2, P-3**	No toxicity data found, changed "Y" to "N."
1705	Lithium borohydride; (Lithium tetrahydroborate)	16949-15-8	4.03	12.1	12.1	40	mg/m^3	**P-2, P-3**	Suppressed unspecified mammalian LC50.
1706	Lithium bromide	7550-35-8	1	2	15	500	mg/m^3	**P-1**	
1707	Lithium carbonate	554-13-2	0.2	0.6	4	200	mg/m^3		
1708	Lithium chloride	7447-41-8	0.5	1.5	10	60	mg/m^3		
1709	Lithium chromate; (Lithium chromate dihydrate)	14307-35-8	0.0125	1	7.5	37.5	mg/m^3	**P-1, P-2**	Assumed to be water soluble.
1710	Lithium deuteride	13587-16-1	0.025	0.025	0.1	0.5	mg/m^3	**T-0, P-1**	Used Lithium hydride limits.
1711	Lithium diisopropylamide; (LDA)	4111-54-0	10	30	50	250	mg/m^3		TSCA listed, MF differs from ChemFinder, no toxicity data found.
1712	Lithium fluoride	7789-24-4	3.41	10.2	17.1	341	mg/m^3		

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
1713	**Lithium hydride**	**7580-67-8**	0.025	**0.025**	**0.100**	**0.500**	mg/m^3		**ERPG-1, -2, -3**
1714	Lithium hydroxide	1310-65-2	0.05	0.15	1	100	mg/m^3		
1715	Lithium hydroxide monohydrate	1310-66-3	0.05	0.15	1	100	mg/m^3		Not found in databases, used LiOH, CASRN 1310-65-2, values.
1716	Lithium iodide	10377-51-2	10	30	50	250	mg/m^3		TSCA, HC&P, H&N listed, no toxicity data found.
1717	Lithium metaborate, anhydrous	13453-69-5	9.2	27.6	46	200	mg/m^3	**T-0, P-1, P-2, P-3**	MW and MF ex HC&P. No toxicity data found.
1718	Lithium molybdate	13568-40-6	9.06	9.06	9.06	500	mg/m^3	**P-1, P-2, P-3**	Molybdenum soluble compound limits.
1719	Lithium niobium oxide; (Lithium niobate)	12031-63-9	60	200	500	500	mg/m^3	**T-0, P-1, P-2**	
1720	Lithium nitrate	7790-69-4	0.5	1.5	10	50	mg/m^3	**T-0, P-1, P-2, P-3**	
1721	Lithium nitride	26134-62-3	10	30	50	250	mg/m^3	**P-1, P-2, P-3**	Reacts with water. No toxicity data found, changed "Y" to "N."
1722	Lithium nitrite	13568-33-7	0.025	0.06	0.4	40	mg/m^3		HC&P: LiNO2.H2O MW = 127.96, CASRN = 13568-33-7. TSCA: Li.H.NO2 SAR.
1723	Lithium perchlorate, anhydrous	7791-03-9	5.00E-04	0.0015	0.01	0.06	mg/m^3		IRIS LOEL used, no other toxicity data found.
1724	Lithium silicon	68848-64-6	4	12.5	75	400	mg/m^3	Added.	Added. No MSDS found, no useful toxicity data found. Used revised Lithium limits.
1725	Lithium stearate	4485-12-5	60	150	500	500	mg/m^3		Probable human LD = 0.5-5 g/kg.
1726	Lithium sulfate	10377-48-7	0.15	0.5	3.5	500	mg/m^3		
1727	Lithium tetraborate	12007-60-2	31.3	93.9	156	500	mg/m^3	**T-0, P-1, P-2, P-3**	TSCA, H&N, ChemFinder listed, no toxicity data found. MF in ExPub
1728	Lithium tetraborate pentahydrate	1303-94-2	12	36	60	300	mg/m^3	**T-0, P-1, P-2, P-3**	MF, MW by analogy with Na tetraborate pentahydrate.
1729	Lithium tetrahydroaluminate(1-); (Lithium aluminum hydride)	16853-85-3	2.81	2.81	7.5	35	mg/m^3		Al soluble salt.
1730	Lithium triethylborodeuteride; (Super-deuteride)	74540-86-6	10	30	50	250	mg/m^3		Not found in databases. MW, MF, SG ex ChemFinder.
1731	Lithium triethylborohydride; (Super-hydride)	22560-16-3	1.5	5	35	150	mg/m^3		Not listed in databases. MSDS gives HHR = 3.
1732	Lubricating oil, rerefined	68476-77-7	10	30	50	250	mg/m^3		TSCA listed, no toxicity or pchem data.

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
1733	Lutetium	7439-94-3	1.5	5	35	150	mg/m^3		TSCA listed, no toxicity data. SRS HHR = 3.
1734	Lutetium oxide	12032-20-1	10	30	50	250	mg/m^3		
1735	Lutidine, 2,6-; (2,6-Dimethylpyridine)	108-48-5	75	200	1,500	7,500	ppm		
1736	Magnesium	7439-95-4	1.25	4	30	150	mg/m^3		Toxicity data added.
1737	Magnesium acetate tetrahydrate	16674-78-5	0.75	2.5	20	100	mg/m^3		Not found in databases, used Mg acetate, CASRN = 142-72-3.
1738	**Magnesium aluminum phosphide**	**z-0116**	0.67	0.67	**0.67**	**1.2**	ppm		**Final AEGL-2, -3**
1739	Magnesium carbonate hydroxide	7760-50-1	10	30	50	250	mg/m^3		TSCA listed, no toxicity data, MF, MW from H&N.
1740	Magnesium carbonate; (Magnesite)	546-93-0	15	45	200	500	mg/m^3		Toxicity data added.
1741	Magnesium carbonate-magnesium hydroxide, pentahydrate	39409-82-0	48.8	146	250	500	mg/m^3	**P-1, P-2**	Not found in databases. MF, MW ex ChemFinder. MSDS PEL-TWA.
1742	Magnesium chloride	7786-30-3	12.5	40	300	500	mg/m^3	**T-0, P-1, P-2**	
1743	Magnesium chloride hexahydrate	7791-18-6	75	250	500	500	mg/m^3		
1744	Magnesium ethoxide	2414-98-4	47.1	141	235	500	mg/m^3		TSCA listed, no toxicity or pchem data.
1745	Magnesium fluoride	7783-40-6	4.1	12.3	20.5	410	mg/m^3		
1746	Magnesium formate	557-39-1	10	30	50	250	mg/m^3		TSCA listed, no data found. Changed "Y" to "N".
1747	Magnesium hydroxide	1309-42-8	75	200	500	500	mg/m^3		
1748	Magnesium iodate tetrahydrate	7790-32-1	10	30	50	250	mg/m^3		TSCA listed, no toxicity data. MSDS solid.
1749	Magnesium nitrate; (Magnesium(II) nitrate (1:2))	10377-60-3	10	30	50	250	mg/m^3		
1750	Magnesium oxide	1309-48-4	15	30	150	500	mg/m^3	**T-0**	
1751	**Magnesium phosphide**	**12057-74-8**	0.2	0.6	**1.0**	**1.8**	ppm		**Final AEGL-2, -3**
1752	Magnesium silicate hydrate	1343-90-4	10	30	50	250	mg/m^3		

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Table 2: Protective Action Criteria (PAC) Rev 25
Based on applicable AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
1753	Magnesium silicate; (Florisil)	1343-88-0	10	30	50	500	mg/m^3		Human LD > 15 g/kg.
1754	Magnesium sulfate (1:1)	7487-88-9	0.5	1.5	10	125	mg/m^3		
1755	Magnesium sulfate heptahydrate	10034-99-8	5	15	100	500	mg/m^3		
1756	Magnesium(II) nitrate (1:2), hexahydrate	13446-18-9	20	60	500	500	mg/m^3		CASRN changed from 10213-15-7.
1757	Malathion	121-75-5	1	3	5	250	mg/m^3	**T-0, P-1, P-2**	PEL-TWA suppressed.
1758	Maleic acid	110-16-7	3	7.5	60	300	mg/m^3		PNOS deleted, not appropriate.
1759	Maleic acid, disodium salt	371-47-1	25	75	500	500	mg/m^3		No pchem data found.
1760	**Maleic anhydride**	**108-31-6**	0.2	**0.2**	**2**	**20**	ppm		**ERPG-1, -2, -3**
1761	Maleic hydrazide; (3,6-Pyridazinedione,1,2-dihydro-)	123-33-1	0.6	2	12.5	500	mg/m^3		
1762	Malic acid, DL-	617-48-1	6	20	125	500	mg/m^3		HSDB, TSCA listed. Mouse LD50 1600-3200 mg/kg.
1763	Malonic acid; (Carboxyacetic acid)	141-82-2	20	60	400	500	mg/m^3	**T-0, P-1, P-2**	Rat ip TDlo, rat ip LD50.
1764	Mancozeb; (Dithane M-45)	8018-01-7	1	3	200	500	mg/m^3		
1765	Manganese	7439-96-5	0.2	3	5	500	mg/m^3		
1766	Manganese carbonate	598-62-9	0.418	6.28	10.5	500	mg/m^3		Mn inorganic compounds, as Mn.
1767	Manganese dioxide	1313-13-9	0.317	4.75	79.1	500	mg/m^3		Mn inorganic compounds, as Mn.
1768	Manganese hydroxide	18933-05-6	0.324	4.86	8.1	500	mg/m^3		Mn inorganic compounds, as Mn.
1769	Manganese nitrite	18488-90-9	0.535	8.02	13.4	500	mg/m^3		Mn inorganic compounds, as Mn.
1770	Manganese oxalate	640-67-5	0.52	7.81	13	500	mg/m^3		Mn inorganic compounds, as Mn.
1771	Manganese oxide; (Manganese tetroxide)	1317-35-7	0.278	4.17	69.4	500	mg/m^3	**P-1**	Mn inorganic compounds, as Mn.
1772	Manganese phosphate	10124-54-6	0.43	6.46	10.8	500	mg/m^3		Mn inorganic compounds, as Mn.

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Based on applicable AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
1773	Manganese tricarbonyl methylcyclopentadienyl	12108-13-3	0.2	0.6	0.6	7.5	mg/m^3	**T-0**	
1774	Manganese(II) chloride (1:2); (Manganous chloride)	7773-01-5	0.458	6.87	11.5	500	mg/m^3	**P-3**	Mn inorganic compounds, as Mn.
1775	Manganese(II) chloride tetrahydrate	13446-34-9	0.721	10.8	180	500	mg/m^3		Mn inorganic compounds, as Mn.
1776	Manganese(II) nitrate	10377-66-9	0.651	9.77	16.3	500	mg/m^3		Mn inorganic compounds, as Mn.
1777	Manganese(II) nitrate hydrate	15710-66-4	0.717	10.8	17.9	500	mg/m^3		Mn inorganic compounds, as Mn.
1778	Manganese(II) sulfate monohydrate	10034-96-5	0.615	9.23	15.4	500	mg/m^3	**P-3**	Mn inorganic compounds, as Mn.
1779	Manganese(III) oxide	1317-34-6	0.287	4.31	71.8	500	mg/m^3		Mn inorganic compounds, as Mn.
1780	Manganese(VII) oxide	12057-92-0	0.404	6.06	10.1	500	mg/m^3	**P-3**	Mn inorganic compounds, as Mn.
1781	Manganous oxide; (Manganese(II) oxide)	1344-43-0	0.258	0.75	6.46	500	mg/m^3	**P-3**	Mn inorganic compounds, as Mn.
1782	Manganous sulfate	7785-87-7	0.55	8.25	13.7	500	mg/m^3		Mn inorganic compounds, as Mn.
1783	Manganous sulfide; (Manganese(II) sulfide)	18820-29-6	0.317	1	7.92	500	mg/m^3		Mn inorganic compounds, as Mn.
1784	Mastic (resin)	61789-92-2	4	12.5	100	500	mg/m^3		
1785	Melamine	108-78-1	10	30	50	500	mg/m^3	**P-1, P-2, P-3**	
1786	Memtetrahydrophthalic anhydride; (Tetrahydrophthalic anhydride)	85-43-8	0.05	0.15	1	500	mg/m^3	Added.	
1787	Mephosfolan	950-10-7	1.5	5	9	9	mg/m^3		
1788	Mercaptoacetic acid; (Thioglycolic acid)	68-11-1	1	1	1.25	6	ppm		
1789	Mercaptobenzoic acid, o-	147-93-3	0.2	0.6	4	20	mg/m^3		
1790	Mercaptobenzothiazole, 2-; (2-Benzothiazolethiol)	149-30-4	5	15	40	40	mg/m^3		
1791	Mercaptoethanol, 2-	60-24-2	0.2	2	12.5	200	ppm		
1792	Mercaptopropionic acid, 3-	107-96-0	0.25	0.75	6	40	mg/m^3		

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
1793	Mercuric acetate	1600-27-7	0.0159	0.0477	3.2	3.2	mg/m^3	**T-0, P-1, P-2, P-3**	Mercury, alkyl compound limits.
1794	Mercuric cyanide	592-04-1	0.0315	1.5	12.6	12.6	mg/m^3		PAC-2 modified by human oral TDlo.
1795	Mercuric iodide; (Mercury(II) iodide)	7774-29-0	0.0566	0.0566	0.227	22.7	mg/m^3	**P-1**	
1796	Mercuric sulfate; (Mercury(II) sulfate)	7783-35-9	0.037	0.037	0.148	14.8	mg/m^3		
1797	Mercuric thiocyanate; (Mercuric sulfocyanate)	592-85-8	0.0395	0.0395	0.158	15.8	mg/m^3	**P-1**	
1798	Mercuric trifluoroacetate	13257-51-7	0.0213	0.0638	0.0851	4.3	mg/m^3		
1799	Mercurol; (Mercury nucleate)	12002-19-6	0.025	0.025	0.1	10	mg/m^3	**P-1**	
1800	Mercurous chloride; (Mercury monochloride)	7546-30-7	0.0294	0.0294	0.118	11.8	mg/m^3	**P-1**	
1801	Mercurous nitrate monohydrate	7782-86-7	0.0351	0.0351	0.14	14	mg/m^3		
1802	Mercurous nitrate; (Mercury(I) nitrate(1:1))	10415-75-5	0.0327	0.0327	0.131	13.1	mg/m^3		
1803	Mercurous oxide; (Mercury(I) oxide)	15829-53-5	0.026	0.026	0.104	10.4	mg/m^3		
1804	Mercury hydroxide	12135-13-6	0.0292	0.0292	0.117	11.7	mg/m^3		
1805	Mercury nitrate; (Mercury(II) nitrate (1:2))	10045-94-0	0.0405	0.0405	0.162	16.2	mg/m^3		
1806	Mercury nitrite; (Mercury(II) nitrite)	18541-72-5	0.0365	0.0365	0.146	14.6	mg/m^3		CASRN changed from 13492-25-6 per LLNL.
1807	**Mercury vapor**	**7439-97-6**	0.025	0.3	**2.05**	**4.10**	mg/m^3		**Hg vapor ERPG-2 & -3 = 0.25 & 0.5 ppm, converted to mg/m^3.**
1808	Mercury(I) chloride; (Dimercury dichloride)	10112-91-1	0.0294	0.15	1.18	11.8	mg/m^3	**P-1**	Synonym name changed. Light sensitive.
1809	Mercury(II) chloride; (Mercury bichloride)	7487-94-7	0.0338	2	13.5	13.5	mg/m^3		
1810	Mercury(II) nitrate monohydrate	7783-34-8	0.0427	0.0427	0.171	17.1	mg/m^3	**P-1**	
1811	Mercury(II) oxide; (Mercuric oxide)	21908-53-2	0.027	0.15	1.08	10.8	mg/m^3		
1812	**Mesitylene; (1,3,5-Trimethylbenzene)**	**108-67-8**	25	**140**	**360**	500	ppm		**Interim AEGL-1, -2**

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
1813	Metaphosphoric acid	37267-86-0	10	30	50	250	mg/m^3		TSCA, HC&P listed, no toxicity data, pchem data ex ChemFinder.
1814	Methacrolein diacetate; (Acetic acid, 2-methyl-2-propene-1,1-diol diester)	10476-95-6	7.5	25	44	44	mg/m^3		Synonym spelling corrected. SAX and RTECS tox data differ.
1815	**Methacrylaldehyde**	**78-85-3**	0.06	**0.2**	**2.8**	**4.7**	ppm		**Interim AEGL-1, -2, -3**
1816	Methacrylamide	79-39-0	0.015	0.04	0.3	200	mg/m^3		
1817	**Methacrylic acid**	**79-41-4**	6.7	**6.7**	**61**	**220**	ppm		**Interim AEGL-1, -2, -3**
1818	Methacrylic acid, diester with triethylene glycol; (Polyester TGM3)	109-16-0	1.5	5	35	500	mg/m^3	**T-0, P-1, P-2**	
1819	Methacrylic anhydride	760-93-0	0.75	2.5	4.5	150	mg/m^3		
1820	**Methacrylonitrile; (Methylacrylonitrile)**	**126-98-7**	1	**1.0**	**13**	**25**	ppm		**Interim AEGL-1, -2, -3**
1821	Methacryloyl chloride	920-46-7	0.025	0.075	0.14	6	ppm		
1822	Methamidophos	10265-92-6	3.5	10	60	60	mg/m^3		
1823	Methane	74-82-8	1,000	3,000	***5,000***	***2.00E+05***	ppm		TLV-TWA for aliphatic hydrocarbon gas. See LEL formatting note.
1824	Methane-d3	676-80-2	1,000	3,000	5,000	50,000	ppm	**P-3**	Methane PAC.
1825	Methanesulfonic acid	75-75-2	4	12.5	75	400	mg/m^3		
1826	Methanesulfonic acid, ethyl ester; (Ethyl methanesulfonate)	62-50-0	0.5	1.5	10	150	mg/m^3		
1827	**Methanesulfonyl chloride**	**124-63-0**	0.1	0.3	**2.1**	**6.2**	ppm		**Interim AEGL-2, -3**
1828	Methanesulfonyl fluoride	558-25-8	0.6	2	3.49	3.49	ppm	**T-0, P-1**	Rat TClo suppressed.
1829	Methidathion; (O,O-Dimethyl-S-(5-methoxy-1,3,4-thiadiazolinyl-3-methyl)dithiophosphate)	950-37-8	1	3	20	400	mg/m^3		
1830	Methiocarb; (Mercaptodimethur)	2032-65-7	3	7.5	15	15	mg/m^3		
1831	Methomyl	16752-77-5	2.5	7.5	10	200	mg/m^3		
1832	Methoxybenzaldehyde; (p-Anisaldehyde)	123-11-5	0.075	0.2	1.5	500	mg/m^3		

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
1833	Methoxybenzyl alcohol, 4-	105-13-5	7.5	25	200	500	mg/m^3		
1834	Methoxychlor	72-43-5	15	30	250	500	mg/m^3		
1835	Methoxyethoxy)ethanol, 2-(2-; (Diethylene glycol monomethyl ether)	111-77-3	1.5	4	20	20	ppm	**T-0, P-1, P-2, P-3**	Toxicity data corrected.
1836	Methoxyethylamine, 2-	109-85-3	0.5	1.5	10	50	ppm		
1837	Methoxyethylmercuric acetate	151-38-2	0.0159	0.0477	3.18	3.18	mg/m^3		
1838	Methoxyphenol, p-	150-76-5	5	15	100	500	mg/m^3		
1839	Methoxypropylamine, 3-; (3-MPA)	5332-73-0	5	15	15	40	ppm		
1840	Methoxytrimethylsilane	1825-61-2	0.05	0.5	2	5	ppm		**SAR**
1841	Methyl 2-cyanoacrylate; (Permabond 910 adhesive)	137-05-3	0.2	4	12.5	12.5	ppm		MF in SAX wrong.
1842	Methyl 2-pyrrolidinone, 1-; (N-Methylpyrrolidone)	872-50-4	10	10	25	25	ppm		
1843	Methyl acetate	79-20-9	200	250	500	***3,100***	ppm		See LEL formatting note.
1844	Methyl acetylene	74-99-7	1,000	***1,700***	***1,700***	***1,700***	ppm		See LEL formatting note.
1845	Methyl acetylene-propadiene mixture; (MAPP)	59355-75-8	1,000	1,250	1,250	***3,400***	ppm		See LEL formatting note.
1846	Methyl acrylate	96-33-3	2	2	7.5	250	ppm	**P-3**	
1847	**Methyl alcohol; (Methanol)**	**67-56-1**	200	**530**	**2100**	***7200***	ppm		**Interim AEGL-1, -2, -3** See LEL formatting note.
1848	Methyl alcohol-d	1455-13-6	200	530	2,100	***7,200***	ppm	**P-1, P-2, P-3**	
1849	Methyl alcohol-d4	811-98-3	200	530	2,100	***7,200***	ppm	**P-1**	
1850	Methyl benzoate; (Benzoic acid, methyl ester)	93-58-3	2	6	40	75	ppm		
1851	**Methyl bromide; (Bromomethane)**	**74-83-9**	1	30	**210**	**740**	ppm		**Interim AEGL-2, -3**
1852	Methyl butylacrylate, 2-; (Butyl methacrylate)	97-88-1	2.5	7.5	50	500	mg/m^3		

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
1853	**Methyl chloride**	**74-87-3**	100	100	**910**	**3000**	ppm		**Interim AEGL-2, -3**
1854	**Methyl chloroformate; (Methyl chlorocarbonate)**	**79-22-1**	0.2	0.3	**2.2**	**6.7**	ppm	P-3	**Interim AEGL-2, -3** **ERPG-2, -3**
1855	**Methyl chlorosilane; (Chloromethylsilane)**	**993-00-0**	0.6	**1.8**	**22**	**100**	ppm		**Interim AEGL-1,-2, -3** added.
1856	**Methyl cyclohexylfluorophosphonate; (GF)**	**329-99-7**	6.00E-05	**0.00020**	**0.0024**	**0.018**	ppm		**Final AEGL-1, -2, -3**
1857	Methyl demeton methyl; (Phosphorothioic acid, O,O-dimethyl-S-(2-methylthio)ethyl ester)	2587-90-8	4	12.5	20	20	mg/m^3		
1858	**Methyl dichlorosilane; (Dichloromethylsilane)**	**75-54-7**	0.3	**0.90**	**11**	**47**	ppm		**Interim AEGL-1, -2, -3** added.
1859	Methyl difluorophosphite; (Methylphosphonic difluoride)	676-99-3	0.75	2.5	20	100	mg/m^3		
1860	Methyl ether; (Dimethyl ether)	115-10-6	1,000	***3,000***	***10,000***	***60,000***	ppm		See LEL formatting note.
1861	Methyl ethyl ketone peroxide	1338-23-4	1	3	20	20	ppm		
1862	Methyl fluoride; (Fluoromethane)	593-53-3	4.48	13.4	22.4	448	mg/m^3		
1863	Methyl fluoroacetate	453-18-9	0.015	0.05	0.35	5	mg/m^3		
1864	Methyl fluorosulfate	421-20-5	0.0025	0.0075	0.05	0.25	ppm		
1865	Methyl formate; (Formic acid, methyl ester)	107-31-3	100	150	750	***4,500***	ppm		See LEL formatting note.
1866	**Methyl iodide**	**74-88-4**	5	**25**	**50**	**125**	ppm		**ERPG-1, -2, -3**
1867	Methyl isobutyl ketone; (Hexone)	108-10-1	75	75	75	500	ppm		
1868	**Methyl isocyanate**	**624-83-9**	0.02	**0.025**	**0.067**	**0.20**	ppm		**Final AEGL -2, -3** **ERPG-1, -2, -3**
1869	Methyl isopropyl ketone; (3-Methyl-2-butanone)	563-80-4	200	200	200	600	ppm		
1870	Methyl isothiocyanate; (Isothiocyanatomethane)	556-61-6	1.5	4	33	500	mg/m^3		
1871	Methyl lithium	917-54-4	1	3	20	100	mg/m^3		No toxicity data found. Spontaneous ignition in air: estimated from LiO and LiOH toxicity.

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
1872	**Methyl mercaptan**	**74-93-1**	0.5	6	**47**	**68**	ppm		**Interim AEGL -2, -3** **ERPG-1, -2, -3** Odor-based ERPG-1 ignored.
1873	Methyl mercury	22967-92-6	0.0107	0.0322	0.043	2.15	mg/m^3		
1874	**Methyl methacrylate**	**80-62-6**	17	**17**	**120**	**570**	ppm		**Interim AEGL-1, -2, -3**
1875	Methyl n-amyl ketone	110-43-0	100	100	125	800	ppm		
1876	Methyl nitrate; (Nitric acid, methyl ester)	598-58-3	5	15	100	500	ppm		
1877	**Methyl nonafluorobutyl ether (40%) and Methyl nonafluoroisobutyl ether (60%) (ppm) (HFE-7100)**	**163702-07-6** **163702-08-7**	750	**2500**	**8200**	**15000**	ppm		**Final AEGL-1, -2, -3**
1878	Methyl parathion	298-00-0	0.02	0.06	0.34	15	mg/m^3	**T-0, P-1**	
1879	Methyl phencapton	3735-23-7	2	6	11	100	mg/m^3		
1880	Methyl phosphonic dichloride	676-97-1	0.06	0.2	1.4	15	mg/m^3		
1881	Methyl phosphonothioic dichloride	676-98-2	1.5	4	30	150	mg/m^3		LC50 estimated from similar compounds.
1882	Methyl pyridine, 3-; (3-Picoline)	108-99-6	2	5	125	600	ppm		
1883	Methyl salicylate	119-36-8	0.125	0.4	2.5	12.5	ppm		
1884	Methyl sulfoxide-d6; (Dimethyl-d6-sulfoxide)	2206-27-1	250	250	250	2,000	ppm	**T-0, P-1, P-2, P-3**	H&N listed, no toxicity data, but use dimethylsulfoxide, CASRN=67-68-5.
1885	**Methyl tert-butyl ether; (MTBE)**	**1634-04-4**	50	**50**	**570**	***5300***	ppm		**Interim AEGL-1, -2, -3** **ERPG-1, -2, -3** See LEL formatting note.
1886	Methyl thiocyanate	556-64-9	5	15	28.4	28.4	ppm		
1887	Methyl vinyl carbinol; (3-Buten-2-ol)	598-32-3	0.25	0.75	5	25	ppm		Human TClo.
1888	**Methyl vinyl ketone; (3-Buten-2-one)**	**78-94-4**	0.05	**0.17**	**1.2**	**2.4**	ppm		**Interim AEGL-1, -2, -3**
1889	Methyl-1-butene, 2-	563-46-2	***65,000***	***65,000***	***2.30E+05***	***4.00E+05***	ppm		Simple asphyxiant, See LEL formatting note.

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Table 2: Protective Action Criteria (PAC) Rev 25
Based on applicable AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
1890	Methyl-1H-benzotriazole	29385-43-1	2.5	7.5	60	300	mg/m^3	**T-0, P-1, P-2**	
1891	Methyl-1-phenyl-2-pyrazolin-5-one, 3-	89-25-8	15	40	300	500	mg/m^3		
1892	Methyl-1-propanethiol, 1-; (sec-Butyl mercaptan; 2-Butanethiol)	513-53-1	2	6	40	200	ppm		NFPA HHR = 2.
1893	Methyl-1-propen-1-one, 2-; (Dimethylketene)	598-26-5	0.03	0.1	0.6	3.5	ppm		Toxicity based on ketene.
1894	Methyl-2-(1-methylethyl)phenol, 5-; (Thymol)	89-83-8	0.075	0.25	1.5	400	mg/m^3		
1895	Methyl-2-butene, 2-	513-35-9	2	6	40	200	ppm		No toxicity data found, HHR = 2 in MSDS.
1896	Methyl-2-chloroacrylate	80-63-7	0.05	0.15	1.01	7.5	ppm		
1897	Methyl-2-heptanone, 6-	928-68-7	10	30	50	250	mg/m^3	**T-0, P-1, P-2, P-3**	TSCA, HC&P listed, no toxicity data. Assumed non-volatile.
1898	Methyl-2-hexanone, 5-; (Methyl isoamyl ketone)	110-12-3	100	150	***1,500***	***1,500***	ppm		See LEL formatting note.
1899	Methyl-3-penten-2-one, 4-; (Mesityl oxide)	141-79-7	25	25	25	***1,400***	ppm		See LEL formatting note.
1900	Methyl-4-penten-2-one, 4-	3744-02-3	25	25	25	***1,400***	ppm		Based on mesityl oxide (CASRN 141-79-7) See LEL formatting note.
1901	Methyl-5-nitroaniline, 2-; (5-Nitro-o-toluidine; Benzenamine, 2-methyl-5-nitro-)	99-55-8	1	3	150	250	mg/m^3		
1902	Methyl-5-vinylpyridine, 2-	140-76-1	0.35	1	1.9	40	mg/m^3		
1903	Methyl-8-quinolinol, 2-	826-81-3	10	30	50	250	mg/m^3		No toxicity data found. MSDS data.
1904	Methylal; (Dimethoxymethane)	109-87-5	1,000	***2,200***	***2,200***	***2,200***	ppm		See LEL formatting note.
1905	Methylamine hydrochloride	593-51-1	3.5	10	60	500	mg/m^3		
1906	Methylamino)ethanol, 2-(	109-83-1	3	10	60	350	ppm		
1907	Methylaniline, N-	100-61-8	2	2	2.5	100	ppm		
1908	Methylaziridine, 1-	1072-44-2	2	2	2	100	ppm		LClo > 2000 mg/m^3, **SAR.**
1909	Methylbutanamide, 3-; (Isovaleramide)	541-46-8	6	20	125	500	mg/m^3		

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
1910	Methylbutylamine, N-	110-68-9	2	6	40	200	ppm		
1911	Methylcellulose	9004-67-5	15	50	350	500	mg/m^3	**T-0, P-1, P-2**	Suppressed mouse intraperitoneal LD50.
1912	Methylchlorodisilane; (Chloromethyldisilane)	68937-17-7	0.1	0.3	2	10	ppm		
1913	Methylcholanthrene, 3-	56-49-5	0.2	0.6	4	75	mg/m^3		
1914	Methylcyclohexane	108-87-2	500	***1,200***	***1,200***	***1,200***	ppm		See LEL formatting note.
1915	Methylcyclohexanone	1331-22-2	1.5	5	40	200	ppm		
1916	Methylcyclohexanone, 2-; (o-Methylcyclohexanone)	583-60-8	50	75	125	600	ppm	**T-0**	PEL-TWA. TLV-STEL suppressed.
1917	Methylcyclopentane	96-37-7	4	12.5	75	***4,000***	ppm		See LEL formatting note.
1918	Methyldecane, 4-	2847-72-5	1.57	4.7	7.83	40	ppm		HC&P listed, no toxicity data found.
1919	**Methyldichloroarsine; (Dichloromethylarsine)**	**593-89-5**	0.053	0.053	**0.053**	**0.16**	mg/m^3		**Interim AEGL-2, -3** added.
1920	Methylene bis(2-chloroaniline), 4,4'-; (MBOCA)	101-14-4	0.01	0.03	0.6	40	ppm		
1921	Methylene bis(4-isocyanatocyclohexane), 1,1'-	5124-30-1	0.005	0.005	0.01	0.15	ppm		
1922	**Methylene chloride; (Dichloromethane)**	**75-09-2**	25	**200**	**560**	**6900**	ppm		**Interim AEGL-1, -2, -3**
1923	**Methylene diphenyl diisocyanate; (Diphenylmethane diisocyanate; MDI)**	**101-68-8**	0.051	**0.2**	**2**	**25**	mg/m^3		**ERPG-1, -2, -3**
1924	Methylene fluoride; (Difluoromethane; HFC-32)	75-10-5	1,000	3,000	2.00E+05	4.00E+05	ppm		
1925	Methylenebis(isocyanato-benzene), 1,1'-; (Diphenyl methane diisocyanate)	26447-40-5	24	72.1	120	120	mg/m^3	**T-0, P-1, P-2**	TSCA listed. Used Cyanides PEL-TWA.
1926	Methylenebisacrylamide, N,N'-	110-26-9	1.5	5	35	150	mg/m^3		
1927	Methylenedianiline, 4,4'-	101-77-9	0.01	0.1	0.6	15	ppm		
1928	Methylethyl hydroperoxide, 1-; (Isopropyl hydroperoxide)	3031-75-2	0.6	2	12.5	60	mg/m^3		Based on Isopropylbenzenehydroperoxide.
1929	Methylformamide, N-	123-39-7	15	50	350	500	ppm		

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
1930	Methylfuran, 2-	534-22-5	6	20	50	50	ppm		
1931	Methylheptane, 2-	592-27-8	2	6	40	200	ppm		HC&P listed, no toxicity data, pchem data ex ChemFinder. Duplicate entry deleted.
1932	Methylheptane, 4-	589-53-7	0.5	1.5	10	50	ppm	**T-0, P-1, P-2, P-3**	No toxicity data. See 2-methylheptane, 592-27-8.
1933	Methylhydrosiloxane (3-4%) + dimethylsiloxane (96-97%) copolymer	68037-59-2	10	30	50	250	mg/m^3		TSCA and ChemFinder listed, no pchem or toxicity data found.
1934	Methylimidazole, 1-	616-47-7	6	15	125	500	mg/m^3		
1935	Methylimidazole, 4-	822-36-6	20	60	300	300	mg/m^3		Added.
1936	Methyllactic acid ethyl ester, 2-; (Ethyl 2-hydroxyisobutyrate)	80-55-7	15	50	400	500	mg/m^3		
1937	**Methyllactonitrile 2-; (Acetone cyanohydrin)**	**75-86-5**	1.44	**2.0**	**7.1**	**15**	ppm		**Final AEGL-1, -2, -3**
1938	Methylmagnesium bromide, 3.0 m in diethyl ether	75-16-1	0.4	1.25	7.5	40	ppm		No toxicity data found.
1939	Methylmagnesium chlordie	676-58-4	1.5	5	35	150	mg/m^3		No toxicity data found, HHR = 3.
1940	Methylmercuric dicyanamide	502-39-6	0.0149	0.0447	2.98	2.98	mg/m^3		
1941	Methylmorpholine, 4-	109-02-4	2	6	40	200	ppm		
1942	Methylnaphthalene, 1-	90-12-0	3	20	20	500	mg/m^3	**T-0**	
1943	Methylnaphthalene, 2-	91-57-6	3	3	3.5	500	mg/m^3	**T-0, P-1**	
1944	Methylnitrosopiperidine, 3-; (Piperidine, 3-methyl-1-nitroso-)	13603-07-1	0.06	0.15	1.25	6	ppm		
1945	Methylnonane, 4-	17301-94-9	2	6	40	200	ppm		HC&P, no toxicity data, toxicity estimated.
1946	Methylpentane, 2-; (Isohexane)	107-83-5	500	510	510	***2,500***	ppm		See LEL formatting note.
1947	Methylpentane, 3-	96-14-0	500	510	510	***2,500***	ppm		See LEL formatting note.
1948	Methylpentanol-1, 2-; (Amyl methyl alcohol)	105-30-6	0.25	0.75	5	150	ppm		
1949	Methylphenol, 2-; (o-Cresol)	95-48-7	5	5	24.9	250	ppm		

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
1950	Methylphenol, 3-; (m-Cresol)	108-39-4	5	5	24.9	250	ppm		
1951	Methylphenol, 4-; (p-Cresol)	106-44-5	5	5	24.9	250	ppm		
1952	Methylphenylthiourea, 2-; (o-Tolyl thiourea)	614-78-8	10	30	50	50	mg/m^3		
1953	Methylphosphonate	993-13-5	10	10	10	10	mg/m^3		HSDB, HC&P listed, no toxicity data found. Changed "Y" to "N."
1954	Methylphosphonothioic acid, S-(2-(dimethylamino)ethyl) O-ethyl ester	20820-80-8	6.00E-05	2.00E-04	0.00125	0.006	ppm		"Vsub; (VXR)" deleted. No pchem data found. Client human LC50.
1955	Methylphosphonothioic acid-O-(4-nitrophenyl)-O-phenyl ester	2665-30-7	1.5	5	8	8	mg/m^3		
1956	Methylphosphonothioic acid-O-ethyl O-(4-(methylthio)phenyl) ester	2703-13-1	2	6	10	10	mg/m^3		
1957	Methylpropane, 2-; (Isobutane)	75-28-5	800	***2,400***	***4,000***	***15,000***	ppm	**T-0, P-1, P-2**	See LEL formatting note.
1958	Methylpropene, 2-; (Isobutene)	115-11-7	250	750	1,250	***1.00E+05***	ppm		New TLV-TWA, See LEL formatting note.
1959	Methylpropylnitrosoamine; (N-Methyl-N-nitroso-1-propanamine)	924-46-9	0.01	0.03	0.2	4	ppm		
1960	Methylpyridine, 2-; (2-Picoline)	109-06-8	2	5	5	300	ppm		
1961	Methylpyrrole, N-	96-54-8	75	250	500	500	mg/m^3		No toxicity data found. MSDS NFPA HHR = 0.
1962	Methylpyrrolidine; (Methylpyrrolidine, 1-)	120-94-5	0.75	2	15	75	mg/m^3		
1963	Methylstyrene, alpha-	98-83-9	50	100	100	700	ppm		
1964	Methyltetrahydrofuran, 2-	96-47-9	6	15	125	600	ppm		
1965	Methyltriacetoxysilane	4253-34-3	7.5	25	150	500	mg/m^3		
1966	**Methyltrichlorosilane; (Trichloromethyl silane)**	**75-79-6**	0.2	**0.60**	**6.2**	**28**	ppm		**Interim AEGL-1, -2, -3**
1967	Methyltriethoxysilane	2031-67-6	6	15	125	600	ppm		
1968	Methyl-trifluoromethanesulfonate	333-27-7	7.2	21.6	36	500	mg/m^3		No toxicity data found.
1969	Methyltrimethoxysilane	1185-55-3	50	150	500	500	mg/m^3		

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
1970	Methyltrioctylammonium chloride	5137-55-3	0.75	2.5	20	100	mg/m^3		
1971	**Methylvinyldichlorosilane; (Dichloromethylvinylsilane)**	**124-70-9**	0.3	**0.90**	**11**	**50**	ppm		**Interim AEGL-1, -2, -3** added.
1972	Methylvinylsiloxane-dimethylsiloxane copolymer, vinyl terminated	68083-18-1	10	30	50	250	mg/m^3		TSCA listed, no toxicity or pchem data found.
1973	Metolcarb; (Methylcarbamic acid m-tolyl ester)	1129-41-5	1	3	4.8	200	mg/m^3		
1974	Mevinphos; (Phosdrin)	7786-34-7	0.1	0.3	4	36.6	mg/m^3	***P-3***	
1975	Mexacarbate; (4-(Dimethylamine)-3,5-xylyl N-methylcarbamate)	315-18-4	2.5	7.5	14	14	mg/m^3		
1976	Mica; (mica silicates)	12001-26-2	3	9	15	500	mg/m^3	***P-3***	
1977	Michler's ketone; (4,4'-Bis(dimethylamino)benzophenone)	90-94-8	1	3.5	25	40	mg/m^3		
1978	Mineral fibers, fine	z-0032	10	30	50	250	mg/m^3	***P-3***	Could not find source of Told.
1979	Mineral oil, heavy or light; (Paraffin oil; Deobase, deodorized)	8020-83-5	5	15	500	500	mg/m^3	***T-0, P-1***	
1980	Mineral oil, petroleum distillates, heavy naphthenic	64741-53-3	5	15	100	500	mg/m^3	***T-0, P-1***	
1981	Mineral oil, petroleum distillates, solvent refined light naphthenic	64741-97-5	5	15	25	500	mg/m^3	***T-0, P-1, P-2***	Rat LD > 5 g/kg. No pchem data found.
1982	Mineral oil, petroleum distillates, solvent-refined (mild) heavy paraffinic	64741-88-4	5	15	25	500	mg/m^3	***T-0, P-1, P-2***	No toxicity data found. Rat oral LD50 for similar compounds > 5 g/kg.
1983	Mineral oil, white	8042-47-5	5	15	500	500	mg/m^3	***T-0, P-1***	
1984	Mineral oil; (Oil mist, mineral)	8012-95-1	5	10	25	500	mg/m^3	***P-2***	
1985	Mirex; (Perchloropentacyclodecane)	2385-85-5	0.03	0.075	0.6	100	mg/m^3		
1986	Mitomycin C	50-07-7	4	12.5	23	23	mg/m^3		
1987	Molecular sieve 13X	63231-69-6	7.5	25	150	500	mg/m^3		MSDS HHR = 2.
1988	Molybdate orange	12656-85-8	50	150	500	500	mg/m^3	***T-0, P-1, P-2***	PEL-TWA suppressed.
1989	Molybdenum	7439-98-7	15	30	50	500	mg/m^3	***T-0***	

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
1990	Molybdenum carbide	12011-97-1	16.9	33.8	56.3	500	mg/m^3	T-0	LD > 250 mg/kg.
1991	Molybdenum dioxide	18868-43-4	0.667	2	3.5	500	mg/m^3	T-0, P-1, P-2	
1992	Molybdenum disilicide	12136-78-6	23.8	47.6	79.3	500	mg/m^3	T-0	
1993	Molybdenum hexacarbonyl	13939-06-5	41.3	82.6	138	500	mg/m^3	T-0	Insoluble Mo compound.
1994	Molybdenum pentachloride	10241-05-1	1.42	4.27	500	500	mg/m^3	T-0, P-1	
1995	Molybdenum trioxide	1313-27-5	0.75	0.75	0.75	500	mg/m^3	T-0, P-1, P-2	
1996	Molybdenum(IV) sulfide	1317-33-5	25	50.1	83.4	500	mg/m^3	T-0	Rat oral LD50 > 2 g/kg.
1997	Molybdic acid	7782-91-4	0.844	2.53	4.22	500	mg/m^3	T-0, P-1, P-2	Mo compounds, treated as soluble.
1998	Molybdic acid, ammonium salt; (Ammonium molibdate)	11098-84-3	1.17	3.51	500	500	mg/m^3	T-0, P-1	Could not confirm MF, MW. RTECS toxicity data.
1999	Molybdic acid, disodium salt; (Disodium molybdate)	7631-95-0	1.07	3.22	10	500	mg/m^3	T-0, P-1, P-2	
2000	Molybdic acid, hexaammonium salt; (Ammonium heptamolybdate)	12027-67-7	0.867	2.6	4.33	500	mg/m^3	T-0, P-1, P-2	
2001	Molybdophosphoric acid	12026-57-2	0.793	2.38	4	500	mg/m^3	T-0, P-1, P-2	TSCA listed, no toxicity data. Assumed soluble compound.
2002	Molybdophosphoric acid hydrate; (Phosphomolybdic acid hydrate)	51429-74-4	0.807	2.42	4.03	500	mg/m^3	T-0, P-1, P-2	No toxicity data found.
2003	Monobutyl phosphite	16456-56-7	6	20	150	500	mg/m^3		
2004	Monochloroamine; (Chloramide)	10599-90-3	0.05	0.15	1	5	ppm		RTECS data used.
2005	Monochloropentafluoroethane; (CFC-115)	76-15-3	1,000	3,000	5,000	3.00E+05	ppm		
2006	Monocrotophos	6923-22-4	0.05	0.15	0.63	25	mg/m^3		
2007	**Monomethylamine; (Methylamine)**	**74-89-5**	10	**15**	**64**	**350**	ppm		**Interim AEGL-1, -2, -3** **ERPG-1, -2, -3**
2008	**Monomethylhydrazine; (Methyl hydrazine)**	**60-34-4**	0.01	0.2	**0.9**	**2.7**	ppm		**Final AEGL-2, -3**
2009	Monosodium titanate	60704-88-3	10	30	50	250	mg/m^3		MSDS #18858-00 CASRN 12034-36-5 TSCA has MF = Na.H-O5-Ti2.

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Table 2: Protective Action Criteria (PAC) Rev 25
Based on applicable AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
2010	Montmorillonite	1318-93-0	0.3	0.75	6	30	mg/m^3	**T-0, P-1, P-2**	Used Bentonite (1302-78-9) acute lethality data, suppressed rat intratracheal TDlo.
2011	Morpholine	110-91-8	20	30	30	***1,400***	ppm		See LEL formatting note.
2012	Morpholinepropanesulfonic acid, 4-	1132-61-2	1.25	4	25	125	mg/m^3		Quail LD50 > 316 mg/m^3.
2013	Morpholino)ethanesulfonic acid monohydrate, 2-(N-	4432-31-9	1.25	4	25	125	mg/m^3		Quail LD50 > 316 mg/kg.
2014	Muscimol; (5-Aminomethyl-3-isoxyzole)	2763-96-4	3.5	10	17	20	mg/m^3		
2015	Mustard gas sulfoxide; (bis(2-Chloroethyl)sulfoxide)	5819-08-9	0.4	1.25	7.5	40	mg/m^3		No pchem data found.
2016	Myoglobins	9008-45-1	10	30	50	250	mg/m^3		Not found in databases. MSDS states Solid.
2017	Myristic acid, butyl ester; (Tetradecanoic acid, butyl ester)	110-36-1	3	7.5	60	300	ppm		Rat oral LD50 > 8 g/kg.
2018	Myristic acid, isopropyl ester; (Tetradecanoic acid, isopropyl; Isopropyl myristate)	110-27-0	200	500	500	500	mg/m^3		
2019	Nabumetone; (Relafen; 4-(6-Methoxy-2-naphthyl)-2-butanone)	42924-53-8	0.75	2.5	15	500	mg/m^3	**T-0, P-1, P-2**	
2020	Nadic methyl anhydride	25134-21-8	0.75	2	15	75	mg/m^3		
2021	Naphtha (coal tar); (Naphtha [petroleum] light aliphatic; Aliphatic naphtha)	8030-30-6	100	350	***1,000***	***1,000***	ppm		See LEL formatting note.
2022	Naphtha (petroleum), heavy catalytic cracked	64741-54-4	15	40	300	500	mg/m^3		Rat 240 min LC > 5700 mg/m^3, oral LD > 5000 mg/kg.
2023	Naphtha (petroleum), light straight-run	64741-46-4	100	350	***1,000***	***1,000***	ppm		Added. No toxicity data found. Used Naphtha (Coal tar) PAC. See LEL formatting note.
2024	Naphtha, heavy aliphatic solvent	64742-96-7	15	40	300	500	mg/m^3		TSCA listed, no toxicity data found. Used Naphtha (petroleum) heavy catalytic cracked (64741-54-4) PAC.
2025	Naphtha, hydrotreated heavy; (Isopar L-rev 2)	64742-48-9	171	513	***855***	***1,250***	ppm		OEL-TWA = 171 ppm (1200 mg/m^3) from Exxon MSDS. See LEL formatting note.
2026	Naphthalenamine, 1-; (1-Naphthylamine)	134-32-7	0.6	1.5	12.5	350	mg/m^3		
2027	Naphthalene	91-20-3	10	15	15	250	ppm		
2028	Naphthaleneacetamide, 1-	86-86-2	6	20	150	500	mg/m^3		
2029	Naphthalenetrisulfonic acid sodium salt, 1,3,6-	19437-42-4	10	30	50	250	mg/m^3		TSCA listed, no toxicity or pchem data found. MSDS Solid.

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Table 2: Protective Action Criteria (PAC) Rev 25
Based on applicable AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
2030	Naphthenic acid, lead salt	61790-14-5	1.25	4	30	500	mg/m^3	**T-0, P-1, P-3**	For stated MW, x = 7.
2031	Naphthol, 1-	90-15-3	25	75	500	500	mg/m^3		
2032	Naphthol, 2-	135-19-3	0.0025	0.0075	0.05	500	mg/m^3		
2033	Naphthol-8-sulfonic acid, sodium salt, 2-	832-85-9	2	6	40	200	mg/m^3		Not found in databases. Used 2-Naphthol-6-sulfonic acid (93-01-6) toxicity data.
2034	Naphthoquinone, 1,4-	130-15-4	7.5	25	75	75	mg/m^3	**T-0, P-1, P-2**	
2035	Naphthylamine, beta-	91-59-8	1.5	5	35	300	mg/m^3		
2036	Naphthylthiourea, alpha-; (ANTU)	86-88-4	0.3	0.9	10	100	mg/m^3		
2037	Neatsfoot oil; (Fats and glyceridic oils)	8002-64-0	10	30	50	250	mg/m^3		TSCA listed, no toxicity or pchem data found, assumed non-volatile.
2038	Neodecanoic acid	26896-20-8	12.5	40	300	500	mg/m^3		
2039	Neodecanoic acid, calcium salt; (Calcium neodecanoate)	27253-33-4	12.5	40	300	500	mg/m^3	Added.	Added. No MSDS found, no useful toxicity data found. Used Neodecanoic acid data.
2040	Neodymium	7440-00-8	7.50E-04	0.0025	0.02	0.1	mg/m^3		
2041	Neodymium bromide	13536-80-6	7.81	15.4	102	500	mg/m^3	**T-0, P-1, P-2, P-3**	Deleted PNOS and used brOmine limits.
2042	Neodymium fluoride	13709-42-7	8.83	26.5	44.1	500	mg/m^3		
2043	Neodymium hydroxide	16469-17-3	0.75	0.75	2	75	mg/m^3		**SAR**
2044	Neodymium nitrate	10045-95-1	7.5	25	150	500	mg/m^3		
2045	Neodymium nitrate, pentahydrate	14517-29-4	10	30	50	250	mg/m^3		HC&P listed, no toxicity data found.
2046	Neodymium nitrite	z-0033	0.04	0.1	0.75	75	mg/m^3		**SAR**
2047	Neodymium(III) chloride	10024-93-8	0.6	1.5	12.5	60	mg/m^3		Units changed.
2048	Neodymium(III) oxide	1313-97-9	20	60	400	500	mg/m^3	**T-0, P-1, P-2**	Rat oral LD50 > 5 g/kg.
2049	Neon	7440-01-9	65,000	65,000	2.30E+05	4.00E+05	ppm		Simple asphyxiant.

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Based on applicable AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
2050	Nickel	7440-02-0	1	4.5	50	100	mg/m^3	***P-2, P-3***	
2051	Nickel acetate tetrahydrate	6018-89-9	0.0636	0.191	0.318	42.4	mg/m^3	***T-0, P-1, P-2***	
2052	Nickel aluminide	12003-78-0	0.271	0.814	1.36	13.6	mg/m^3	***T-0, P-1***	TSCA listed, no toxicity data found.
2053	Nickel carbonate hydroxide; (Basic nickel carbonate tetrahydrate)	39430-27-8	0.427	0.6	4	21.4	mg/m^3	***T-0, P-1***	See also SAX NCY600, 12607-70-4.
2054	Nickel carbonate hydroxide; (Basic nickel(II) carbonate)	12607-70-4	0.346	1.04	1.73	17.3	mg/m^3	***T-0, P-1***	
2055	**Nickel carbonyl**	**13463-39-3**	1.00E-03	0.036	**0.036**	**0.16**	ppm		**Final AEGL-2, -3**
2056	Nickel chloride; (Nickelous chloride)	7718-54-9	0.221	0.663	1.1	22.1	mg/m^3	***T-0, P-1, P-2***	
2057	Nickel cyanide	557-19-7	0.377	1.13	9.44	18.9	mg/m^3		
2058	Nickel fluoride	13940-83-5	0.575	1.73	3	28.8	mg/m^3	***T-0, P-1***	ChemFinder has Nickel(II) fluoride tetrahydrate.
2059	Nickel formate	3349-06-2	0.253	0.75	5	25.3	mg/m^3	***T-0, P-1***	
2060	Nickel oxalate (liquids)	6018-94-6a	2.5	7.5	12.5	25	mg/m^3	***P-1, P-2***	
2061	Nickel oxalate (solids)	6018-94-6b	2.5	7.5	12.5	25	mg/m^3	***P-1, P-2***	
2062	Nickel oxide; (Nickel(II) oxide)	1313-99-1	0.255	0.764	12.7	12.7	mg/m^3	***T-0, P-1***	
2063	Nickel perchlorate	13637-71-3	1.25	3.74	6.23	62.3	mg/m^3	***T-0, P-1***	
2064	Nickel sulfamate; (Nickel(II) sulfamate)	13770-89-3	0.427	1.28	2.14	42.7	mg/m^3	***T-0, P-1, P-2, P-3***	
2065	Nickel sulfate hexahydrate; (Nickel(II) sulfate hexahydrate)	10101-97-0	0.448	1.34	10	44.8	mg/m^3	***T-0, P-1***	
2066	Nickel sulfate; (Nickel(II) sulfate)	7786-81-4	0.264	0.264	0.264	26.4	mg/m^3	***T-0, P-1, P-2***	
2067	Nickel(2+) stearate	2223-95-2	10.7	32	53.3	107	mg/m^3		
2068	Nickel(II) bromide	13462-88-9	0.372	1.12	1.86	37.2	mg/m^3	***T-0, P-1, P-2***	
2069	Nickel(II) carbonate (1:1)	3333-67-3	0.405	1.21	2.02	20.2	mg/m^3	***T-0, P-1***	

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
2070	Nickel(II) chloride hexahydrate	7791-20-0	0.405	1.22	40.5	40.5	mg/m^3	**T-0, P-1**	
2071	Nickel(II) hydroxide; (Nickelous hydroxide)	12054-48-7	0.316	0.948	1.58	15.8	mg/m^3	**T-0, P-1**	SAX has CASRNs of nickelous and nickelic reversed.
2072	Nickel(II) nitrate hexahydrate	13478-00-7	0.496	1.49	49.6	49.6	mg/m^3	**T-0, P-1**	
2073	Nickel(II) nitrate; (Nickelous nitrate)	13138-45-9	0.311	1.5	12.5	31.1	mg/m^3	**T-0, P-1**	
2074	Nickel(II) nitrite	17861-62-0	0.1	0.3	0.5	10	mg/m^3	**T-0, P-1, P-2**	
2075	Nickel(II) phosphate	10381-36-9	0.2	0.6	1	10	mg/m^3	**T-0, P-1**	
2076	Nickel(III) hydroxide; (Nickelic hydroxide)	12125-56-3	0.374	1.12	1.87	18.7	mg/m^3	**T-0, P-1**	CASRN = 12125-56-3 is Ni(OH)3; 12054-48-7 is Ni(OH)2; 11113-74-9 is Ni.OH, but databases differ. Ni.OOH (Ni oxy OH) not found.
2077	Nicotinamide	98-92-0	6	20	150	500	mg/m^3		
2078	Nicotine sulfate	65-30-5	4	9	9	9	mg/m^3		
2079	Nicotine, dl-beta-; (DL-Nicotine)	22083-74-5	0.75	2	15	75	mg/m^3	**T-0, P-1, P-2**	
2080	Nicotine; (Pyridine, (S)-3-(1-methyl-2-pyrrolidinyl)-)	54-11-5	0.5	1.5	3.5	5	mg/m^3		
2081	Nicotinic acid; (Niacin)	59-67-6	0.75	2.5	15	500	mg/m^3		
2082	Niobium	7440-03-1	40	125	500	500	mg/m^3		Rat LD50 > 10 g/kg.
2083	Niobium chloride	10026-12-7	0.2	0.6	4	500	mg/m^3	**T-0, P-1, P-2**	
2084	Niobium pentoxide; (Niobium(V) oxide)	1313-96-8	10	30	200	500	mg/m^3		Rat oral LD50 > 10 g/kg.
2085	Niobium(IV) carbide	12069-94-2	10	30	50	250	mg/m^3	**T-0, P-1, P-2**	TSCA listed, no toxicity data found.
2086	Nitrapyrin; (2-Chloro-6-(trichloromethyl)pyridine)	1929-82-4	15	20	20	400	mg/m^3		
2087	Nitrate(s)	14797-55-8	10	30	50	250	mg/m^3		
2088	**Nitric acid**	**7697-37-2**	0.53	**0.53**	**24**	**92**	ppm		**Interim AEGL-1, -2, -3** WFNA (ERPGs for "white fuming").
2089	Nitric acid, butyl ester; (Butyl nitrate)	928-45-0	2.05	6.16	10.3	50	ppm		No toxicity data found.

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
2090	Nitric acid, ethyl ester; (Ethyl nitrate)	625-58-1	0.35	1	6	35	ppm		HSDB MP = -94.6, BP = 87.2.
2091	Nitric acid, pentyl ester; (Amyl nitrate)	1002-16-0	25	75	500	2,500	ppm		CASRN corrected, 10023-16-0 fails checksum.
2092	**Nitric oxide**	**10102-43-9**	0.5	**0.50**	**12**	**20**	ppm		On AEGL list, no values but EPA recommends use of nitrogen dioxide AEGLs.
2093	Nitrilotriacetic acid, disodium salt; (Disodium nitrilotriacetate)	15467-20-6	6	15	125	500	mg/m^3		
2094	Nitrilotriacetic acid, trisodium salt, monohydrate	18662-53-8	0.06	0.2	1.25	500	mg/m^3		Some toxicity data ex HSDB.
2095	Nitrilotriacetic acid; (Aminotriacetic acid)	139-13-9	35	100	500	500	mg/m^3		
2096	Nitrilotris(methylene)trisphosphonic acid; (Amino, tris[methylene phosphonic acid])	6419-19-8	10	10	35	500	mg/m^3		Name changed.
2097	Nitroaniline, 2-; (o-Nitroaniline)	88-74-4	6	20	125	500	mg/m^3		Rat 4 hr LC50 > 2529 mg/m^3.
2098	Nitroaniline, 3-; (m-Nitroaniline)	99-09-2	0.6	1.5	12.5	200	mg/m^3		
2099	Nitroaniline, p-	100-01-6	6	9	300	300	mg/m^3		
2100	Nitrobenzene	98-95-3	1	3	19.9	200	ppm		
2101	Nitrobenzenesulfonic acid, sodium salt, 3-	127-68-4	40	125	500	500	mg/m^3		
2102	Nitrobiphenyl, 4-; (p-Nitrobiphenyl)	92-93-3	0.25	0.75	5	500	mg/m^3		
2103	Nitrochlorobenzene, m-; (1-Chloro-3-nitrobenzene; m-Chloronitrobenzene)	121-73-3	0.06	0.2	1.25	150	mg/m^3		
2104	Nitrocyclohexane	1122-60-7	0.3	0.75	1.5	60	mg/m^3		
2105	Nitrocyclohexene, 1-; (1-Nitrocyclohex-1-ene)	2562-37-0	0.35	1	7.5	40	ppm		**SAR**
2106	Nitrodiphenylamine, 2-	119-75-5	30	100	500	500	mg/m^3		Used p-nitrodiphenylamine (CASRN = 836-30-6).
2107	Nitroethane	79-24-3	100	100	200	1,000	ppm		
2108	Nitrogen	7727-37-9	796,000	796,000	8.32E+05	8.69E+05	ppm	**T-0, P-1, P-2, P-3**	Total Nitrogen.
2109	**Nitrogen dioxide**	**10102-44-0**	0.5	**0.50**	**12**	**20**	ppm		**Interim AEGL-1, -2, -3**

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
2110	Nitrogen mustard hydrochloride	55-86-7	0.75	2.5	4	4	mg/m^3		
2111	**Nitrogen mustard; (Bis(b-chloroethyl)methylamine)**	**51-75-2**	1.00E-03	0.003	**0.022**	**0.37**	mg/m^3		**Interim AEGL-2, -3** added.
2112	Nitrogen tetroxide	10544-72-6	0.5	0.5	12	20	ppm	**T-0, P-1, P-2**	
2113	**Nitrogen trifluoride**	**7783-54-2**	10	60	**400**	**800**	ppm		**ERPG-2, -3**
2114	Nitrogen trioxide; (Dinitrogen trioxide)	10544-73-7	5	15	100	500	ppm	**T-0, P-1**	TSCA, HC&P listed, CASRN 12033-49-7 not found, data source uncertain.
2115	Nitroglycerin	55-63-0	0.1	0.1	2	75	mg/m^3		
2116	Nitromethane	75-52-5	20	60	750	750	ppm		PEL-TWA ignored.
2117	Nitromethane-d3; (Trideuteronitromethane)	13031-32-8	20	60	200	750	ppm	**P-2**	Used nitromethane, 72-52-5.
2118	Nitro-m-xylene, 2-; (1,3-Dimethyl-2-nitrobenzene)	81-20-9	10	30	200	500	mg/m^3		SAX MF and MW incorrect. Rat oral LD50 from MSDS.
2119	Nitronium Tetrafluoroborate	13826-86-3	4.37	13.1	21.8	437	mg/m^3	**P-3**	No pchem data found, HHR = 3 from MSDS.
2120	Nitrophenol (mixed isomers)	25154-55-6	0.75	2.5	15	75	mg/m^3		Used most toxic isomer Ts (4-Nitrophenol, 100-02-7).
2121	Nitrophenol, 2-; (o-Nitrophenol)	88-75-5	1.25	4	30	150	mg/m^3		
2122	Nitrophenol, 3-; (m-Nitrophenol)	554-84-7	1.25	4	30	150	mg/m^3		
2123	Nitrophenol, 4-; (p-Nitrophenol)	100-02-7	0.75	2.5	15	75	mg/m^3		Multiple day dosing ignored.
2124	Nitropropane, 1-	108-03-2	25	75	125	1,000	ppm	**P-1, P-2**	Changed "Y" to "N," because less toxic than 2-phenol, 70-46-9.
2125	Nitropropane, 2-	79-46-9	25	30	50	100	ppm		
2126	Nitropyrene, 1-	5522-43-0	0.1	0.3	2	10	mg/m^3		
2127	Nitropyridine-N-oxide, 4-; (Pyridine, 4-nitro, 1-oxide)	1124-33-0	15	50	80	80	mg/m^3		
2128	Nitrosodimethylamine	62-75-9	3.5	10	19	100	mg/m^3	**P-3**	Women 2.5 Y monitoring data ignored.
2129	Nitrosodiphenylamine, p-	156-10-5	0.1	0.3	2	150	mg/m^3		

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
2130	Nitrosodipropylamine; (DPNA)	621-64-7	0.06	0.2	1.25	200	mg/m^3		
2131	Nitrosomorpholine	59-89-2	0.4	1.25	7.5	30	mg/m^3	**T-0, P-1, P-2**	
2132	Nitroso-N-methylurea, N-	684-93-5	0.25	0.75	5	50	mg/m^3	**T-0, P-1, P-2**	
2133	Nitrosophenol, p-	104-91-6	2	6	40	200	mg/m^3		
2134	Nitrosotoluene, 2-; (o-Nitrosotoluene)	611-23-4	7.5	25	150	500	mg/m^3		
2135	Nitrosyl chloride	2696-92-6	0.025	0.075	0.5	2.5	ppm		
2136	Nitrosylsulfuric acid	7782-78-7	1.5	5	35	150	mg/m^3		No toxicity data found.
2137	Nitrotoluene, m-	99-08-1	5	6	50	200	ppm		
2138	Nitrotoluene, o-	88-72-2	5	6	10	200	ppm		
2139	Nitrotoluene, p-	99-99-0	5	6	100	200	ppm	**P-2**	
2140	Nitrous acid	7782-77-6	1.02	1.02	46	179	mg/m^3	**P-1, P-2, P-3**	Used HNO3 limits.
2141	Nitrous oxide	10024-97-2	50	150	10,000	20,000	ppm		
2142	Nonacosane	630-03-5	10	30	50	250	mg/m^3		
2143	Nonanal	124-19-6	2	6	40	500	mg/m^3		
2144	Nonane; (Shellsol 140)	111-84-2	200	600	***1,000***	***1,250***	ppm		See LEL formatting note.
2145	Nonanenitrile; (1-Octyl cyanide)	2243-27-8	26.8	26.8	26.8	134	ppm	**P-2, P-3**	Conc limits as CN.
2146	Nonanoic acid	112-05-0	25	75	500	500	mg/m^3		
2147	Nonanone, 2-	821-55-6	1	3	20	75	ppm		
2148	Nonene, 1-	124-11-8	0.5	1.5	10	50	ppm		HSDB, OHMTADS, TSCA, no toxicity data, estimated.
2149	Nonoxynol-4	7311-27-5	10	30	50	250	mg/m^3		

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Table 2: Protective Action Criteria (PAC) Rev 25
Based on applicable AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
2150	Nonyl alcohol	143-08-8	25	75	500	500	mg/m^3		
2151	Nonyl phenol (mixed isomers)	25154-52-3	6	20	125	500	mg/m^3		
2152	Nonyl phenol, 4- (branched)	84852-15-3	5	15	100	500	mg/m^3		
2153	Nonyl phenol, p-	104-40-5	6	20	125	500	mg/m^3		
2154	Nonylphenol, 4-, branched, ethoxylated	127087-87-0	10	30	200	500	mg/m^3		
2155	Nonylphenoxypolyethoxyethanol	68412-54-4	10	30	50	250	mg/m^3		
2156	**Nonyltrichlorosilane**	**5283-67-0**	0.2	**0.60**	**7.3**	**33**	ppm		**Interim AEGL-1, -2, -3** added.
2157	Norbormide	991-42-4	0.75	2	3.8	3.8	mg/m^3		
2158	Norchlorofluoroepibatidine	z-0034	4.00E-05	1.25E-04	7.50E-04	0.00125	mg/m^3		
2159	Octachlorodibenzodioxin, 1,2,3,4,6,7,8,9-; (OCDD, Octachlorodibenzo-p-dioxin)	3268-87-9	0.004	0.01	0.075	0.4	mg/m^3		
2160	Octachlorodibenzofuran, 1,2,3,4,6,7,8,9-	39001-02-0	0.003	0.0075	0.06	10	mg/m^3		LC50 based on other CDFs.
2161	Octachloronaphthalene	2234-13-1	0.1	0.3	0.3	1	mg/m^3	**P-2**	
2162	Octacosane	630-02-4	21.7	21.7	112	500	ppm		TSCA listed, no toxicity data found.
2163	Octadecane, n-	593-45-3	33.7	33.7	173	750	ppm		TSCA, HC&P listed.
2164	Octadecanoic acid, n-; (Stearic acid)	57-11-4	60	150	500	500	mg/m^3		
2165	Octadecanol, 1-	112-92-5	2.5	7.5	50	***750***	ppm		See LEL formatting note.
2166	Octadecenoic acid, 9-; (Oleic acid)	112-80-1	0.015	0.05	0.4	500	mg/m^3		
2167	Octadecyl methacrylate	32360-05-7	10	30	50	250	mg/m^3		TSCA, HC&P listed, no toxicity data. MSDS MP, SG data. Assumed nonvolatile.
2168	**Octadecyltrichlorosilane**	**112-04-9**	0.2	**0.60**	**7.3**	**33**	ppm		**Interim AEGL-1, -2, -3** Units changed.
2169	Octafluorocyclobutane; (Cyclooctafluorobutane; Freon C-318)	115-25-3	25,000	65,000	2.30E+05	3.00E+05	ppm		

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
2170	Octamethylcyclotetrasiloxane	556-67-2	12.5	35	250	300	ppm		**SAR** Ts = 10, 30, 50, 500 mg/m^3 not used.
2171	Octamethyldiphosphoramide; (Octamethylpyrophosphoramide)	152-16-9	0.15	0.5	0.8	3.5	mg/m^3		
2172	Octanal, 1-; (Octanal; Octanaldehyde)	124-13-0	20	60	500	500	mg/m^3		
2173	Octanamine, 1-	111-86-4	0.4	1.25	7.5	40	mg/m^3		
2174	Octane, n-	111-65-9	300	300	385	***1,000***	ppm		See LEL formatting note.
2175	Octanedione, 2,5-	3214-41-3	20	60	500	500	mg/m^3		Not found in databases. Toxicity based on octane.
2176	Octanenitrile	124-12-9	1.5	4	30	150	ppm		
2177	Octanethiol, 1-	111-88-6	0.025	0.075	0.5	150	ppm		Toxicity data ex HSDB.
2178	Octanoic acid; (Caprylic acid)	124-07-2	40	125	500	500	mg/m^3		
2179	Octanol, 2-	123-96-6	12.5	35	250	350	mg/m^3		HSDB, TSCA give CASRN = 123-96-6, changed from 4128-31-8.
2180	Octanone, 2-	111-13-7	60	200	500	500	mg/m^3	**P-2**	
2181	Octaphenylcyclotetrasiloxane	546-56-5	20	60	400	500	mg/m^3		RTECS LD 50 > 4640 mg/kg.
2182	**Octene, 1-**	**111-66-0**	40	**40**	**800**	***2000***	ppm		**ERPG-1, -2, -3** See LEL formatting note.
2183	Octyl alcohol; (n-Octanol)	111-87-5	50	50	50	350	mg/m^3		
2184	Octyl(phenyl)-N,N-diisobutylcarbamoylmethylphosphine oxide	83242-95-9	10	30	50	250	mg/m^3		
2185	**Octyltrichlorosilane**	**5283-66-9**	0.2	**0.60**	**7.3**	**33**	ppm		**Interim AEGL-1, -2, -3** added.
2186	Oil gas; (Oil fog)	z-0035	350	1,000	7,500	25,000	ppm	**T-0, P-1, P-2, P-3**	
2187	**Oleum; (fuming Sulfuric acid)**	**8014-95-7**	0.2	**0.20**	**8.7**	**160**	mg/m^3		**Interim AEGL-1, -2, -3**
2188	Organorhodium complex	z-0036	0.292	0.8	0.8	292	mg/m^3	**P-3**	MW assumed, insol Rh conc. limits used.
2189	Orthoformic acid, trimethyl ester; (Trimethyl orthoformate)	149-73-5	0.1	0.3	2	10	ppm		An irritant, but no toxicity data found. Rat LC50 based on HR.

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
2190	Osmium	7440-04-2	0.25	0.75	6	30	mg/m^3		
2191	**Osmium tetroxide**	**20816-12-0**	2.00E-04	6.00E-04	**0.0084**	**4.0**	ppm		**Interim AEGL-2, -3**
2192	**Otto Fuel (mainly Propylene glycol dinitrate 6423-43-4)**	**106602-80-6**	0.05	**0.17**	**1.0**	**13**	ppm		**Final AEGL-1, -2, -3**
2193	Ouabain	630-60-4	1.5	5	8.3	12.5	mg/m^3		
2194	Oxalic acid dihydrate	6153-56-6	1	2	100	500	mg/m^3		
2195	Oxalic acid, anhydrous; (Ethanedioic acid)	144-62-7	1	2	40	500	mg/m^3		
2196	Oxalyl chlorine	79-37-8	1.5	5	40	200	ppm		
2197	Oxamide	471-46-5	1.5	5	40	200	mg/m^3		
2198	Oxamyl	23135-22-0	0.35	1	1.7	15	mg/m^3		
2199	Oxathiane, 1,4-	15980-15-1	4	12.5	75	400	ppm		
2200	Oxirane, ethenyl-; (3,4-Epoxy-1-butene)	930-22-3	3	10	25	25	ppm		
2201	Oxone, monopersulfate compound	37222-66-5	10	30	50	250	mg/m^3		Not found in databases.
2202	Oxybis(N,N-dimethylethanamine), 2,2'-; (Bis(2-dimethylaminoethyl) ether; DMAEE)	3033-62-3	0.05	0.15	15	15	ppm		Added.
2203	Oxydiacetic acid; (Oxodiacetic acid)	110-99-6	2	6	40	200	mg/m^3		
2204	Oxydiethylenedicarbonic acid, diallyl ester	142-22-3	3	10	60	125	mg/m^3		
2205	Oxydiphenoxarsine, 10,10'-; (Phenoxarsine oxide)	58-36-6	1.68	2	14	14	mg/m^3		Organic arsenic compound.
2206	Oxydisulfoton	2497-07-6	0.6	2	3.5	3.5	mg/m^3		
2207	**Oxygen difluoride; (Fluorine monoxide)**	**7783-41-7**	0.05	0.1	**0.83**	**2.5**	ppm		**Interim AEGL-2, -3**
2208	Ozone	10028-15-6	0.1	0.15	1	5	ppm		
2209	Palladium	7440-05-3	2	6	40	200	mg/m^3	**T-0, P-1, P-2**	

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
2210	Palladium chloride	7647-10-1	0.15	0.4	3	500	mg/m^3		
2211	Palladium hydroxide	12135-22-7	0.125	0.3	2.5	75	mg/m^3		**SAR**
2212	Paraffin waxes, petroleum, clay-treated, reaction products with petroleum white mineral oil, stearic acid and triethanolamine	71808-29-2	10	30	50	250	mg/m^3		TSCA-listed.
2213	Paraffin, n-	8002-74-2	2	15	100	500	mg/m^3	**P-2**	
2214	Paraffins, petroleum, normal C5-C20	64771-72-8	300	900	1,500	7,500	ppm	**P-1, P-2, P-3**	RTECS, TSCA listed, no data. Could not trace source, so suppressed rat oral LD50, changed "Y" to "N."
2215	Paraformaldehyde	30525-89-4	4	12.5	75	100	mg/m^3		
2216	Paraldehyde	123-63-7	15	40	300	500	mg/m^3	**T-0, P-1, P-2**	
2217	Paraquat	4685-14-7	0.5	1.5	12.5	150	mg/m^3	**T-0, P-1, P-2**	
2218	Paraquat dichloride	1910-42-5	0.1	0.1	0.15	1	mg/m^3	**T-0, P-1, P-2**	PEL-TWA = 5 x REL-TWA suppressed.
2219	Paraquat methosulfate; (Paraquat dimethyl sulphate)	2074-50-2	0.75	2	15	40	mg/m^3		PEL-TWA > LOC suppressed.
2220	Parathion	56-38-2	0.05	0.15	2	10	mg/m^3	**T-0**	PEL-TWA = 5 x TLV-TWA suppressed.
2221	Paris Green; (Cupric acetoarsenite)	12002-03-8	1.13	3.38	22	22	mg/m^3		Organic arsenic PEL-TWA.
2222	Particulate material (PNOS)	z-0037	10	30	50	250	mg/m^3		PNOS
2223	PBX (mixture of HMX and nitrocellulose [CTN])	z-0038	0.16	2.9	3	500	mg/m^3	**T-0, P-1, P-2**	
2224	**Pentaborane**	**19624-22-7**	0.005	0.015	**0.14**	**0.70**	ppm		**Interim AEGL-2, -3**
2225	Pentachlorobenzene	608-93-5	7.5	25	150	400	mg/m^3	**T-0, P-1**	
2226	Pentachlorodibenzofuran, 1,2,3,7,8-	57117-41-6	0.0025	0.0075	0.06	0.3	mg/m^3		
2227	Pentachlorodibenzofuran, 2,3,4,7,8-	57117-31-4	2.50E-05	7.50E-05	6.00E-04	0.4	mg/m^3		
2228	Pentachlorodibenzo-p-dioxin, 1,2,3,7,8-	40321-76-4	7.50E-04	0.0025	0.015	0.075	mg/m^3		

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
2229	Pentachloroethane	76-01-7	42	126	500	500	mg/m^3	**T-0, P-1**	
2230	Pentachloronitrobenzene	82-68-8	0.5	1.5	300	500	mg/m^3		
2231	Pentachlorophenol	87-86-5	0.5	2.5	2.5	2.5	mg/m^3		
2232	Pentadecafluorooctanoic acid	335-67-1	4	12.5	75	75	mg/m^3		
2233	Pentadecane	629-62-9	3.5	10	60	350	ppm		
2234	Pentadecanoic acid	1002-84-2	0.04	0.125	1	5	ppm		
2235	Pentadecylamine	2570-26-5	0.1	0.3	2	100	mg/m^3		
2236	Pentaerythritol	115-77-5	15	30	50	500	mg/m^3		
2237	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	10	30	50	250	mg/m^3		TSCA listed, no MSDS, toxicity or pchem data found.
2238	Pentaerythritol tetranitrate	78-11-5	0.015	0.05	0.35	500	mg/m^3		
2239	Pentafluorobenzoic acid	602-94-8	0.75	2	15	75	mg/m^3		
2240	Pentafluoropropane, 1,1,1,3,3-	460-73-1	300	900	60,000	60,000	ppm		
2241	Pentane, n-	109-66-0	120	120	610	***1,500***	ppm	**T-0, P-1**	See LEL formatting note. Suppressed both PEL- and TLV-TWA >> REL-TWA.
2242	Pentanediol, 1,5-	111-29-5	7.5	25	150	500	mg/m^3		
2243	Pentanedione, 2,4-; (Acetylacetone)	123-54-6	15	50	100	100	ppm		
2244	Pentanenitrile	110-59-8	1.5	4	25	25	ppm		
2245	Pentanol, 2-; (sec-Amyl alcohol; Methyl propyl carbinol; Isoamyl alcohol, secondary)	6032-29-7	100	100	100	350	ppm	**P-1, P-2, P-3**	OSHA PEL-TWA ex RTECS.
2246	Pentanone, 2-; (Methyl propyl ketone)	107-87-9	150	150	150	***1,500***	ppm		See LEL formatting note.
2247	Pentanone, 3-; (Diethyl ketone)	96-22-0	200	300	300	750	ppm		

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
2248	Pentatriacontane	630-07-9	10	30	50	250	mg/m^3		
2249	Pentene, 1-	109-67-1	300	750	***6,000***	***75,000***	ppm		HSDB TClo used. RTECS data added. See LEL formatting note.
2250	Pentobarbital sodium; (Nembutal sodium)	57-33-0	0.15	0.5	3.5	50	mg/m^3		
2251	Pentyl alcohol, tert-; (tert-Amyl alcohol)	75-85-4	60	100	100	100	ppm		Pchem data varies in sources. Irritant in HSDB.
2252	Peptone; (Hydrolized protein, Tryptones)	73049-73-7	10	30	50	250	mg/m^3		TSCA, H&N listed with Tryptones, no toxicity data found.
2253	**Peracetic acid**	**79-21-0**	0.15	**0.52**	**1.60**	**15**	mg/m^3		**Interim AEGL-1, -2, -3** Units changed from ppm to mg/m^3.
2254	Perboric acid, sodium salt	7632-04-4	0.5	1.5	10	500	mg/m^3		
2255	Perchloric acid	7601-90-3	1	3.5	20	100	ppm		
2256	Perchloric acid, zinc salt, hexahydrate	10025-64-6	0.6	1.5	12.5	60	mg/m^3		
2257	**Perchloroethylene; (Tetrachloroethylene)**	**127-18-4**	25	**35**	**230**	**1200**	ppm		**Interim AEGL-1, -2, -3** PEL-TWA > AEGL-1, suppressed.
2258	**Perchloromethyl mercaptan**	**594-42-3**	0.013	**0.013**	**0.30**	**0.90**	ppm		**Interim AEGL-1, -2, -3**
2259	Perchloryl fluoride; (Chlorine oxyfluoride)	7616-94-6	3	6	20	100	ppm		PEL-TWA, TLV-STEL, IDLH.
2260	Percoll	65455-52-9	10	30	50	250	mg/m^3		Not found in databases, assumed nonvolatile liquid.
2261	Perfluoro compounds, C5-C18; (Fluorinert electronic liquid perfluoro compounds)	86508-42-1	200	600	4,000	25,000	ppm		RTECS has LC > 40000 ppm. Pchem data varies between sources.
2262	Perfluoroalkylether polymer; (Capped homopolymers of hexafluoropropylene epoxide, Fluorine End-)	60164-51-4	75	250	500	500	mg/m^3		Added. TSCA listed, no toxicity data, HHR = 1 ex SRS .
2263	**Perfluoroisobutylene; (Octafluoro-sec-butene)**	**382-21-8**	0.005	0.015	**0.1**	**0.3**	ppm		**ERPG-2, -3**
2264	Perfluoropolyether; (1,1,2,3,3,3-Hexafluoro-1-propene, oxidized, polymerized; Vacuum pump oil)	69991-67-9	10	30	200	500	mg/m^3		Toxicity estimated from Hexafluoropropene, MSDS states an irritant.
2265	Periodic acid	10450-60-9	0.18	1.8	1.8	25.8	mg/m^3	**P-1, P-2, P-3**	No toxicity data found, used MW-adjusted iodic acid values.
2266	Periodic acid, sodium salt	7790-28-5	0.25	0.75	5	25	mg/m^3		
2267	Perlite; (Fused NaKAl silicate, < 1% quartz)	93763-70-3	15	45	75	500	mg/m^3		

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
2268	Permafluor E+	z-0039	100	150	500	500	mg/m^3		Mixture ex MSDS.
2269	Permafluor-V (85+% toluene)	z-0040	20	200	1,250	4,500	ppm	**T-0, P-1, P-2, P-3**	Mixture PPO, bis-MSB is 85-90% toluene, 10% methanol.
2270	Peroxydicarbonic acid, disodium salt	3313-92-6	7.5	25	150	500	mg/m^3		
2271	Petrolatum	8009-03-8	15	50	350	500	mg/m^3		
2272	Petroleum 50 thinner; (Paint thinner)	z-0041	7.5	25	150	750	ppm		
2273	Petroleum asphalt	8052-42-4b	1.25	4	25	125	mg/m^3		See Asphalt (ARO500), same CASRN, different toxicity.
2274	Petroleum coke, calcined	64743-05-1	10	30	50	500	mg/m^3		TSCA listed, no toxicity data.
2275	Petroleum distillate	8002-05-9a	350	350	500	500	mg/m^3		See Petroleum (PCR250), same CASRN, different toxicity. Suppressed PEL-TWA.
2276	Petroleum distillates, clay-treated light naphthenic	64742-45-6	20	60	400	500	mg/m^3		
2277	Petroleum distillates, low boiling	68477-31-6	350	350	500	500	mg/m^3		NIOSH petroleum distillates limits used. PEL-TWA suppressed.
2278	Petroleum mineral oil; (Extracts, petroleum, middle distillate solvent)	64742-06-9	10	30	50	250	mg/m^3	**P-2, P-3**	
2279	Petroleum spirits; (Mineral spirits; Soltrol)	64475-85-0	20	60	400	***2,000***	ppm		See LEL formatting note.
2280	Petroleum spirits; (VM & P Naphtha)	8032-32-4	75	75	395	***985***	ppm	**T-0, P-1, P-3**	Changed units from ppm to mg/m^3. See LEL formatting note.
2281	Petroleum; (Petroleum crude oil)	8002-05-9b	87.5	87.5	450	1,100	ppm	**T-0, P-1, P-2, P-3**	Same CASRN as Petroleum distillate, PCS250, different toxicity.
2282	Phenacetin; (p-Acetophenetidide)	62-44-2	0.5	1.5	10	60	mg/m^3	**T-0, P-1, P-2**	
2283	Phenaglycodol; (Ultran; 2-p-Chlorophenyl-3-methyl-2,3-butanediol)	79-93-6	3.5	10	75	350	mg/m^3	**T-0, P-1, P-2**	
2284	Phenanthrene	85-01-8	2	6	20	20	mg/m^3	**T-0, P-1, P-2, P-3**	
2285	Phenanthroline ferrous sulfate, 1,10-	14634-91-4	10	30	50	250	mg/m^3		
2286	Phenanthroline, 1,10-	66-71-7	0.1	0.3	2	30	mg/m^3		
2287	**Phenol**	**108-95-2**	5	**15**	**23**	**200**	ppm		**Final AEGL-1, -2** **ERPG-1, -2, -3**

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Table 2: Protective Action Criteria (PAC) Rev 25
Based on applicable AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
2288	Phenol red, sodium salt	34487-61-1	7.5	25	150	500	mg/m^3		TSCA listed, no toxicity data found.
2289	Phenol, polymer with formaldehyde, oxiranylmethyl ether	28064-14-4	15	50	350	500	mg/m^3		TSCA listed mixture, no toxicity data, MSDS state, BP, VP, SG.
2290	Phenolphthalein	77-09-8	0.75	2.5	15	400	mg/m^3		
2291	Phenoxyethanol, 2-; (Phenyl cellosolve)	122-99-6	20	20	20	100	ppm		
2292	**Phenyl Chloroformate; (Carbonochloridic acid, phenyl ester)**	**1885-14-9**	0.0075	0.025	**0.19**	**0.57**	ppm		**Interim AEGL-2, -3** Pchem data ex MSDS.
2293	**Phenyl dichloroarsine; (Dichlorophenylarsine)**	**696-28-6**	0.061	0.061	**0.061**	**0.18**	mg/m^3		**Interim AEGL-2, -3**
2294	Phenyl ether; (Diphenyl ether)	101-84-8	1	2	20	100	ppm		
2295	Phenyl isocyanate	103-71-9	0.3	0.75	2	2	mg/m^3		
2296	Phenyl sepharose cl-4b	69106-59-8	10	30	50	250	mg/m^3		Name corrected. Not found in databases, no MSDS for this CASRN. MSDS for Phenyl sepharose 6-fast flow gives HHR = 2.
2297	Phenyl-1,2-propanedione, 1-	579-07-7	2.5	7.5	50	250	mg/m^3		
2298	Phenyl-2-oxazoline, 2-	7127-19-7	1	3	5	25	ppm		Not found in databases. No useful data in MSDS.
2299	Phenyl-2-propanol, 2-; (Dimethylphenylmethanol)	617-94-7	1	3	20	100	ppm		**SAR** Ts = 4, 12.5, 100, 200 mg/m^3 not used.
2300	Phenylacetylene; (Ethynylbenzene)	536-74-3	40	100	500	500	mg/m^3		
2301	Phenylazo)aniline, p-(	60-09-3	0.6	2	12.5	75	mg/m^3		
2302	Phenylboric acid; (Benzeneboronic acid)	98-80-6	3	7.5	60	300	mg/m^3		
2303	Phenylcyclohexane; (Cyclohexylbenzene)	827-52-1	40	125	500	500	mg/m^3		Mouse ip LD50 ignored.
2304	Phenylene diisocyanate, 1,4-	104-49-4	3.5	10	35	35	mg/m^3		
2305	Phenylenediamine dihydrochloride, 1,2-	615-28-1	10	30	125	125	mg/m^3		
2306	Phenylenediamine dihydrochloride, 1,4-	624-18-0	0.6	1.5	12.5	60	mg/m^3		

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No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
2307	Phenylenediamine, 1,2-; (o-Phenylenediamine)	95-54-5	0.1	0.3	200	500	mg/m^3		
2308	Phenylenediamine, 1,3-; (m-Phenylenediamine)	108-45-2	0.1	0.3	10	125	mg/m^3		
2309	Phenylenediamine, p-	106-50-3	0.1	0.6	4	25	mg/m^3		
2310	Phenylhydrazine	100-63-0	0.1	0.3	2	15	ppm		PEL-TWA and REL-C ignored.
2311	Phenylhydrazine hydrochloride	59-88-1	50	150	250	250	mg/m^3		
2312	Phenylmagnesium bromide	100-58-3	1.5	5	35	150	mg/m^3		No toxicity or pchem data found, HHR = 3 from MSDS.
2313	Phenylmercury acetate; (Acetoxyphenylmercury)	62-38-4	0.168	16.8	16.8	16.8	mg/m^3		As mercury compounds.
2314	Phenylphenol, 2-	90-43-7	25	75	500	500	mg/m^3		
2315	Phenylphosphine	638-21-1	0.01	0.03	0.05	15	ppm		
2316	Phenylpropanolamine hydrochloride; (Propadrine hydrochloride)	154-41-6	0.06	0.15	1.25	500	mg/m^3		
2317	Phenylsilatrane	2097-19-0	0.2	0.6	1	1	mg/m^3		
2318	Phenylthiourea; (1-Phenyl-2-thiourea)	103-85-5	0.6	1.5	3	3	mg/m^3	**T-0, P-1**	PNOS inappropriate, deleted.
2319	Phenyltriethoxysilane	780-69-8	10	35	250	500	mg/m^3		
2320	Phenyltrimethoxysilane	2996-92-1	1.5	4	30	150	mg/m^3		
2321	Phenylxylylethane; (PXE)	6196-95-8	10	30	50	250	mg/m^3		CHRIS listed, no toxicity data found.
2322	Phloroglucinol dihydrate	6099-90-7	4	12.5	75	400	mg/m^3		Mouse LD > 500 mg/kg.
2323	Phorate	298-02-2	0.05	0.1	0.6	0.6	mg/m^3		
2324	Phosacetim	4104-14-7	0.75	2	3.7	3.7	mg/m^3		
2325	Phosfolan	947-02-4	1.5	5	9	9	mg/m^3		
2326	**Phosgene**	**75-44-5**	0.1	0.1	**0.30**	**0.75**	ppm		**Final AEGL-2, -3**

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Table 2: Protective Action Criteria (PAC) Rev 25
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No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
2327	Phosmet	732-11-6	0.025	0.075	0.54	40	mg/m^3		
2328	Phosphamidon; (Famfos)	13171-21-6	0.06	0.15	0.3	60	mg/m^3		
2329	**Phosphine**	**7803-51-2**	0.3	1	**2.0**	**3.6**	ppm		**Final AEGL-2, -3**
2330	Phosphomolybdic acid	11104-88-4	0.833	2.5	4.17	500	mg/m^3	**T-0, P-1, P-2, P-3**	TSCA listed, no toxicity or pchem data found. SG and HR ex SRS. Soluble Mo compound limits.
2331	Phosphonic acid	13598-36-2	0.006	0.015	0.125	500	mg/m^3	**T-0, P-1, P-2**	
2332	Phosphonic acid, dioctadecyl ester	19047-85-9	0.02	0.06	0.4	2	mg/m^3		**SAR**
2333	Phosphonic acid, tridodecyl ester	3076-63-9	12.5	40	250	500	mg/m^3		Rat oral LD > 3160 mg/kg.
2334	Phosphoric acid	7664-38-2	1	3	500	500	mg/m^3		
2335	Phosphoric acid, dimethyl-p-(methylthio)phenyl ester	3254-63-5	1.25	4	7	7	mg/m^3		
2336	Phosphorous acid, o-; (Phosphonic acid)	10294-56-1	1	3	500	500	mg/m^3	**P-2**	TSCA and ChemFinder listed with no pchem or toxicity data. Assumed phosphoric acid limits.
2337	Phosphorous pentafluoride	7647-19-0	0.644	1.93	3.22	64.4	ppm	**P-1, P-2**	Changed "Y" to "N."
2338	Phosphorous trifluoride	7783-55-3	1.07	3.22	5.37	107	ppm	**P-1, P-2**	Changed "Y" to "N."
2339	Phosphorus (red)	7723-14-0	0.05	0.15	3	5	mg/m^3	**T-0, P-1, P-2, P-3**	
2340	Phosphorus (yellow); (White phosphorus)	12185-10-3	0.1	0.2	0.6	0.6	mg/m^3	**P-1, P-2, P-3**	
2341	**Phosphorus oxychloride**	**10025-87-3**	0.1	0.479	0.479	**0.85**	ppm		**Interim AEGL-3**
2342	Phosphorus pentachloride	10026-13-8	1	3	20	70	mg/m^3	**P-1, P-2**	
2343	Phosphorus pentasulfide	1314-80-3	1	3	50	250	mg/m^3		
2344	**Phosphorus pentoxide**	**1314-56-3**	1	**1**	**10**	**50**	mg/m^3		**ERPG-1, -2, -3**
2345	**Phosphorus trichloride**	**7719-12-2**	0.34	**0.34**	**2.0**	**5.6**	ppm		**Interim AEGL-1, -2, -3**
2346	Phosphorus trioxide	1314-24-5	0.4	1.25	7.5	40	mg/m^3		No toxicity data found, LC50 based on SAX HR.

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No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
2347	Phthalic acid	88-99-3	0.02	0.06	0.5	500	mg/m^3		
2348	Phthalic acid, benzyl butyl ester; (Benzyl butyl phthalate)	85-68-7	5	15	500	500	mg/m^3		
2349	Phthalic anhydride	85-44-9	12	12	40	60	mg/m^3		
2350	Phthaloyl dichloride; (Phthaloyl chloride)	88-95-9	0.1	0.3	2	10	ppm		TSCA listed, no toxicity data found. HHR =3 from MSDS.
2351	Phyllomedusin	26145-48-2	10	30	50	250	mg/m^3	Added.	Added. Not found in databases. PNOS default used.
2352	Physostigmine	57-47-6	0.75	2.5	4.5	4.5	mg/m^3		
2353	Physostigmine salicylate (1:1)	57-64-7	0.5	1.5	2.5	2.5	mg/m^3		
2354	Picolinic acid; (2-Pyridinecarboxylic acid)	98-98-6	10	35	150	150	mg/m^3		HC&P pchem data.
2355	Picric acid	88-89-1	0.1	0.3	15	75	mg/m^3		
2356	Picrotoxin	124-87-8	3	7.5	15	15	mg/m^3		
2357	Pigment green 36	14302-13-7	15	50	350	500	mg/m^3		
2358	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	75	250	500	500	mg/m^3		
2359	Pigment yellow 14	5468-75-7	20	60	400	500	mg/m^3		
2360	Pigment yellow 36; (Zinc chromate)	13530-65-9	0.01	0.15	1	15	mg/m^3	**T-0, P-1, P-2, P-3**	
2361	Pinacolone; (3,3-Dimethyl-2-butanone)	75-97-8	1.5	4.88	200	1,000	ppm		
2362	Pinacolyl alcohol; (tert-Butyl methyl carbinol)	464-07-3	250	750	750	750	ppm		
2363	Piperazine	110-85-0	2	6	40	500	mg/m^3		
2364	**Piperidine**	**110-89-4**	1	**6.6**	**33**	**110**	ppm		**Interim AEGL-1, -2, -3**
2365	Piperonyl Butoxide	51-03-6	100	300	500	500	mg/m^3	Added.	Added.
2366	Pirimifos-ethyl	23505-41-1	5	15	25	60	mg/m^3		

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
2367	Pivalic anhydride; (Trimethylacetic anhydride)	1538-75-6	10	30	50	250	mg/m^3		TSCA listed, no toxicity data, no MSDS found, assumed non-volatile.
2368	Platinum	7440-06-4	1	3	4	4	mg/m^3		
2369	Platinum cyanide	592-06-3	0.00253	0.0076	0.0127	5.07	mg/m^3		
2370	Poly alpha olefin; (Synthetic hydrocarbon mixture, PAO; Hydrogenated trimer and tetramer of decene)	68649-12-7	2.5	7.5	50	250	mg/m^3	**T-0, P-1**	
2371	Poly(1-(2-oxo-1-pyrrolidinyl)ethylene)iodine complex; (Iodine solutions)	25655-41-8	15	50	400	500	mg/m^3	**T-0**	
2372	Poly(1-vinyl-2-pyrrolidinone) homopolymer; (Polyvinylpyrrolidone; Plasdone)	9003-39-8	100	300	500	500	mg/m^3		RTECS 9 listings, used "homopolymer."
2373	Poly(acrylamide-co-diallyldimethylammonium chloride)	26590-05-6	10	30	50	250	mg/m^3		TSCA listed, no toxicity data found.
2374	Poly(dimethylsiloxane), ethoxylated, dihydroxy terminated; (Silicon oil polymer)	68037-63-8	75	250	500	500	mg/m^3		TSCA listed, no toxicity data found, HHR =1 estimated.
2375	Poly(dimethylsiloxane), hydride terminated	70900-21-9	10	30	50	250	mg/m^3		TSCA listed, no toxicity or pchem data found.
2376	Poly(dimethylsiloxane), vinyl dimethylsiloxy terminated	68083-19-2	60	200	500	500	mg/m^3		RTECS rat LD50 > 16 mL/kg. No pchem data found, SG = 1 assumed.
2377	Poly(divinylbenzene); (Diethenylbenzene homopolymer)	9003-69-4	7.5	25	150	500	mg/m^3		No toxicity data but MSDS HHR = 2. Name changed.
2378	Poly(ethylene glycol methyl ether)	9004-74-4	75	250	500	500	mg/m^3		Lowest MW and most toxic of three entries chosen, assumed SG - 1.
2379	Poly(ethylene glycol)diacrylate	26570-48-9	1.5	5	35	150	mg/m^3		TSCA listed, no toxicity or pchem data found, HHR = 3 in MSDS.
2380	Poly(melamine-co-formaldehyde), methylated	68002-20-0	60	150	500	500	mg/m^3		MW average.
2381	Poly(oxy-1,2-ethanediyl), alpha-(4-octylphenyl)-omega-hydroxy-; (Polyethylene glycol mono(p-octylphenol)ether)	26636-32-8	3	7.5	60	300	mg/m^3		
2382	Poly(oxyethylene)(2) stearyl ether	9005-00-9	7.5	20	150	500	mg/m^3		Most toxic of three RTECS entries used.
2383	Poly(Styrene-co-divinylbenzene); (Dowex Optipore V-502)	69011-14-9	10	30	50	250	mg/m^3		TSCA listed, no pchem or toxicity data found.
2384	Poly[oxy(methyl-1,2-ethanediyl)], alpha-hydro-omega-(2-aminomethylethoxy)-, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1); (Polyoxypropylene polyamine)	39423-51-3	10	30	50	250	mg/m^3		Name changed, no toxicity or pchem data found.
2385	Polyamide 6; (Capron; Poly(iminocarbonylpentamethylene))	25038-54-4	10	30	200	500	mg/m^3		MW = 111 x n.

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
2386	Polybutyl acrylate	9003-49-0	10	30	50	250	mg/m^3		No toxicity data found.
2387	Polychlorinated biphenyl (Aroclor 1016); (Chlorodiphenyl (41% Cl))	12674-11-2	0.2	0.6	1	5	mg/m^3		
2388	Polychlorinated biphenyl (Aroclor 1016/1242): (Chlorodiphenyl (37% Cl))	z-0042	0.2	0.6	1	5	mg/m^3		
2389	Polychlorinated biphenyl (Aroclor 1221); (Chlorodiphenyl (21% Cl))	11104-28-2	0.2	0.6	1	5	mg/m^3		
2390	Polychlorinated biphenyl (Aroclor 1232); (Chlorodiphenyl (32% Cl))	11141-16-5	0.2	0.6	1	5	mg/m^3		
2391	Polychlorinated biphenyl (Aroclor 1242); (Chlorodiphenyl (42% Cl))	53469-21-9	1	3	5	5	mg/m^3		
2392	Polychlorinated biphenyl (Aroclor 1248); (Chlorodiphenyl (48% Cl))	12672-29-6	0.2	0.6	1	5	mg/m^3		
2393	Polychlorinated biphenyl (Aroclor 1254); (Chlorodiphenyl (54% Cl))	11097-69-1	0.5	1.5	2.5	5	mg/m^3		
2394	Polychlorinated biphenyl (Aroclor 1260); (Chlorodiphenyl (60% Cl))	11096-82-5	0.2	0.6	1.5	5	mg/m^3		
2395	Polychlorinated biphenyl (Aroclor 1260/1262): (Chlorodiphenyl (61% Cl?))	z-0043	0.2	0.6	1.5	5	mg/m^3		Used Aroclor 60% Cl. LANL CASRN not used since it is for 60% Cl.
2396	Polychlorinated biphenyl (Aroclor 1262); (Chlorodiphenyl (62% Cl))	37324-23-5	1	3	5	5	mg/m^3		
2397	Polychlorinated biphenyl (Aroclor 1268); (Chlorodiphenyl (68% Cl))	11100-14-4	0.2	0.6	1	5	mg/m^3		Used IDLH for other aroclors.
2398	Polychlorinated biphenyl; (Aroclor; PCBs)	1336-36-3	1	3	5	5	mg/m^3		MW range = 292-361.
2399	Polydimethyl siloxane; (Dimethylpolysiloxane)	9016-00-6	7.5	25	150	500	mg/m^3		Rat ip LD50.
2400	Polyether polyol ester	z-0112	15	50	350	500	mg/m^3		Listed in RTECS, no CASRN or pchem data.
2401	**Polyethylbenzene residue; (Dowtherm Q)**	**68987-42-8**	1	3	**19.2**	100	ppm		**ERPG-2 only (150 mg/m^3).**
2402	Polyethylene	9002-88-4	1.25	4	30	500	mg/m^3	**T-0, P-1, P-2**	
2403	Polyethylene glycol	25322-68-3	10	60	500	500	mg/m^3		
2404	Polyethylene glycol 20M	37225-26-6	350	500	500	500	mg/m^3	**T-0, P-1**	No toxicity data, CASRN 37225-26-6, SAX PJT000 data used.
2405	Polyethylene glycol dimethacrylate	25852-47-5	10	30	50	250	mg/m^3		TSCA listed, no toxicity or pchem data found.

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No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
2406	Polyglycol 15-200; (Oxirane, 2-methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1); Calthane NF and ND "B")	9082-00-2	40	125	500	500	mg/m^3		
2407	Polyisocyanate prepolymer (based on MDI)	z-0115	0.6	1.5	12.5	60	mg/m^3		Added. Used "… -hexamethalene-1,6-diisocyanate-based-," RTECS NQ9190000.
2408	Polymaleic acid; (2-Butenediiodic acid homopolymer)	26099-09-2	10	30	50	250	mg/m^3		TSCA listed, no toxicity or pchem data found.
2409	Polymerized linseed oil	67746-08-1	7.5	25	150	500	mg/m^3		TSCA listed. No toxicity or pchem data found. No MSDS found. SRS HHR = 2.
2410	Polymethylene polyphenyl isocyanate; (Polymeric diphenylmethane diisocyanate)	9016-87-9	2	6	40	200	mg/m^3		
2411	Polymethylhydrosiloxane; (Methyl hydrogen polysiloxane)	63148-57-2	10	30	50	250	mg/m^3		TSCA and ChemFinder listed, no pchem or toxicity data found.
2412	Polymethylmethacrylate; (Lucite)	9011-14-7	5	15	100	500	mg/m^3		
2413	Polyoxyalkyleneamine; (Poly(oxypropylene)diamine)	9046-10-0	1	3	20	100	mg/m^3	**T-0, P-1, P-2**	
2414	Polyoxyethylene (20) sorbitan monolaurate	9005-64-5	3	7.5	60	500	mg/m^3		Polysorbate 20 same CASRN, less toxic.
2415	Polyoxyethylene monooctylphenyl ether	9036-19-5	15	50	350	500	mg/m^3		
2416	Polyoxyethylene sorbitan monopalmitate; (Tween 40)	9005-66-7	12.5	40	250	500	mg/m^3		No pchem data found.
2417	Polyphosphoric acid	8017-16-1	1.5	5	40	200	mg/m^3		No toxicity data, based Ts on MSDS data.
2418	Polypropylene	9003-07-0	12.5	40	250	500	mg/m^3		SAX PKI250 has same CASRN for "combustion products," tox. data not used.
2419	Polypropylene glycol, (chloromethyl) oxirane polymer	9072-62-2	7.5	25	150	500	mg/m^3		Rat oral LD50 > 2 g/kg. No MSDS found.
2420	Polypropylene glycol, polytetramethylene glycol, 1,3-diisocyanatomethylbenzene polymer	65636-36-4	10	30	50	250	mg/m^3		Polyurethane prepolymer of MDI + polyether polyol deleted, does not match MF, MW, CASRN. No toxicity or pchem data found.
2421	Polypropylene glycols	25322-69-4	10	30	200	500	mg/m^3		RTECS has 16 listings, used PPG 425.
2422	Polypropylene-polyethylene glycol; (Pluronic L-81)	9003-11-6	10	30	200	500	mg/m^3		
2423	Polysorbate 85; (Tween 85)	9005-70-3	75	250	500	500	mg/m^3		No toxicity data found.
2424	Polystyrene resin; (Styrene polymer)	9003-53-6	0.75	2	15	75	mg/m^3	**T-0, P-1, P-2**	

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
2425	Polysulfone resin	25135-51-7	10	30	50	250	mg/m^3		Not found in databases.
2426	Polytetrafluoroethylene; (Teflon)	9002-84-0	3.5	10	60	350	mg/m^3		
2427	Polyurethane foam; (Urethane polymers)	9009-54-5	0.2	0.6	5	25	mg/m^3		
2428	Polyurethane prepolymer of MDI and PEP	68092-58-0	10	30	50	250	mg/m^3		Listed in TSCA, no pchem or toxicity data.
2429	Polyvinyl alcohol	9002-89-5	40	125	500	500	mg/m^3		
2430	Polyvinyl chloride	9002-86-2	1	3	40	200	mg/m^3		New TLV-TWA and toxicity data added.
2431	Potassium	7440-09-7	0.075	0.2	1.5	300	mg/m^3		
2432	Potassium acetate	127-08-2	12.5	40	250	500	mg/m^3		
2433	Potassium acid fluoride	7789-29-9	5.14	15.4	25.7	500	mg/m^3		
2434	Potassium aluminate	12003-63-3	7.27	21.8	36.3	150	mg/m^3		No toxicity data found.
2435	Potassium aluminite	z-0044	2.5	7.5	12.5	500	mg/m^3		**SAR**
2436	Potassium aluminosilicate	1327-44-2	5	30	50	500	mg/m^3		**SAR**
2437	Potassium antimonate; (Antimony potassium oxide)	29638-69-5	1.05	3.15	5.26	105	mg/m^3	**T-0, P-1, P-2, P-3**	No toxicity data found.
2438	Potassium antimonate; (Potassium hexahydroxyantimonate)	12208-13-8	1.08	3.24	5.4	108	mg/m^3		Used H&N MW & MF for this CASRN. KSbO3 not found.
2439	Potassium antimonite	z-0045	0.94	2.82	4.7	94	mg/m^3		
2440	Potassium argentate	z-0046	0.0168	0.0503	0.0839	16.8	mg/m^3		
2441	Potassium arsenate; (Monopotassium arsenate)	7784-41-0	0.024	0.35	2.5	12	mg/m^3	**P-1**	MW and MF differ by one H in RTECS, HSDB, etc.
2442	Potassium arsenite; (Potassium metaarsenite)	10124-50-2	0.0533	2	14	26.7	mg/m^3	**P-1, P-2**	Used RTECS, HSDB, H&N, TSCA CASRN, MW, MF.
2443	Potassium arsenite; (Arsenous acid, potassium salt)	13464-35-2	0.0195	0.0585	6	9.74	mg/m^3		
2444	Potassium beryllium oxide	z-0047	0.016	0.016	0.02	32	mg/m^3	**P-1, P-2**	

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
2445	Potassium bicarbonate	298-14-6	12.5	35	60	500	mg/m^3		TSCA MF = C-H2-O3.K; both H&N and HC&P same as SAX; no toxicity data found. **SAR**
2446	Potassium bi-iodate	13455-24-8	4	12.5	75	400	mg/m^3		TSCA listed, No pchem data found, MSDS toxicity data.
2447	Potassium bismuthate	12589-75-2	1.25	4	25	200	mg/m^3		RTECS CASRN, with mw = 296.08, MF = Bi-O3.K., lists both LD50 & TDlo. **SAR**
2448	Potassium bisulfate	7646-93-7	10	30	200	500	mg/m^3		
2449	Potassium bromate	7758-01-2	0.1	0.3	60	60	mg/m^3		
2450	Potassium bromide	7758-02-3	12.5	40	250	500	mg/m^3		
2451	Potassium cadminate	z-0048	0.0115	0.069	0.115	20.7	mg/m^3		MF based on MW.
2452	Potassium carbonate	584-08-7	7.5	20	150	500	mg/m^3	**T-0**	
2453	Potassium chlorate	3811-04-9	12.5	40	300	350	mg/m^3		
2454	Potassium chloride	7447-40-7	1.5	5	15	15	mg/m^3		
2455	Potassium chromate(VI)	7789-00-6	0.0187	0.75	6	56	mg/m^3		
2456	Potassium citrate	866-84-2	1.25	4	30	150	mg/m^3		
2457	Potassium citrate, monohydrate	6100-05-6	10	30	50	250	mg/m^3		Not found in databases.
2458	Potassium columbate; (Potassium niobate)	12030-85-2	12.5	35	250	500	mg/m^3		
2459	Potassium cyanide	151-50-8	5	5	5	62.6	mg/m^3		
2460	Potassium dichromate	7778-50-9	0.0141	1.5	10	42.4	mg/m^3		
2461	Potassium dideuterium phosphate	13761-79-0	0.0015	0.004	0.0075	0.015	mg/m^3		ChemFinder MF = D2.K.O4.P, MW = 138.08936.
2462	Potassium ferricyanide	13746-66-2	5.9	17.7	30	500	mg/m^3		
2463	Potassium ferrocyanide; (Tetrapotassium hexacyanoferrate)	13943-58-3	11.8	35.4	59	59	mg/m^3		"Trihydrate" removed from name and MF, CASRN and MW correct.
2464	Potassium fluoride	7789-23-3	7.65	22.9	38.2	500	mg/m^3		

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
2465	Potassium fluoride dihydrate	13455-21-5	12.4	37.2	61.9	500	mg/m^3		
2466	Potassium formate	590-29-4	20	60	500	500	mg/m^3		
2467	Potassium glycolate	1932-50-9	7.5	20	150	750	ppm		**SAR**
2468	Potassium gold cyanide	554-07-4	27.7	83	138	138	mg/m^3		No toxicity or pchem data found, MW and MF ex ChemFinder.
2469	Potassium hexacyanoferrate(II) trihydrate; (Potassium ferricyanide trihydrate)	14459-95-1	13.5	40.6	67.6	67.6	mg/m^3		
2470	Potassium hexafluorosilicate; (Silicate(2-), hexafluoro-, dipotassium)	16871-90-2	0.4	1.25	7.5	60	mg/m^3		
2471	Potassium hydride	7693-26-7	1.5	5	35	150	mg/m^3		No toxicity data found.
2472	Potassium hydrogen lead oxide	z-0049	0.06	0.06	0.06	125	mg/m^3		**SAR**
2473	Potassium hydrogen metasilicate	z-0051	10	30	50	250	mg/m^3		Not found in databases. MF changed.
2474	Potassium hydrogen pyrophosphate	z-0050	4	12.5	20	400	mg/m^3		**SAR**
2475	Potassium hydroxide	1310-58-3	0.1	0.3	2	125	mg/m^3		
2476	Potassium iminodiacetate; (Potassium IDA)	z-0052	4	12.5	100	500	ppm		Disodium iminodiacetate is CASRN 928-72-3, MW = 177.08. MW does not match MF. **SAR**
2477	Potassium iodate	7758-05-6	20	60	60	60	mg/m^3		
2478	Potassium iodide	7681-11-0	0.25	0.75	6	300	mg/m^3		
2479	Potassium lanthanate	z-0053	0.4	1.25	2.5	2.5	mg/m^3		**SAR**
2480	Potassium metaborate	13709-94-9	12.5	35	250	500	mg/m^3		CASRN ex LANL added, TSCA MF, MW used. **SAR**
2481	Potassium molybdate	13446-49-6	1.24	3.72	6.21	500	mg/m^3	**T-0, P-1, P-2**	
2482	Potassium nickel oxide (liquids); (Nickel potassium oxide)	50811-97-7	2.88	2.88	3	28.8	mg/m^3		
2483	Potassium nickelate (liquids)	z-0055	3.49	3.49	3.5	34.9	mg/m^3		
2484	Potassium nickelate (solids)	z-0056	3.49	3.49	3.5	34.9	mg/m^3		

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
2485	Potassium nitrate	7757-79-1	1	3.5	25	500	mg/m^3		SAX MW incorrect.
2486	Potassium nitrilotriacetate; (Potassium NTA)	2399-85-1	5	15	100	500	mg/m^3		
2487	Potassium nitrite	7758-09-0	0.04	0.1	0.75	500	mg/m^3		
2488	Potassium orthovanadate	14293-78-8	0.228	1	7	159	mg/m^3	**T-0, P-1, P-2, P-3**	
2489	Potassium oxalate	583-52-8	7.5	25	150	500	mg/m^3		MF and MW from RTECS, TSCA and SAX used but differ from HC&P, H&N, ChemFinder.
2490	Potassium oxalate monohydrate	6487-48-5	7.5	25	150	500	mg/m^3		No toxicity data found. Used Potassium oxalate, CASRN 583-52-8.
2491	Potassium oxide	12136-45-7	0.1	0.3	2	125	mg/m^3	**T-0, P-1, P-2, P-3**	Added. No toxicity or conc. limit data found. Based on KOH values.
2492	Potassium perchlorate	7778-74-7	125	400	500	500	mg/m^3		
2493	Potassium periodate	7790-21-8	1	3	20	100	mg/m^3		Rat LC50 estimated from HR.
2494	Potassium permanganate	7722-64-7	0.575	8.63	14.4	500	mg/m^3	**P-3**	
2495	Potassium persulfate; (Dipotassium persulfate)	7727-21-1	0.1	10	60	350	mg/m^3	**P-1**	
2496	Potassium phosphate dibasic trihydrate	16788-57-1	300	500	500	500	mg/m^3		Not found, but K phosphate dibasic, CASRN = 7758-11-4, SAX PLQ400 toxicity used.
2497	Potassium phosphate, dibasic	7758-11-4	10	30	50	250	mg/m^3		
2498	Potassium phosphate, monobasic	7778-77-0	10	30	50	500	mg/m^3		
2499	Potassium phosphate, tribasic	7778-53-2	10	30	50	500	mg/m^3		
2500	**Potassium phosphide**	**20770-41-6**	0.4	1.25	**2.0**	**3.6**	ppm		**Final AEGL-2, -3**
2501	Potassium pyrophosphate; (Tetrapotassium diphosphorate)	7320-34-5	125	350	500	500	mg/m^3	**T-0, P-1**	
2502	Potassium pyrosulfate; (Disulfuric acid, dipotassium salt)	7790-62-7	10	30	50	250	mg/m^3		
2503	Potassium pyrosulfite; (Potassium metabisulfite)	16731-55-8	20	60	400	500	mg/m^3		MF and MW vary between sources.
2504	Potassium selenate	7790-59-2	0.56	1.68	2.8	2.8	mg/m^3		

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
2505	Potassium selenite	10431-47-7	0.52	1.56	2.6	2.6	mg/m^3	**P-1, P-2**	TSCA MF = 2K.H2SeO3.
2506	Potassium silicate; (Silicic acid, potassium salt)	1312-76-1	10	30	50	250	mg/m^3		Listed in HSDB and TSCA.
2507	Potassium silver cyanide	506-61-6	0.0184	2.5	18.4	18.4	mg/m^3	**T-0, P-1, P-2, P-3**	
2508	Potassium stannate	12142-33-5	2.5	7.5	12.5	125	mg/m^3		**SAR Potassium stannate trihydrate has CASRN = 12125-03-0 mu iv LD50, and Sn compound limits, Ts are 4, 12.5, 20, 150**
2509	Potassium strontium phosphate	53201-92-6	10	30	50	500	mg/m^3		**SAR**
2510	Potassium sulfate (2:1); (Dipotassium sulfate)	7778-80-5	2	6	40	500	mg/m^3		
2511	Potassium sulfite	10117-38-1	7.5	25	150	500	mg/m^3		HSDB oral lethal dose range 0.5 to 5 g/kg. MF and MW vary between sources.
2512	Potassium tellurate	15571-91-2	0.211	0.634	1.06	52.9	mg/m^3	**P-3**	TSCA MF = 2K-Te-H2-O4.
2513	Potassium tellurite	7790-58-1	0.199	0.597	3.5	49.7	mg/m^3	**P-3**	
2514	Potassium tetrafluoroborate(1-)	14075-53-7	4.14	124	207	414	mg/m^3		
2515	Potassium tetraphenylborate	3244-41-5	1	3	5	25	mg/m^3		Data from MSDS.
2516	Potassium thiocyanate	333-20-0	12.5	35	60	60	mg/m^3		
2517	Potassium trihydrogen silicate	z-0058	10	30	50	250	mg/m^3		
2518	Potassium tungstate (liquids)	7790-60-5a	1.77	5.32	5.32	5.32	mg/m^3		
2519	Potassium tungstate (solids)	7790-60-5b	1.77	5.32	5.32	5.32	mg/m^3		
2520	Potassium uranyl carbonate	z-0059	0.492	1.18	4	19.7	mg/m^3	**T-0, P-1, P-2, P-3**	MF and MW corrected.
2521	Potassium zirconate; (Potassium zirconium oxide; Dipotassium zirconate)	12030-98-7	11.9	23.8	25	119	mg/m^3		Synonyms changed.
2522	Potassium-tert-butoxide; (tert-Butyl alcohol, potassium derivitave)	865-47-4	1.5	5	35	150	mg/m^3		LD50 estimated, databases MF differ.
2523	Praseodymium	7440-10-0	1.5	5	35	150	mg/m^3		No toxicity data found.
2524	Praseodymium nitrate	10361-80-5	7.5	20	150	500	mg/m^3		

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2525	Praseodymium oxide	12036-32-7	7.5	25	150	500	mg/m^3		No toxicity data found, rat oral LD50 estimated from other Pr compounds.
2526	Praseodymium(III,IV) oxide	12037-29-5	20	60	400	500	mg/m^3		RTECS rat LD50 > 5 g/kg' no pchem data found.
2527	Promecarb; (m-Cym-5-yl methylcarbamate)	2631-37-0	3	10	16	25	mg/m^3		
2528	Propanamine, 1-; (Propylamine)	107-10-8	15	50	250	250	ppm		
2529	**Propane**	**74-98-6**	1,000	***5500***	***17000***	***33000***	ppm		**Interim AEGL-1, -2, -3** See LEL formatting note.
2530	Propane sultone, 1,3-	1120-71-4	0.4	1.25	7.5	20	mg/m^3		
2531	Propanediamine, 1,2-	78-90-0	7.5	25	200	500	mg/m^3		
2532	Propanediamine, 1,3-	109-76-2	0.2	0.6	4	40	ppm		
2533	**Propanedinitrile; (Malononitrile)**	**109-77-3**	3	3	**4.9**	**10**	ppm		**Interim AEGL-2, -3**
2534	Propanediol, 1,3-	504-63-2	20	60	400	500	mg/m^3		
2535	Propanediol, 2,2-dimethyl-, 1,3-	126-30-7	50	150	1,000	***5,000***	ppm	**T-0, P-1, P-2, P-3**	Toxicity data corrected.
2536	Propanethiol; (n-Propylmercaptan)	107-03-9	0.025	0.075	0.5	750	ppm		
2537	Propanol, zirconium(4+) salt, 1-	23519-77-9	18	35.9	89.8	180	mg/m^3	**P-1**	Not found in databases.
2538	**Propargyl alcohol**	**107-19-7**	1	**2.5**	**16**	**74**	ppm		**Interim AEGL-1, A-2, -3**
2539	Propargyl bromide	106-96-7	0.03	0.03	0.03	20	mg/m^3		
2540	Propiolactone, b-	57-57-8	0.5	0.509	5.09	15	ppm		
2541	**Propionaldehyde**	**123-38-6**	20	**45**	**260**	**840**	ppm		**Interim AEGL-1, -2, -3**
2542	Propionic acid	79-09-4	10	15	15	350	ppm	**P-1**	
2543	Propionic acid, 3-ethoxy-, ethyl ester	763-69-9	20	60	400	500	mg/m^3		
2544	Propionic acid, sodium salt	137-40-6	15	50	350	500	mg/m^3		

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
2545	Propionic anhydride	123-62-6	10	30	200	500	mg/m^3		
2546	**Propionitrile; (Propiononitrile)**	**107-12-0**	6	6	**7.0**	**37**	ppm		**Interim AEGL-2, -3**
2547	Propionyl chloride	79-03-8	0.075	0.2	1.5	7.5	ppm		
2548	Propoxur	114-26-1	0.5	1.5	20	20	mg/m^3		
2549	Propoxypropanol, n-; (Propylene glycol monpropyl ether)	30136-13-1	1.25	4	25	125	ppm		Added.
2550	Propyl acetate, n-	109-60-4	200	250	250	***1,700***	ppm	**P-2**	See LEL formatting note.
2551	Propyl alcohol, n-; (n-Propanol)	71-23-8	200	250	250	800	ppm		
2552	**Propyl chloroformate; (Propyl chlorocarbonate)**	**109-61-5**	0.75	2	**3.7**	**11**	ppm		**Interim AEGL-2, -3**
2553	Propyl nitrate	627-13-4	25	40	100	500	ppm		
2554	Propyl-1-butanamine, N-	20193-21-9	15	50	350	500	mg/m^3		**SAR**
2555	Propylbenzene, n-; (Isocumene)	103-65-1	30	75	600	***3,000***	ppm		See LEL formatting note.
2556	Propylene carbonate, 1,2-	108-32-7	0.125	0.35	2.5	12.5	mg/m^3		
2557	**Propylene glycol dinitrate**	**6423-43-4**	0.05	**0.17**	**1.0**	**13**	ppm		**Final AEGL-1, -2, -3** Component of "Otto fuel."
2558	**Propylene glycol monomethyl ether acetate, 1,2-; (1-Methoxypropyl-2-acetate)**	**108-65-6**	50	**50**	**1000**	***5000***	ppm	**P-1, P-2, P-3**	**ERPG-1, -2, -3**
2559	**Propylene glycol monomethyl ether acetate, beta; (2-Methoxypropoyl-1-acetate)**	**70657-70-4**	5	**50**	**1000**	***5000***	ppm	Added	**ERPG-1, -2, -3**
2560	Propylene glycol monomethyl ether; (Ucar Triol HG-170)	107-98-2	100	150	300	750	ppm		
2561	Propylene glycol mono-n-butyl ether; (3-butoxy-1-propanol)	10215-33-5	50	50	300	500	ppm		
2562	Propylene glycol; (1,2-Propanediol)	57-55-6	10	10	10	500	mg/m^3		
2563	**Propylene oxide; (Methyl ethylene oxide)**	**75-56-9**	2	**73**	**290**	**870**	ppm		**Interim AEGL-1, -2, -3** PEL-TWA ignored.
2564	Propylene; (1-Propene)	115-07-1	500	1,500	***10,000***	***20,000***	ppm		See LEL formatting note.

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Table 2: Protective Action Criteria (PAC) Rev 25
Based on applicable AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
2565	**Propyleneimine, 1,2-**	**75-55-8**	0.4	0.4	**12**	**23**	ppm	**T-0, P-1**	**Interim AEGL-2, -3**
2566	**Propyltrichlorosilane**	**141-57-1**	0.2	**0.60**	**7.3**	**33**	ppm		**Interim AEGL-1, -2, -3** added.
2567	Prothoate; (Isopropyl diethyldithiophosphorylacetamide)	2275-18-5	0.35	1	1.7	7.5	mg/m^3		
2568	Pump oil	64742-65-0	100	300	500	500	mg/m^3		
2569	Pyrene	129-00-0	0.75	2.5	15	15	mg/m^3	**T-0, P-1**	
2570	Pyrethrin 1; (Cyclopropanecarboxylic acid, 3,3-dimethyl-3-(2-methylpropenyl)-, ester with 4-hydroxy-3-)	121-21-1	5	10	25	100	mg/m^3	Added.	Added values Finland TLV and STEL.
2571	Pyridine	110-86-1	1	3	5	1,000	ppm	**T-0, P-1, P-2**	Suppressed PEL-TWA, but changed "Y" to "N."
2572	Pyridinecarboxaldehyde, 4-; (Isonicotinaldehyde)	872-85-5	12.5	40	250	500	mg/m^3		
2573	Pyridine-d5	7291-22-7	1	3	5	1,000	ppm	**T-0, P-1, P-2, P-3**	Not listed in databases, MSDS toxicity and pchem data.
2574	Pyriminil; (Pyriminyl)	53558-25-1	1.25	3.5	6.2	20	mg/m^3		
2575	Pyrogallic acid	87-66-1	0.75	2.5	15	25	mg/m^3		
2576	Pyromellitic acid	89-05-4	1.25	3.5	25	125	mg/m^3		
2577	Pyroxylin; (Cellulose tetranitrate)	9004-70-0	20	60	400	500	mg/m^3	**T-0, P-1, P-2**	
2578	Pyrrole; (Imidole)	109-97-7	0.035	0.1	0.75	4	ppm		
2579	Pyrrolidine	123-75-1	5	15	100	500	mg/m^3		
2580	Pyrrolidinone, 2-	616-45-5	1	3	20	40	ppm		
2581	Pyruvate kinase	9001-59-6	2.5	7.5	50	500	mg/m^3		No data found. Glycolytic enzyme toxicity based on Kinase (9039-53-6) and Pyruvic acid (127-17-3).
2582	Quaternary ammonium compounds, benzyl-C12-C16-alkyldimethyl, chlorides	68424-85-1	1.5	5	35	150	mg/m^3		
2583	Quaternary ammonium compounds, coco alkylbis(hydroxyethyl)methyl, chlorides; (Methyl bis(2-hydroxyethyl) cocoalkyl quaternary ammonium chlorides)	70750-47-9	1.5	5	35	150	mg/m^3		Inserted new name. RTECS, TSCA, ChemFinder listed, no data. MSDS toxicity data.

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
2584	Quaternary ammonium compounds, coco alkylbis(hydroxyethyl)methyl, nitrates (salts); (Methyl bis(2-hydroxyethyl) cocoalkyl quaternary ammonium nitrates)	71487-00-8	1.5	5	35	150	mg/m^3		Inserted new name. TSCA listed, no data. MSDS toxicity data based on similar material.
2585	Quinhydrone	106-34-3	0.3	0.75	6	30	mg/m^3		
2586	Quinoline	91-22-5	1.00E-03	0.6	5	25	ppm		
2587	Quinolinol, 8-	148-24-3	2.5	7.5	50	500	mg/m^3		
2588	Red Arrow Insect Spray	z-0117	3.5	10	60	200	mg/m^3	**T-0, P-1, P-2, P-3**	Added. Calculated from TEELs of six component fractions ex MSDS.
2589	Resorcinol	108-46-3	10	20	20	20	ppm		
2590	Rexyn I-300; (Ethylene glycol dimethacrylate polymer with styrene, chloromethylated, trimethylamine-quanternized, hydroxide)	69011-49-0	10	30	50	250	mg/m^3		TSCA listed, MW is for x = 1. No toxicity data found. SG ex MSDS.
2591	Rhenium hexafluoride	10049-17-9	6.58	19.8	32.9	500	mg/m^3		TSCA, HC&P listed. No toxicity data found.
2592	Rhenium oxide; (Rhenium(VII) oxide)	1314-68-7	1.3	3.9	6.5	30	mg/m^3		Soluble W limits used, but used "N," not "Y" fr concentration dependence.
2593	Rhodium	7440-16-6	0.1	3	5	100	mg/m^3		
2594	Rhodium oxide (liquids); (Rhodium(IV) oxide)	12137-27-8a	0.00131	0.075	0.5	2.6	mg/m^3	**P-1**	Liquid treated as soluble.
2595	Rhodium oxide (solids); (Rhodium((IV) oxide)	12137-27-8b	0.131	3.93	6.56	131	mg/m^3		Solids treated as insoluble.
2596	Rhodium(III) hydroxide (liquids)	21656-02-0a	0.0015	0.075	0.6	2.99	mg/m^3	**P-1**	Liquid treated as soluble.
2597	Rhodium(III) hydroxide (solids)	21656-02-0b	0.15	4.49	7.5	150	mg/m^3		Solids treated as insoluble.
2598	Rhodium(III) oxide (solids)	12036-35-0	0.123	3.7	6.17	123	mg/m^3		
2599	Riboflavine	83-88-5	7.5	25	150	500	mg/m^3		
2600	Ribonuclease T1	9026-12-4	10	30	50	250	mg/m^3		No toxicity data. PNOS option used.
2601	Rosin core solder decomposition products; (Colophony Gum)	8050-09-7	0.1	0.3	40	40	mg/m^3		SAX listing new, ignored very high human skin TClo.
2602	Rotenone	83-79-4	5	15	25	125	mg/m^3		IDLH suppressed, >> human LDlo.

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No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
2603	Rubber solvent; (Naphtha (petroleum) light aliphatic)	64742-89-8	100	100	200	1,000	ppm	**P-3**	CASRN = 8030-30-6 in SAX & HSDB.
2604	Rubidium	7440-17-7	5	15	100	500	mg/m^3		
2605	Rubidium bromide	7789-39-1	10	30	50	250	mg/m^3		
2606	Rubidium chloride	7791-11-9	0.015	0.05	0.35	500	mg/m^3		
2607	Rubidium hydroxide	1310-82-3	2.5	7.5	50	250	mg/m^3		
2608	Rubidium nitrate	13126-12-0	20	60	400	500	mg/m^3	**T-0, P-1, P-2**	
2609	Ruthenium	7440-18-8	10	30	50	250	mg/m^3		
2610	Ruthenium trichloride	10049-08-8	1.5	4	30	150	mg/m^3		
2611	Ruthenium(IV) oxide	12036-10-1	4	12.5	15	15	mg/m^3		
2612	Safrol; (5-(2-Propenyl)-1,3-benzodioxole)	94-59-7	5	15	100	500	mg/m^3		
2613	Salcomine; (bis(Salicylaldehyde)ethylenediimine cobalt(II))	14167-18-1	7.5	20	39	400	mg/m^3		
2614	Salicylaldehyde	90-02-8	0.6	1.5	12.5	200	mg/m^3		
2615	Salicylic acid	69-72-7	0.3	0.75	6	400	mg/m^3		
2616	Salicylic acid, monoammonium salt	528-94-9	1.5	4	30	500	mg/m^3		No pchem data found.
2617	Salicylic acid, phenyl ester	118-55-8	4	12.5	75	500	mg/m^3		
2618	Samarium	7440-19-9	10	30	50	250	mg/m^3		No toxicity data found.
2619	Samarium nitrate	10361-83-8	7.5	25	150	500	mg/m^3		
2620	Samarium(II) iodide solution	32248-43-4	7.5	25	150	500	mg/m^3		Not found in databases. HRR = 2 from MSDS.
2621	Samarium(III) chloride hexahydrate	13465-55-9	12.5	40	250	500	mg/m^3		Not found in databases. ChemFinder MF, MW, MSDS toxicity data.
2622	Samarium(III) oxide	12060-58-1	20	60	400	500	mg/m^3		Rat oral LD50 > 5 g/kg.

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
2623	Saxitoxin	35523-89-8	3.50E-05	1.00E-04	6.00E-04	0.0035	mg/m^3		ChemFinder has MW = 315.3314, MF = C11.H21.N7.O4.
2624	Scandium	7440-20-2	10	30	50	250	mg/m^3		TSCA listed, no toxicity data.
2625	Scandium oxide	12060-08-1	10	30	50	250	mg/m^3		No toxicity data found, PNOS used.
2626	Selenious acid	7783-00-8	0.327	0.98	250	250	mg/m^3	**P-2, P-3**	
2627	Selenium	7782-49-2	0.2	0.6	1	1	mg/m^3		
2628	Selenium dioxide	7446-08-4	0.281	0.843	1.41	150	mg/m^3	**P-3**	
2629	**Selenium hexafluoride**	**7783-79-1**	0.053	**0.053**	**0.087**	**0.26**	ppm		**Interim AEGL-1, -2, -3**
2630	Selenium monosulfide	7446-34-6	0.281	0.844	12.5	15	mg/m^3		
2631	Selenium oxychloride	7791-23-3	0.42	1.26	10	10	mg/m^3	**P-2, P-3**	
2632	Selenium sulfide; (Selenium(IV) disulfide (1:2))	7488-56-4	0.362	1.09	1.81	60	mg/m^3		
2633	Semicarbazide hydrochloride	563-41-7	20	60	100	100	mg/m^3		
2634	Sephacryl s-200, superfine	65546-95-4	10	30	50	250	mg/m^3		Not found in databases.
2635	Sephacryl s-300	82785-74-8	10	30	50	250	mg/m^3		Not found in databases.
2636	Sephadex G-25	9041-35-4	10	30	50	250	mg/m^3		Not found in databases, PNOS option used.
2637	Sepharose cl-4b	61970-08-9	10	30	50	250	mg/m^3		Not found in databases. Chromatography gel.
2638	**Silane; (Silicon tetrahydride)**	**7803-62-5**	5	**100**	**130**	**270**	ppm		**Interim AEGL-1, -2, -3**
2639	Silica amorphous hydrated	7631-86-9	6	18	125	500	mg/m^3		SAX name for this CASRN.
2640	Silica gel	63231-67-4	6	18	30	500	mg/m^3	**P-3**	PEL = 80/% SiO2 not used; see 7631-86-9, SCI000, and 112926-00-8 (Silica gel).
2641	Silica gel dessicant	1343-98-2	6	18	30	500	mg/m^3	**P-3**	See 7631-86-9, SCI000, and 112926-00-8 (Silica gel).
2642	Silica gel, amorphous synthetic	112926-00-8	6	18	100	500	mg/m^3		TLV-TWA deleted, toxicity data added.

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
2643	Silica, amorphous fume	69012-64-2	0.3	0.9	1.5	500	mg/m^3	***P-3***	Rat oral LD50 > 7.9 mg/kg.
2644	Silica, amorphous fumed	112945-52-5	6	18	30	500	mg/m^3	***P-2***	
2645	Silica, crystalline-quartz; (Silicon dioxide)	14808-60-7	0.025	0.075	0.125	50	mg/m^3	***T-0, P-1, P-2***	
2646	Silicic acid	7699-41-4	0.3	10	75	400	mg/m^3	***T-0***	
2647	Silicic acid, aluminum calcium sodium salt	1344-01-0	10	30	50	60	mg/m^3	***P-3***	HSDB, TSCA listed, no toxicity data, suspected minor eye irritation ignored. MW is a minimum.
2648	Silicic acid, sodium salt; (Sodium silicate)	1344-09-8	7.5	25	150	500	mg/m^3		ChemFinder pchem data.
2649	Silicofluoric acid; (Fluorosilicic acid)	16961-83-4	3.16	9.48	15.8	50	mg/m^3		
2650	Silicon	7440-21-3	15	45	75	500	mg/m^3		"Y" changed to N, TLV-TWA deleted.
2651	Silicon carbide	409-21-2	15	45	250	500	mg/m^3	***P-1***	
2652	Silicon nitride	12033-89-5	10	30	50	250	mg/m^3		TSCA, HC&P listed, no toxicity data.
2653	**Silicon tetrafluoride; (Tetrafluorosilane)**	**7783-61-1**	0.05	**0.050**	**3.3**	**10**	ppm		**Interim AEGL-1, -2, -3**
2654	Silicon(II) oxide; (Silicon oxide)	10097-28-6	10	30	50	250	mg/m^3		
2655	Siloprene k 1000	63394-02-5	35	100	500	500	mg/m^3		No pchem data found.
2656	Siloxanes and silicones, dimethyl, reaction products with silica; (Hydrophobic silicon dioxide, amorphous)	67762-90-7	6	15	125	500	mg/m^3		SAX has CASRN = 63148-62-9, teratogen.
2657	Siloxanes and silicones, methyl phenyl; (Silicone fluid, high temp)	63148-58-3	2.5	7.5	50	250	mg/m^3	***T-0, P-1***	MW estimated and used toxicity data for Silicone Y-6607 (Siloxanes), 67762-92-9.
2658	Silver	7440-22-4	0.01	0.3	0.5	10	mg/m^3		
2659	Silver carbonate; (Silver(I) carbonate)	534-16-7	0.0128	0.0383	0.0639	12.8	mg/m^3		
2660	Silver chloride	7783-90-6	0.0133	0.0399	0.0664	13.3	mg/m^3		Solubility 6.9 g/100 mLwater @20C.
2661	Silver cyanide	506-64-9	25.7	77.2	129	129	mg/m^3	***P-1, P-2***	Changed "Y" to "N."
2662	Silver hydroxide	12673-77-7	0.0116	0.0347	0.06	11.6	mg/m^3		

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
2663	Silver nitrate	7761-88-8	0.0157	0.4	3	15.7	mg/m^3		
2664	Silver nitrite; (Silver(I) nitrite)	7783-99-5	0.0143	0.0428	0.075	14.3	mg/m^3		
2665	Silver oxide	20667-12-3	0.3	0.75	6	30	mg/m^3	**T-0, P-1, P-2, P-3**	Insoluble compound.
2666	Soda lime	8006-28-8	2	6	10	25	mg/m^3	**T-0, P-1, P-2**	Ca.O mixed with Na.OH.
2667	Sodium	7440-23-5	0.5	0.5	5	50	mg/m^3		Na.OH limits used.
2668	Sodium acetate	127-09-3	15	40	300	500	mg/m^3		
2669	Sodium acetate trihydrate; (Acetic acid, sodium salt trihydrate)	6131-90-4	15	40	300	500	mg/m^3		Monohydrate CASRN 31304-44-6, SAX SEG650 (LANL pchem data differs).
2670	Sodium aluminate anhydrous; (Aluminum sodium dioxide anhydrous)	11138-49-1	8.75	26.2	43.7	200	mg/m^3	**P-1, P-2, P-3**	MSDS data used. Changed "Y" to "N."
2671	Sodium aluminate; (Aluminum sodium dioxide)	1302-42-7	6.08	18.2	30.4	150	mg/m^3	**P-1, P-2, P-3**	MSDS data used. Changed "Y" to "N."
2672	Sodium aluminosilicate	1344-00-9	3.5	10	150	500	mg/m^3		Rat oral LD50 > 27 g/kg, LC > 140 mg/m^3 not used. **SAR**
2673	Sodium aluminum hydride	13770-96-2	3	7.5	60	300	mg/m^3		Added.
2674	Sodium aluminum silicate	73987-94-7	3.5	10	15	500	mg/m^3		**SAR**
2675	Sodium antimonate; (Antimonic acid, sodium salt)	11112-10-0	1.01	3.04	5.07	101	mg/m^3		TSCA lists CASRN = 15432-85-6 for Na.SbO3.
2676	Sodium antimonate; (Sodium hexahydroxoantimonate)	33908-66-6	0.792	2.37	4	79.2	mg/m^3		TSCA has CASRN= 33908-66-6 for Na.Sb.(OH)6.
2677	Sodium antimonite	z-0061	0.874	2.62	4.37	87.4	mg/m^3		
2678	Sodium argentate	z-0062	0.0153	0.0459	0.0764	15.3	mg/m^3		
2679	Sodium arsenate	7631-89-2	0.0271	2	13.5	13.5	mg/m^3		REL-C ignored.
2680	Sodium arsenite	7784-46-5	0.0173	1.25	8.67	8.67	mg/m^3	**P-1, P-2**	REL-C ignored.
2681	Sodium azide	26628-22-8	0.2	3	20	20	mg/m^3	**T-0, P-1, P-2, P-3**	
2682	Sodium beryllium oxide	z-0063	0.0124	0.0311	0.0311	24.9	mg/m^3	**P-1, P-2**	

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Table 2: Protective Action Criteria (PAC) Rev 25
Based on applicable AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
2683	Sodium bicarbonate	144-55-8	0.1	0.35	2	500	mg/m^3	**T-0, P-1, P-2**	
2684	Sodium bifluoride; (Sodium hydrogen fluoride)	1333-83-1	4.08	10	75	408	mg/m^3	**P-1, P-2, P-3**	
2685	Sodium bis(2-methoxyethoxy) aluminum hydride	22722-98-1	15	45	75	350	mg/m^3		No toxicity data found.
2686	Sodium bismuthate	12232-99-4	1.5	5	35	150	mg/m^3		**SAR** TEELs 1.25, 4, 25, 200 mg/m^3 not used
2687	Sodium bisulfate monohydrate	10034-88-5	0.75	2.5	15	75	mg/m^3		
2688	Sodium bisulfate; (Sodium acid sulfate)	7681-38-1	1.25	3.5	25	125	mg/m^3		
2689	Sodium bisulfite	7631-90-5	5	15	25	500	mg/m^3		
2690	Sodium borate decahydrate	1303-96-4	17.6	52.9	200	500	mg/m^3	**T-0, P-1**	RTECS, HSDB, TSCA, GOEV, HC&P, H&N and SAX used.
2691	Sodium borate; (Disodium tetraborate; Borates, tetrasodium salts)	1330-43-4	9.31	27.9	27.9	500	mg/m^3	**T-0, P-1, P-2**	RTECS, HSDB, TSCA, GOEV, HC&P, H&N used, SAX ignored.
2692	Sodium borohydride	16940-66-2	0.075	0.2	1.5	7.5	mg/m^3		
2693	Sodium bromate	7789-38-0	0.6	1.5	12.5	60	mg/m^3		
2694	Sodium bromide	7647-15-6	1.5	5	35	500	mg/m^3		
2695	Sodium butyl (2-ethylhexyl)phosphate	z-0064	0.02	0.06	0.4	2	mg/m^3		**SAR**
2696	Sodium butyl butylphosphonate	z-0065	0.02	0.06	0.4	2	mg/m^3		**SAR**
2697	Sodium cacodylate; (Sodium dimethylarsinate)	124-65-2	1.07	3.2	40	500	mg/m^3		
2698	Sodium cadminate	z-0066	0.0101	0.0604	0.101	18.1	mg/m^3		
2699	Sodium carbonate	497-19-8	0.0125	0.04	0.25	500	mg/m^3	**T-0, P-1, P-2**	
2700	Sodium carbonate monohydrate	5968-11-6	1.5	5	35	150	mg/m^3		HSDB data used.
2701	Sodium carboxymethyl cellulose; (Dowex 11)	9004-32-4	0.4	1.25	7.5	500	mg/m^3		
2702	Sodium chloride	7647-14-5	15	40	300	500	mg/m^3		

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Table 2: Protective Action Criteria (PAC) Rev 25
Based on applicable AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
2703	Sodium chlorite	7758-19-2	0.75	2.5	15	75	mg/m^3		RTECS MF and MW differ from other sources.
2704	Sodium chromate decahydrate	13517-17-4	0.0329	2.5	20	98.7	mg/m^3	**P-1**	
2705	Sodium chromate tetrahydrate	10034-82-9	0.0291	2.5	15	87.4	mg/m^3	**P-1**	
2706	Sodium chromate(VI); (Disodium chromate)	7775-11-3	0.0156	0.125	0.75	46.7	mg/m^3		
2707	Sodium citrate; (Monosodium citrate)	18996-35-5	5	15	100	500	mg/m^3	**T-0, P-1, P-2**	
2708	Sodium cobaltinitrite	13600-98-1	0.125	0.4	3	15	mg/m^3		
2709	Sodium cyanide	143-33-9	5	5	5	47.1	mg/m^3		
2710	Sodium cyclopentadienylide; (Cyclopentadienyl sodium)	4984-82-1	10	30	50	250	mg/m^3		No toxicity data. Ignites in air.
2711	Sodium deuteroxide	14014-06-3	0.5	0.5	5	50	mg/m^3	**T-0**	Not in databases, MSDS has no useful data.
2712	Sodium dichromate dihydrate	7789-12-0	0.0143	0.43	0.716	43	mg/m^3		
2713	Sodium dichromate; (Disodium dichromate)	10588-01-9	0.0126	20	37.8	37.8	mg/m^3		
2714	Sodium diethyldithiocarbamate trihydrate	20624-25-3	2	6	10	500	mg/m^3	**T-0, P-1, P-2**	
2715	Sodium diethyldithiocarbamate; (Diethyldithiocarbamic acid, sodium salt)	148-18-5	2	6	250	500	mg/m^3		
2716	Sodium dihydrogen phosphate; (Sodium phosphate monobasic, monohydrate)	10049-21-5	100	300	500	500	mg/m^3		HSDB data.
2717	Sodium dithionate dihydrate	7631-94-9	10	30	50	250	mg/m^3		No toxicity data; error in H&N.
2718	Sodium dodecylbenzenesulfonate; (Dodecyl benzene sodium sulfonate)	25155-30-0	4	12.5	75	200	mg/m^3		
2719	Sodium ethoxide	141-52-6	1.5	5	35	150	mg/m^3		No toxicity data found.
2720	Sodium ferrocyanide	13601-19-9	5.44	16.3	27.2	500	mg/m^3		
2721	Sodium fluoride	7681-49-4	5.53	5.53	5.53	500	mg/m^3	**P-3**	
2722	Sodium formate	141-53-7	40	125	500	500	mg/m^3		

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Based on applicable AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
2723	Sodium gluconate	527-07-1	0.6	2	15	75	mg/m^3		
2724	Sodium glycinate	6000-44-8	1	3.5	25	125	ppm		
2725	Sodium glycolate; (Sodium hydroxyacetate)	2836-32-0	10	30	200	750	ppm		
2726	Sodium hexamethyldisilazane; (Sodium bis(trimethylsilyl)amide)	1070-89-9	10	30	50	250	mg/m^3		TSCA listed.
2727	Sodium hydride	7646-69-7	0.4	1.25	7.5	40	mg/m^3	**T-0, P-1, P-2, P-3**	Severe skin irritant (HSDB).
2728	Sodium hydrogen lead oxide	z-0067	0.06	0.06	0.06	125	mg/m^3		**SAR**
2729	Sodium hydrogen metasilicate	z-0068	4	12.5	75	400	mg/m^3		**SAR**
2730	Sodium hydrogen pyrophosphate	z-0069	4	12.5	20	400	mg/m^3		**SAR**
2731	Sodium hydrosulfite	7775-14-6	10	30	50	250	mg/m^3		
2732	**Sodium hydroxide**	**1310-73-2**	0.5	**0.5**	**5**	**50**	mg/m^3		**ERPG-1, -2, -3**
2733	Sodium hypobromite	13824-96-9	10	30	50	250	mg/m^3		Added. Not found in available databases. MF from ExPub.
2734	Sodium hypochlorite	7681-52-9	0.6	2	50	500	mg/m^3		WEEL added, toxicity data updated.
2735	Sodium hypochlorite pentahydrate	10022-70-5	0.075	0.2	1.5	500	mg/m^3		
2736	Sodium hypophosphite	7681-53-0	6	20	125	500	mg/m^3		No pchem data found.
2737	Sodium hypophosphite hydrate	123333-67-5	6	20	125	500	mg/m^3		Used toxicity data for Na hypophosphite, CASRN = 7681-53-0.
2738	Sodium iodate	7681-55-2	2	6	40	200	mg/m^3		Deleted iodine concentration limits.
2739	Sodium iodide	7681-82-5	0.75	2.5	15	500	mg/m^3		
2740	Sodium isothiocyanate; (Thiocyanic acid, sodium salt)	540-72-7	0.25	0.75	6	100	mg/m^3		
2741	Sodium lactate; (Lactic acid, monosodium salt)	72-17-3	15	40	300	500	mg/m^3		
2742	Sodium lanthanate	z-0070	0.4	1.25	2.5	2.5	mg/m^3		No "lanthanate" listing found. **SAR**

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Table 2: Protective Action Criteria (PAC) Rev 25
Based on applicable AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
2743	Sodium lauryl sulfate	151-21-3	0.35	1	6	500	mg/m^3		
2744	Sodium metabisulfite	7681-57-4	5	15	25	100	mg/m^3		
2745	Sodium metaborate	7775-19-1	12.4	37.1	200	500	mg/m^3	**T-0, P-1, P-2**	SAX, RTECS, HSDB MF = BHO2.Na, not NaBO2.
2746	Sodium metaphosphate	10361-03-2	3.5	10	75	350	mg/m^3		
2747	Sodium metasilicate nonahydrate	13517-24-3	61.1	61.1	100	500	mg/m^3	**P-1, P-2**	
2748	Sodium metasilicate pentahydrate	10213-79-3	45.3	45.3	75	350	mg/m^3	Added.	
2749	Sodium metavanadate; (Sodium vanadate)	13718-26-8	0.12	0.15	1.2	30	mg/m^3	**T-0, P-1, P-2**	
2750	Sodium methylate	124-41-4	7.5	25	150	500	mg/m^3		
2751	Sodium molybdate dihydrate; (Disodium molybdate dihydrate)	10102-40-6	12.6	12.6	500	500	mg/m^3	**P-2, P-3**	
2752	Sodium monoxide; (Sodium oxide)	12401-86-4	0.5	0.5	5	50	mg/m^3	**T-0, P-1, P-2, P-3**	No toxicity data found, used Na.OH concentration limits.
2753	Sodium nickel oxide (Liquid)	37367-09-2	0.233	0.699	1.16	23.3	mg/m^3	**T-0, P-1, P-2**	PEL-TWA suppressed.
2754	Sodium nickelate (Liquids)	z-0073	0.294	0.883	1.5	29.4	mg/m^3	**T-0, P-1, P-2**	PEL-TWA suppressed.
2755	Sodium nickelate (Solids)	z-0074	0.589	1.77	3	29.4	mg/m^3	**T-0, P-1**	PEL-TWA suppressed.
2756	Sodium nitrate	7631-99-4	0.4	1	7.5	100	mg/m^3		
2757	Sodium nitrite	7632-00-0	0.05	0.15	1	60	mg/m^3		
2758	Sodium nitroferricyanide	14402-89-2	0.6	2	12.5	20	mg/m^3		
2759	Sodium o-benzyl-p-chlorophenate	3184-65-4	10	30	50	250	mg/m^3		
2760	Sodium orthovanadate	13721-39-6	0.181	0.25	1.81	126	mg/m^3	**P-3**	
2761	Sodium oxalate	62-76-0	0.25	0.75	6	30	mg/m^3	**T-0, P-1, P-2, P-3**	
2762	Sodium oxide; (Disodium oxide; Sodium monoxide)	1313-59-3	0.5	0.5	5	50	mg/m^3	**T-0, P-1, P-2, P-3**	Added. TSCA , HC&P listed. MSDS: Amorphous powder, reacts with H2.O to form Na.OH.

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No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
2763	Sodium pentachlorophenate	131-52-2	1	3.5	24	75	mg/m^3		
2764	Sodium perchlorate	7601-89-0	7.5	25	150	500	mg/m^3	**T-0, P-1, P-2**	
2765	Sodium perchlorate monohydrate	7791-07-3	5	15	100	500	mg/m^3		
2766	Sodium permanganate	10101-50-5	0.517	7.75	12.9	500	mg/m^3		HC&P data are for the trihydrate.
2767	Sodium peroxide	1313-60-6	0.5	0.5	5	50	mg/m^3	**T-0, P-1, P-2, P-3**	No toxicity data found, used Na.OH concentration limits.
2768	Sodium perrhenate; (Rhenium(VII) sodium oxide)	13472-33-8	7.5	25	150	500	mg/m^3	**T-0, P-1, P-2**	
2769	Sodium persulfate	7775-27-1	0.1	2.5	20	100	mg/m^3	**P-1**	
2770	Sodium phosphate	7632-05-5	0.75	2.5	15	75	mg/m^3		Mouse LD > 100 mg/kg.
2771	Sodium phosphate, dibasic	7558-79-4	60	200	500	500	mg/m^3		
2772	Sodium phosphate, dibasic, dodecahydrate	10039-32-4	1.5	5	35	150	mg/m^3		
2773	Sodium phosphate, dibasic, heptahydrate	7782-85-6	50	150	500	500	mg/m^3		
2774	Sodium phosphate, monobasic	7558-80-7	35	100	500	500	mg/m^3		
2775	Sodium phosphate, tribasic, dodecahydrate	10101-89-0	30	75	500	500	mg/m^3	**T-0, P-1, P-2**	
2776	Sodium phosphate, tribasic; (Trisodium phosphate)	7601-54-9	1.5	5	500	500	mg/m^3		
2777	Sodium phosphate, tribasic; (Sodium hexametaphosphate; Calgon)	10124-56-8	25	75	500	500	mg/m^3		
2778	Sodium phosphate, tribasic; (Sodium trimetaphosphate)	7785-84-4	15	40	300	500	mg/m^3		
2779	**Sodium phosphide**	**12058-85-4**	0.4	1.25	**2.0**	**3.6**	ppm		**Final AEGL-2, -3** TSCA listed.
2780	Sodium polyphosphate	68915-31-1	12.5	40	250	500	mg/m^3		
2781	Sodium polytungstate	12141-67-2	6.77	13.5	35	150	mg/m^3		TSCA listed, no toxicity or pchem data found.
2782	Sodium potassium tartrate tetrahydrate	6381-59-5	20	60	400	500	mg/m^3		HC&N listed under CASRN 304-59-6, used HSDB toxicity data.

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No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
2783	Sodium potassium tartrate; (Potassium sodium tartrate)	304-59-6	20	60	400	500	mg/m^3		HSDB toxicity data used.
2784	Sodium p-tert-amylphenate; (4-(1,1-Dimethylpropyl)phenol, sodium salt)	31366-95-7	10	30	50	250	mg/m^3		
2785	Sodium pyrophosphate decahydrate	13472-36-1	10	30	200	500	mg/m^3		Corrected name. Used toxicity of disodium pyrophosphate, CASRN = 7758-16-9.
2786	Sodium pyrophosphate, di-	7758-16-9	10	30	200	500	mg/m^3		
2787	Sodium pyruvate; (Pyruvic acid, sodium salt)	113-24-6	10	30	50	250	mg/m^3		TSCA listed, no toxicity data found.
2788	Sodium salicylate; (Salicylic acid, sodium salt)	54-21-7	40	100	500	500	mg/m^3		
2789	Sodium selenate; (Disodium selenate)	13410-01-0	0.479	1.44	1.6	1.6	mg/m^3		
2790	Sodium selenite	10102-18-8	0.438	1.31	2.3	3	mg/m^3		
2791	Sodium silicate; (Sodium metasilicate)	6834-92-0	75	200	500	500	mg/m^3		HSDB and TSCA MF = H2.O3.Si.2Na.
2792	Sodium stannate	12058-66-1	3.58	10.8	17.9	179	mg/m^3		As inorganic tin compound Ts = 3.5, 10.5, 30, 150 mg/m^3. SAR not used.
2793	Sodium stearate	822-16-2	0.15	0.5	3.5	15	mg/m^3		
2794	Sodium strontium phosphate	19553-80-1	10	30	50	500	mg/m^3		**SAR**
2795	Sodium succinate	150-90-3	5	15	125	600	ppm		
2796	Sodium succinate, hexahydrate	6106-21-4	35	100	500	500	mg/m^3		Not found in databases. MF and MW from ChemFinder.
2797	Sodium sulfamate	13845-18-6	7.5	25	150	500	mg/m^3	Added.	Added. TSCA listed, estimated rat LD50 from other sulfamates.
2798	Sodium sulfate, anhydrous	7757-82-6	75	200	500	500	mg/m^3	**T-0, P-1**	
2799	Sodium sulfhydrate; (Sodium hydrosulfide)	16721-80-5	0.06	0.15	1.25	6	mg/m^3		
2800	Sodium sulfide	1313-82-2	0.75	2.5	15	75	mg/m^3		
2801	Sodium sulfide nonahydrate	1313-84-4	0.2	0.6	4	20	mg/m^3		HHR = 3 in MSDS.
2802	Sodium sulfite	7757-83-7	1	3	20	100	mg/m^3	**T-0, P-1, P-2**	

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No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
2803	Sodium tartrate dihydrate	6106-24-7	5	15	100	500	mg/m^3		Not found in databases. NFPA HHR = 1, MSDS pchem and rat LD50 data.
2804	Sodium tellurate	10101-83-4	0.186	0.559	0.931	150	mg/m^3		
2805	Sodium tellurite	10102-20-2	0.174	0.521	20	25	mg/m^3		
2806	Sodium tetrafluoroborate(1-)	13755-29-8	3.61	10.8	18.1	361	mg/m^3	**P-3**	
2807	Sodium tetraphenyl borate	143-66-8	1.25	3.5	25	125	mg/m^3		
2808	Sodium thiosulfate	7772-98-7	20	60	400	500	mg/m^3	**T-0, P-1, P-2**	
2809	Sodium thiosulfate pentahydrate	10102-17-7	1.25	3.5	25	500	mg/m^3	**T-0, P-1, P-2**	
2810	Sodium titanate	12034-34-3	10	30	50	250	mg/m^3		TSCA listed, no toxicity or pchem data found.
2811	Sodium tolyltriazole; (1H-Benzotriazole, 4(or 5)-methyl-, sodium salt)	64665-57-2	2.5	7.5	50	250	mg/m^3		TSCA listed. Toxicity data found "www.epa.gov/HPV/pubs/summaries/benzo/c13456tp.pdf."
2812	Sodium tridecylbenzene sulfonate	26248-24-8	2	6	40	200	mg/m^3		MF and MW differ in databases. No mammalian toxicity data found, HSDB probable human LD 0.5-5.0 g/kg.
2813	Sodium triethylborohydride	17979-81-6	22.6	67.7	67.7	150	mg/m^3	**P-2**	Not found in databases, MSDS HHR = 3.
2814	Sodium trihydrogen silicate	z-0076	10	30	50	250	mg/m^3		
2815	Sodium tripolyphosphate	7758-29-4	1.25	3.5	25	500	mg/m^3	**T-0, P-1, P-2**	
2816	Sodium tungstate	13472-45-2	1	3	3	500	mg/m^3	**P-2**	
2817	Sodium tungstate dihydrate	10213-10-2	1.79	5.38	15	75	mg/m^3		
2818	Sodium uranate; (Disodium uranate hexahydrate)	66018-57-3	0.39	0.935	3	15.6	mg/m^3	**T-0**	
2819	Sodium uranium oxide monohydrate; (Sodium uranate(VI) monohydrate)	10135-92-9	0.342	0.822	2.5	13.7	mg/m^3	**T-0**	Changed CASRN, but HC&P has CASRN = 13721-34-1, with MW and MF. No toxicity data found.
2820	Sodium uranyl carbonate	z-0078	0.45	1.08	3.5	18	mg/m^3	**T-0, P-1, P-2, P-3**	MF and MW corrected.
2821	Sodium zirconate; (Disodium zirconium oxide)	12201-48-8	10.9	21.8	21.8	54.6	mg/m^3		

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Table 2: Protective Action Criteria (PAC) Rev 25
Based on applicable AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
2822	Sodium-Potassium	11135-81-2	0.5	0.5	5	50	mg/m^3		ERPGs for Na.OH used. MW for 78wt.% K and 22 wt.% Na.
2823	Solvent naphtha, petroleum, medium aliphatic; (Mineral spirits, naphtha)	64742-88-7	25	75	500	500	mg/m^3		
2824	Solvent Yellow 3	97-56-3	2	6	40	500	mg/m^3		
2825	**Soman; (3,3-Dimethyl-2-butyl methylphosphonofluoridate; GD)**	**96-64-0**	3.00E-05	**0.00018**	**0.0022**	**0.017**	ppm		**Final AEGL-1, -2, -3**
2826	Sorbitan monolaurate; (D-Glucitol, 1,4-anhydro-, 6-dodecanoate)	5959-89-7	10	30	50	250	mg/m^3		TSCA, H&N listed. No toxicity or pchem data found.
2827	Sorbitan monostearate polyoxyethylene; (Ethoxylated sorbitan monostearate)	9005-67-8	0.75	2	15	500	mg/m^3		No pchem data found.
2828	Sorbitan trioleate	26266-58-0	15	50	350	500	mg/m^3		No pchem data found.
2829	Sorbitan, monolaurate	1338-39-2	350	500	500	500	mg/m^3		No pchem data found.
2830	Sorbitan, monooleate	1338-43-8	250	500	500	500	mg/m^3		
2831	Sorbitan, monooleate polyoxyethylene; (Polyethylene sorbitan monooleate; Tween 80)	9005-65-6	0.75	2.5	15	500	mg/m^3		MF and MW unknown.
2832	Sorbitan, monostearate	1338-41-6	400	500	500	500	mg/m^3		
2833	Sorbitol, D-; (D-Glucitol)	50-70-4	40	125	500	500	mg/m^3		Pchem data vary among sources.
2834	Soybean oil; (Glycine SOJA)	8001-22-7	40	100	500	500	mg/m^3	Added.	Added.
2835	Spiro(isobenzofuran-1(3H),9'-(9H)xanthen)-3-one, 3',6'-dihydroxy-; (Fluorescein)	2321-07-5	0.4	1.25	7.5	250	mg/m^3		Density not available, assumed to be 1.0.
2836	Squalene; (2,6,10,15,19,23-Hexamethyl-2,6,10,14,18,22-tetracosahexene, (all-E)-)	111-02-4	20	60	400	500	mg/m^3		Duplicate deleted. MSDS pchem data.
2837	Stannic chloride; (Tin(IV) chloride; Tin(IV) tetrachloride)	7646-78-8	4.39	4.39	5	219	mg/m^3		
2838	Stannous chloride; (Tin(II) chloride (1:2))	7772-99-8	3.19	9.58	50	160	mg/m^3		Tin inorganic compounds, as Sn. Toxicity data updated.
2839	Stannous octoate	301-10-0	0.341	2.5	15	85.3	mg/m^3	**P-1**	TSCA listed, MSDS data.
2840	Starch dust	9005-25-8	15	30	500	500	mg/m^3		Synonym deleted, conc. dep. changed from "Y" to "N."
2841	**Stibine; (Antimony hydride)**	**7803-52-3**	0.1	0.2	**1.5**	**9.6**	ppm		**Interim AEGL-2, -3** **ERPG-2, -3**

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Table 2: Protective Action Criteria (PAC) Rev 25
Based on applicable AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
2842	Stilbene	588-59-0	5	15	100	500	mg/m^3		
2843	Stilbene 3; (Stilbene 420; Tinopal CBS; Disodium 4,4'-bis(2-sulfostyryl)biphenyl)	27344-41-8	0.25	0.75	6	500	mg/m^3		
2844	Stoddard solvent; (Mineral spirits, 85% nonane and 15% trimethyl benzene)	8052-41-3	100	100	350	***3,850***	ppm	**T-0, P-1, P-2, P-3**	Changed units from mg/m^3 to ppm.
2845	Strontium	7440-24-6	40	125	500	500	mg/m^3	**T-0, P-1, P-2, P-3**	
2846	Strontium carbonate	1633-05-2	10	30	200	500	mg/m^3	**T-0, P-1, P-2, P-3**	HSDB and TSCA MF = C-H2-O3-Sr. SAR not used.
2847	Strontium chloride	10476-85-4	7.5	20	150	500	mg/m^3		"Heptahydrate" removed from name, MW and MF corrected.
2848	Strontium hydroxide	18480-07-4	0.75	0.75	20	75	mg/m^3		RTECS has some toxicity data. **SAR**
2849	Strontium nitrate	10042-76-9	10	35	250	500	mg/m^3	**P-1**	
2850	Strontium nitrite; (Nitrous acid, strontium salt)	13470-06-9	0.04	0.1	0.75	75	mg/m^3		**SAR**
2851	Strontium oxalate	814-95-9	7.5	25	60	75	mg/m^3		TSCA MF = C2-H2-O4.Sr No toxicity data found. **SAR**
2852	Strontium phosphate; (Strontium orthophosphate)	14414-90-5	10	30	500	500	mg/m^3		RTECS MF = H3-O4-P.xSr, MW = 448.48, x = 4. HC&P CASRN = 7446-28-8, MW = 452.80. **SAR**
2853	**Strontium phosphide**	**12504-13-1**	0.2	0.6	**1.0**	**1.8**	ppm		**Final AEGL-2, -3**
2854	Strontium sulfate	7759-02-6	10	30	50	250	mg/m^3		
2855	Strychnine	57-24-9	0.15	0.3	0.3	3	mg/m^3		
2856	Strychnine sulfate (2:1)	60-41-3	1	3	5	30	mg/m^3		
2857	**Styrene**	**100-42-5**	20	**20**	**130**	***1100***	ppm		**Interim AEGL-1, -2, -3**
2858	Styrene oxide; (1,2-Epoxyethylbenzene)	96-09-3	4	12.5	50	50	ppm		
2859	Styrene-allyl alcohol copolymer	25119-62-4	10	30	50	250	mg/m^3		TSCA listed, no toxicity or pchem data found. No MSDS, assumed solid.
2860	Styrene-divinylbenzene resin, chloromethylated, aminated with trimethylamine; (Bio-Rad AG1-X8 anion exchange resin, formate form)	60177-39-1	10	30	50	250	mg/m^3		Name changed, CASRN changed from 81133-20-2, Listed in SAX and TSCA, no toxicity data found.
2861	Styrenesulfonate), poly(sodium 4-	25704-18-1	150	500	500	500	mg/m^3		Added. Rat oral LD50 > 8 g/kg.

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Table 2: Protective Action Criteria (PAC) Rev 25
Based on applicable AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
2862	Succinic acid	110-15-6	7.5	25	200	500	mg/m^3		
2863	Succinic anhydride	108-30-5	0.75	2	15	500	mg/m^3		
2864	Succinimidyl-6-(beta-maleimidopropionamido)hexanoate; (SMPH)	z-0120	10	30	50	250	mg/m^3	Added.	Added. Not found in databases. PNOS default used.
2865	Sucrose	57-50-1	15	30	50	500	mg/m^3		
2866	Sucrose, diacetate hexaisobutyrate; (Sucrose acetate isobutyrate; SAIB)	126-13-6	12.5	40	300	500	mg/m^3		
2867	Sulfamic acid	5329-14-6	12.5	40	250	500	mg/m^3		
2868	Sulfanilamide	63-74-1	1	3	20	500	mg/m^3		
2869	Sulfanilic acid	121-57-3	50	150	500	500	mg/m^3		
2870	Sulfonic acids, petroleum; (Petrolatum acid sulfonate)	61789-85-3	10	30	50	250	mg/m^3		
2871	Sulfonylbis-ethanol, 2,2'-	2580-77-0	1.5	5	35	150	mg/m^3		Name corrected. TSCA, H&N listed, pchem data ex MSDS, no toxicity data.
2872	Sulfosalicylic acid	97-05-2	10	30	200	500	mg/m^3		
2873	Sulfosalicylic acid, dihydrate, crystal	5965-83-3	7.5	20	150	500	mg/m^3		Not found in databases. MSDS MP and rat LD50.
2874	Sulfotep; (TEDP)	3689-24-5	0.2	0.5	3.5	10	mg/m^3		
2875	Sulfur	7704-34-9	0.125	0.4	2.5	12.5	mg/m^3		
2876	**Sulfur dioxide**	**7446-09-5**	0.2	**0.20**	**0.75**	**30**	ppm		**Interim AEGL-1, -2, -3** PEL-TWA suppressed.
2877	Sulfur hexafluoride	2551-62-4	1,000	3,000	5,000	5,000	ppm		
2878	**Sulfur monochloride**	**10025-67-9**	0.53	**0.53**	**6.4**	**15**	ppm		**Interim AEGL-1, -2, -3**
2879	Sulfur pentafluoride	5714-22-7	0.01	0.01	0.01	1	ppm		
2880	Sulfur tetrafluoride	7783-60-0	0.1	0.3	2.08	2.08	ppm		
2881	**Sulfur trioxide**	**7446-11-9**	0.06	**0.20**	**8.7**	**160**	mg/m^3		**Interim AEGL-1, -2, -3** Separately listed 01/04/99.

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Table 2: Protective Action Criteria (PAC) Rev 25
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No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
2882	**Sulfuric acid**	**7664-93-9**	0.2	**0.20**	**8.7**	**160**	mg/m^3		**Interim AEGL-1, -2, -3**
2883	Sulfuric Acid-d2; (Deuterosulfuric acid)	13813-19-9	0.2	0.2	8.7	160	mg/m^3	**T-0, P-1, P-2, P-3**	Added. TSCA listed, no toxicity data found, MBDS HHR = 3.
2884	Sulfurous acid	7782-99-2	0.0125	0.04	0.3	1.5	mg/m^3		Exists only in solution.
2885	**Sulfuryl chloride**	**7791-25-5**	0.1	**0.3**	**3.7**	**11**	ppm	**T-0, P-1**	**Interim AEGL-2, -3** **ERPG-1, -2, -3**
2886	**Sulfuryl fluoride**	**2699-79-8**	5	10	**21**	**64**	ppm		**Interim AEGL-2, -3**
2887	Talc	14807-96-6	2	2	10	500	mg/m^3		
2888	Tall oil (alkyd resin)	68333-62-0	10	30	50	250	mg/m^3		
2889	Tantalum	7440-25-7	5	10	200	500	mg/m^3	**P-2**	
2890	Tantalum carbide	12070-06-3	5.33	10.7	500	500	mg/m^3		TSCA and HSDB listed, no specific toxicity data.
2891	Tantalum(V) ethoxide	6074-84-6	10	30	50	250	mg/m^3		TSCA, HC&P listed, no toxicity data, assumed nonvolatile.
2892	Tantalum(V) fluoride	7783-71-3	7.26	21.8	36.3	500	mg/m^3	**P-3**	
2893	Tantalum(V) oxide	1314-61-0	6.11	12.2	60	500	mg/m^3	**P-2**	
2894	Tartaric acid	87-69-4	4	12.5	75	400	mg/m^3		
2895	Tartaric acid, monopotassium salt	868-14-4	150	500	500	500	mg/m^3		
2896	Tartaric acid, monosodium salt	526-94-3	15	50	400	500	mg/m^3		No pchem data found.
2897	Technetium(IV) oxide	12036-16-7	10	30	50	250	mg/m^3		Radiation dose will dominate.
2898	Tellurium	13494-80-9	0.1	0.3	20	25	mg/m^3		
2899	Tellurium chloride	10026-07-0	0.211	0.633	15	52.8	mg/m^3		
2900	Tellurium hexafluoride	7783-80-4	0.0379	0.101	0.101	1.89	ppm		
2901	Tellurium oxide; (Tellurium dioxide)	7446-07-3	0.125	0.375	5	31.3	mg/m^3		

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
2902	Tellurous acid	10049-23-7	0.139	0.418	0.696	34.8	mg/m^3		
2903	Terbium	7440-27-9	1.5	5	35	150	mg/m^3		TSCA listed, no toxicity data found. SRS HHR = 3.
2904	Terbium oxide	12036-41-8	10	30	50	250	mg/m^3		No toxicity data, PNOS used, no stable isotopes.
2905	Terbium(III,IV) oxide	12037-01-3	10	30	50	250	mg/m^3		TSCA listed, no toxicity or pchem data found. MSDS S, MP, HHR =1.
2906	Terbufos	13071-79-9	0.01	0.03	1	1	mg/m^3		
2907	Terephthalic acid	100-21-0	10	125	500	500	mg/m^3		
2908	Terephthaloyl chloride	100-20-9	0.75	2.5	20	500	mg/m^3		
2909	Terphenyl, p-	92-94-4	0.4	1.25	9	500	mg/m^3		
2910	Terphenyls; (Diphenylbenzene)	26140-60-3	0.4	1.25	9	500	mg/m^3	**T-0, P-1**	
2911	Tert-butyl alcohol; (tert-Butanol)	75-65-0	100	150	1,600	1,600	ppm		
2912	Tert-butyl benzoic acid, p-	98-73-7	2	6	50	200	mg/m^3		
2913	Tert-butyllithium	594-19-4	1.5	5	35	150	mg/m^3		Unstable, stored in pentane or similar. No toxicity data found.
2914	Tert-butylphenol, p-; (Tert-butylphenol, 4-)	98-54-4	0.5	0.5	0.75	500	mg/m^3		
2915	Tert-butylpyridine, 4-	3978-81-2	10	30	50	250	mg/m^3		No toxicity data found. HC&P, ChemFinder listed.
2916	Tetraamminepalladium(II) nitrate	13601-08-6	1.5	5	35	150	mg/m^3		No toxicity information. LD50 based on HR.
2917	Tetrabromoethane, 1,1,2,2-; (Acetylene tetrabromide)	79-27-6	0.1	6	8	8	ppm		Ignored PEL=TWA.
2918	Tetrabutyl ammonium phosphate	5574-97-0	10	30	50	250	mg/m^3		Not found in databases. Duplicate with "dihydrogen" deleted.
2919	Tetrabutyl titanate; (Butyl titanate)	5593-70-4	0.75	2.5	20	100	ppm		
2920	Tetrabutylammonium fluoride; (N,N,N-Tributyl-1-butanaminium, fluoride)	429-41-4	34.4	103	172	500	mg/m^3		TSCA listed, no toxicity data, HHR = 3 in MSDS.
2921	Tetrabutylammonium hydroxide	2052-49-5	0.06	0.15	1.25	6	mg/m^3		

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
2922	Tetrabutylammonium nitrate	1941-27-1	0.075	0.25	1.5	7.5	mg/m^3		
2923	Tetrachloro-1,2-difluoroethane, 1,1,2,2-	76-12-0	50	150	2,000	2,000	ppm	**T-0, P-1**	PEL-TWA ignored.
2924	Tetrachlorobenzene, 1,2,3,4-	634-66-2	12.5	35	250	500	mg/m^3		
2925	Tetrachlorobenzene, 1,2,4,5-	95-94-3	6	15	125	500	mg/m^3	**T-0, P-1, P-2**	
2926	Tetrachlorodibenzofuran, 2,3,7,8-	51207-31-9	6.00E-04	0.002	0.002	0.002	mg/m^3		
2927	Tetrachlorodibenzo-p-dioxin, 1,2,3,8-	53555-02-5	0.004	0.0125	0.075	0.4	mg/m^3		
2928	Tetrachloroethane (mixed isomers)	25322-20-7	1.5	5	35	400	ppm		
2929	Tetrachloroethane, 1,1,1,2-	630-20-6	3	7.5	60	200	ppm		
2930	Tetrachloroethane, 1,1,2,2-	79-34-5	1	3	30	100	ppm	**T-0, P-1**	PEL-TWA ignored.
2931	Tetrachlorohexafluorobutane, 2,2,3,3-; (FLON; CFC316)	375-34-8	0.2	0.6	4	20	ppm		
2932	**Tetrachlorosilane; (Silicon chloride)**	**10026-04-7**	0.15	**0.45**	**5.5**	**25**	ppm		**Interim AEGL-1, -2, -3** **ERPG-1, -2, -3**
2933	Tetracosafluorotetradecahydro-phenanthrene; (Perfluorophenanthrene)	306-91-2	3.42	10.3	17.1	342	mg/m^3	**P-3**	No toxicity data found.
2934	Tetracyanoquinodimethane	1518-16-7	0.4	1.25	10	50	mg/m^3		
2935	Tetracycline hydrochloride	64-75-5	0.75	2.5	15	500	mg/m^3		
2936	Tetradecafluorohexane; (Perfluoro-n-hexane; Fluorinert FC72)	355-42-0	200	600	4,000	25,000	ppm		Rat LD50 > 5g/kg, rat LClo > 40000 ppm.
2937	Tetradecane; (n-Tetradecane)	629-59-4	0.015	0.04	0.3	***1,250***	ppm		See LEL formatting note.
2938	Tetradecanoic acid; (Myristic acid)	544-63-8	0.35	1	7.5	35	mg/m^3		
2939	Tetradecyltrimethylammonium bromide	1119-97-7	15	50	350	500	mg/m^3		
2940	Tetraethyl lead	78-00-2	0.117	0.468	4	62.4	mg/m^3	**P-2**	
2941	**Tetraethyl orthosilicate; (Ethyl silicate; Tetraethoxysilane)**	**78-10-4**	10	**25**	**100**	**300**	ppm	**T-0**	**ERPG-1, -2, -3**

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
2942	Tetraethyl pyrophosphate; (TEPP)	107-49-3	0.01	0.15	1	5	mg/m^3	T-0	PEL-TWA ignored.
2943	Tetraethylammonium chloride	56-34-8	0.25	0.75	6	500	mg/m^3		
2944	Tetraethylene glycol	112-60-7	125	350	500	500	mg/m^3		
2945	Tetraethylene glycol diacrylate	17831-71-9	1	3.5	25	350	mg/m^3		ChemFinder states "pale yellow liquid," but gives MP = 112 C, insoluble in H2O.
2946	Tetraethylenepentamine	112-57-2	5	50	350	500	mg/m^3	P-1	WEEL added, toxicity data corrected.
2947	Tetraethyltin; (Tetraethylstannane)	597-64-8	0.198	0.396	7	49.5	mg/m^3		
2948	**Tetrafluoroethane, 1,1,1,2-; (HFC 134a)**	**811-97-2**	1,000	**8000**	**13000**	**27000**	ppm		**Final AEGLs -1,-2,-3**
2949	Tetrafluoroethane, 1,1,2,2-; (HFC 134)	359-35-3	100	8,000	13,000	27,000	ppm	T-0, P-1, P-2, P-3	
2950	**Tetrafluoroethylene**	**116-14-3**	2	**220**	**550**	**3300**	ppm		**Interim AEGL-1, -2, -3** **ERPG-1, -2, -3**
2951	Tetrafluorohydrazine	10036-47-2	0.805	2.5	15	110	ppm		
2952	Tetrahydro-2,5-dimethyl furan	1003-38-9	15	50	350	500	mg/m^3		Used Tetrahydrodimethylfuran CASRN 1320-94-1.
2953	**Tetrahydrofuran**	**109-99-9**	50	**100**	**500**	***5000***	ppm		**ERPG-1, -2, -3** PEL-TWA suppressed. See LEL formatting note.
2954	Tetrahydrofuran-d8	1693-74-9	50	100	500	5,000	ppm	T-0	Not found in databases. ChemFinder MW, MF and pchem data.
2955	Tetrahydromethyl-1,3-isobenzofurandione, 3A,4,7,7A-; (Methyltetrahydrophthalic anhydride)	26590-20-5	10	30	200	500	mg/m^3	Added.	Added. Density assumed, rat oral LD50 = 2140 uL/kg.
2956	Tetrahydronaphthalene, 1,2,3,4-; (Tetralin)	119-64-2	0.2	0.6	5	20	ppm		
2957	Tetrahydropyridine, 1,2,3,6-	694-05-3	2.94	8.83	15	75	ppm		HC&P, H&N listed, no toxicity data.
2958	Tetramethoxypropane, 1,1,3,3-; (Malonaldehyde bis(dimethyl acetal))	102-52-3	7.5	25	150	500	mg/m^3		TSCA and HC&P name inserted. No toxicity data found, assume HHR = 2.
2959	**Tetramethoxysilane; (Methyl silicate)**	**681-84-5**	0.91	0.91	**0.91**	**1.4**	ppm		**Interim AEGL-2, -3** **ERPG-2, -3**
2960	Tetramethyl ammonium, tetrahydroborate(1-)	16883-45-7	0.3	1	6	35	mg/m^3		
2961	Tetramethyl ethylene diamine	110-18-9	10	30	125	125	ppm		

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Table 2: Protective Action Criteria (PAC) Rev 25
Based on applicable AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
2962	Tetramethyl lead	75-74-1	0.0968	0.581	4	51.6	mg/m^3		
2963	Tetramethyl-1,3-butanediamine, N,N,N',N'-; (Tetramethyl butanediamine)	97-84-7	2	6	40	200	mg/m^3		
2964	Tetramethyl-3,5-heptanedione, 2,2,6,6-; (Dipivaloylmethane)	1118-71-4	10	30	50	250	mg/m^3		TSCA listed, no toxicity data found.
2965	Tetramethyl-5-decyne-4,7-diol, 2,4,7,9-	126-86-3	10	30	50	250	mg/m^3		
2966	Tetramethylammonium chloride	75-57-0	0.2	0.6	4	20	mg/m^3		
2967	Tetramethylammonium hydroxide	75-59-2	0.3	0.75	2	2	mg/m^3	**T-0, P-1, P-2, P-3**	RTECS data added.
2968	Tetramethylammonium hydroxide pentahydrate	10424-65-4	0.6	1.5	4	4	mg/m^3	**T-0, P-1, P-2, P-3**	Used MW-adjusted toxicity data for Tetramethylammonium hydroxide, 75-59-2.
2969	Tetramethylammonium silicate	53116-81-7	10	30	50	250	mg/m^3		Not found in databases. MF, Mw and SG ex MSDS.
2970	Tetramethylbenzene, 1,2,3,5-	527-53-7	0.15	0.5	3.5	500	mg/m^3		
2971	Tetramethylbenzene, 1,2,4,5-	95-93-2	30	100	500	500	mg/m^3		
2972	Tetramethylbenzidine, 3,3',5,5'-	54827-17-7	0.5	1.5	10	60	mg/m^3		
2973	Tetramethylene sulfone; (Sulfolane; Tetrahydrothiophene-1,1-dioxide)	126-33-0	125	200	200	200	mg/m^3		Rat LClo > 250 mg/m^3.
2974	Tetramethylsilane	75-76-3	5	15	25	125	ppm		
2975	**Tetranitromethane**	**509-14-8**	0.52	0.52	**0.52**	**1.7**	ppm		**Final AEGL -2, -3**
2976	Tetraoxadodecane, 2,5,8,11-	112-49-2	1	3	20	100	ppm		
2977	Tetraoxatetracosan-1-ol, 3,6,9,12-; ((Laurel alcohol tri(oxyethylene) ethanol; BRIJ 30)	5274-68-0	10	30	50	250	mg/m^3		No toxicity data found.
2978	Tetraphenylarsonium chloride; (Tetraphenylarsenium chloride)	507-28-8	2.79	8.38	14	25	mg/m^3		
2979	Tetrapotassium ethylenediaminetetraacetate; (EDTA tetrapotassium salt)	5964-35-2	4	15	75	400	mg/m^3		EDTA tetrapotassium salt, MW corrected to match MF. No toxicity data. **SAR**
2980	Tetrapropoxysilane	682-01-9	7.5	25	150	500	mg/m^3		TSCA listed, no toxicity data found. MSDS pchem data, SRS HHR = 2. BP = 226 C in HC&P.
2981	Tetrapropylammonium hydroxide	4499-86-9	0.15	0.5	3.5	15	mg/m^3		

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Table 2: Protective Action Criteria (PAC) Rev 25
Based on applicable AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
2982	Tetrapropylorthotitanate	3087-37-4	10	30	50	250	mg/m^3		TSCA listed, no toxicity data. MSDS not helpful, assumed nonvolatile liquid.
2983	Tetrasodium pyrophosphate	7722-88-5	5	15	25	500	mg/m^3		TLV-TWA deleted.
2984	Tetrazole, 1H-	288-94-8	1.5	5	35	150	mg/m^3	**T-0, P-1, P-2**	HHR = 3
2985	Thallium	7440-28-0	0.15	0.5	3	3	mg/m^3	**T-0, P-1, P-2, P-3**	
2986	Thallium chloride; (Thallium(I) chloride)	7791-12-0	0.117	0.352	2	17.6	mg/m^3	**T-0, P-1, P-3**	
2987	Thallium hydroxide	12026-06-1	0.108	0.325	0.542	16.2	mg/m^3		
2988	Thallium nitrate; (Thallium(I) nitrate)	10102-45-1	0.13	0.391	19.6	19.6	mg/m^3		
2989	Thallium nitrite	13826-63-6	0.123	0.368	0.613	18.4	mg/m^3		Assumed soluble in water.
2990	Thallium oxide	1314-12-1	0.104	0.312	0.52	15.6	mg/m^3		
2991	Thallium sulfate; (Sulfuric acid, dithallium(1+) salt)	10031-59-1	0.107	0.32	2	16	mg/m^3		. RTECS & HSDB MW = 1528.67.
2992	Thallium(I) acetate; (Acetic acid, thallium(1+) salt)	563-68-8	0.129	0.387	2.5	19.3	mg/m^3		
2993	Thallium(I) carbonate (2:1)	6533-73-9	0.115	0.344	2	17.2	mg/m^3	**T-0, P-1, P-3**	
2994	Thallium(I) sulfate; (Sulfuric acid, dithallium(1+) salt)	7446-18-6	0.123	0.37	2	18.5	mg/m^3	**P-2, P-3**	PEL-TWA added, toxicity data updated.
2995	Thallium(III) oxide; (Thallium sesquioxide; Thallic oxide)	1314-32-5	0.4	1.25	2	20	mg/m^3		
2996	Thallium(III) perchlorate hexahydrate	15596-83-5	0.299	1.25	7.5	44.8	mg/m^3	**P-1**	Used Thallium soluble compound limits, assumed to be "hexahydrate."
2997	Thallous malonate	2757-18-8	0.4	1.25	2	7.5	mg/m^3	**T-0, P-1, P-3**	
2998	Thenoyltrifluoroacetone	326-91-0	1.25	3.5	25	125	mg/m^3		
2999	Thioacetamide	62-55-5	6	15	125	125	mg/m^3	**T-0, P-1, P-2**	
3000	Thioacetic acid	507-09-5	0.006	0.02	0.125	10	ppm		
3001	Thiobis(4-chloro-6-methyl)phenol, 2,2'-	4418-66-0	0.25	0.75	1.3	1.3	mg/m^3		

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Table 2: Protective Action Criteria (PAC) Rev 25
Based on applicable AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
3002	Thiocarbazide; (Thiocarbohydrazide)	2231-57-4	20	60	100	100	mg/m^3		
3003	Thiocresol, p-; (p-Toluenethiol)	106-45-6	0.75	2.5	15	75	mg/m^3		
3004	Thiocyanic acid, compound with guanidine (1:1); (Guanidene thiocyanate salt)	593-84-0	1.25	3.5	25	125	mg/m^3		
3005	Thiodiglycol	111-48-8	25	75	500	500	mg/m^3		
3006	Thiofanox; (Dacamox)	39196-18-4	1.5	5	8.5	30	mg/m^3	**T-0, P-1**	
3007	Thionazin; (Ethyl pyrazinyl phosphorothioate)	297-97-2	0.6	2	3.5	3.5	mg/m^3		
3008	**Thionyl chloride**	**7719-09-7**	0.06	**0.2**	**2.4**	**14**	ppm		**Interim AEGL-2, -3** **ERPG-1, -2, -3**
3009	Thiophosphoryl chloride	3982-91-0	1.25	4	25	60	mg/m^3		
3010	Thiosemicarbazide	79-19-6	1.5	5	9.2	9.2	mg/m^3	**T-0, P-1, P-2, P-3**	
3011	Thiourea	62-56-6	1.25	4	25	125	mg/m^3	**T-0, P-1**	
3012	Thiram; (Tetramethylthioperoxydicarbonic diamide)	137-26-8	0.06	10	75	100	mg/m^3	**T-0, P-1, P-2**	PEL-TWA >> TLV-TWA ignored. Human monitoring data ignored.
3013	Thorium	7440-29-1	0.35	1	6	35	mg/m^3	**T-0, P-1, P-2, P-3**	
3014	Thorium hydroxide	13825-36-0	0.75	0.75	2.5	75	mg/m^3		NLM has CASRN 12688-06-1, but no toxicity data found. **SAR**
3015	Thorium nitrite	z-0079	0.05	0.125	0.75	75	mg/m^3		**SAR**
3016	Thorium oxalate	2040-52-0	42.1	126	210	500	mg/m^3		TSCA listed, MF, MP ex Hawley. Ts based on Derived Response Level (DRL) for Th, converted from uCi/cm^3 to mg/m^3.
3017	Thorium oxide; (Thorium dioxide)	1314-20-1	25	75	500	500	mg/m^3		Rat it LD50 > 1140 mg/kg.
3018	Thorium perchlorate	16045-17-3	31.4	94.3	157	500	mg/m^3		Ts based on Derived Response Level (DRL) for Th, converted from uCi/cm^3 to mg/m^3.
3019	Thorium(IV) nitrate	13823-29-5	0.75	2	15	25	mg/m^3		
3020	Thulium	7440-30-4	10	30	50	250	mg/m^3		No toxicity data found, but lanthanides have moderate toxicity.
3021	Thulium chloride	13537-18-3	15	50	350	500	mg/m^3		"Heptahydrate" removed from name.

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Based on applicable AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
3022	Thulium oxide	12036-44-1	10	30	50	250	mg/m^3	**T-0, P-1, P-2, P-3**	No toxicity data found, PNOS used, no stable isotopes.
3023	Thymol blue; (6,6'-(3H-2,1-benzoxathiol-3-ylidene)dithymol, S,S-dioxide)	76-61-9	10	30	50	250	mg/m^3		No toxicity data found.
3024	Thyodene; (Amylodextrin)	9005-84-9	10	30	50	250	mg/m^3		
3025	Tin	7440-31-5	2	6	100	100	mg/m^3		
3026	Tin fluoroborate	13814-97-6	4.93	14.8	25	246	mg/m^3		No pchem data found.
3027	Tin hydroxide	12026-24-3	2.57	7.72	12.9	129	mg/m^3		
3028	Tin nitrate	41480-79-9	4.09	12.3	20.4	204	mg/m^3		
3029	Tin nitrite	100737-27-7	3.55	10.7	17.8	178	mg/m^3		
3030	Tin(II) chloride dihydrate; (Stannous chloride dihydrate)	10025-69-1	3.8	11.4	20	190	mg/m^3		
3031	Tin(II) oxide	1332-29-2	2.54	7.62	12.7	60	mg/m^3		Data corrected IDLH does not apply.
3032	Tin(II) sulfate; (Stannous sulfate)	7488-55-3	3.62	10.9	18.1	181	mg/m^3		
3033	Tin(IV) isopropoxide	1184-61-8	0.35	0.7	15	87.4	mg/m^3		
3034	Tin(IV) oxide; (Stannic oxide)	18282-10-5	2.54	7.62	12.7	500	mg/m^3		Rat oral LD50 > 20 g/kg.
3035	Titanium	7440-32-6	0.6	2	12.5	60	mg/m^3	**T-0, P-1, P-2, P-3**	Multigenerational dose assumed over 10 dosing days per generation.
3036	Titanium aluminide	39410-63-4	2.77	8.32	13.9	60	mg/m^3	**T-0, P-1, P-2, P-3**	TSCA lists CASRN = 12004-78-3.
3037	Titanium boride	12045-63-5	6.43	19.3	32.1	150	mg/m^3	**T-0, P-1, P-2, P-3**	No toxicity data found. Kept "N" for concentration-dependent toxicity.
3038	Titanium carbide	12070-08-5	10	30	50	250	mg/m^3	**T-0, P-1, P-2, P-3**	No toxicity data found.
3039	Titanium chloride	7705-07-9	0.5	1.5	10	50	mg/m^3		
3040	Titanium hydride	7704-98-5	1.5	5	35	150	mg/m^3		
3041	Titanium oxide; (Titanium dioxide)	13463-67-7	15	30	50	500	mg/m^3	**P-1, P-2**	Changed "Y" to "N."

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Based on applicable AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
3042	**Titanium tetrachloride**	**7550-45-0**	0.0645	0.645	**1.0**	**5.7**	ppm		**Interim AEGL-2, -3** **ERPG-1, -2, -3**
3043	Titanium(II) oxide	12137-20-1	10	30	50	250	mg/m^3		
3044	Titanium(III) fluoride	13470-08-1	4.6	12.5	75	460	mg/m^3		CASRN changed from 7783-63-3.
3045	Titanium-based alloy; (Titanium compounds)	z-0081	10	30	50	250	mg/m^3		
3046	**Toluene**	**108-88-3**	20	**200**	***1200***	***4500***	ppm		**Interim AEGL-1, -2, -3** See LEL formatting note.
3047	Toluene diisocyanate (mixed isomers)	26471-62-5	0.25	0.75	2	2	ppm		
3048	Toluene diisocyanate, trimethylolpropane, epsilon-caprolactone polymer, methylated	71342-93-3	10	30	50	250	mg/m^3		Name changed. TSCA listed. No toxicity or pchem data found.
3049	**Toluene-2,4-diisocyanate; (TDI)**	**584-84-9**	0.005	**0.020**	**0.083**	**0.51**	ppm		**Final AEGL-1, -2, -3**
3050	Toluene-2,6-diamine; (2-Methyl-1,3-benzenediamine)	823-40-5	1.5	4	30	150	mg/m^3		LD50 estimated.
3051	**Toluene-2,6-diisocyanate**	**91-08-7**	0.005	**0.020**	**0.083**	**0.51**	ppm		**Final AEGL-1, -2, -3**
3052	Toluene-d8; (Deuterated toluene)	2037-26-5	20	200	1,200	4,500	ppm	**T-0, P-2, P-3**	Not found in databases, pchem data ex ChemFinder.
3053	Toluenediamine, 2,4-; (2,4-Diaminotoluene)	95-80-7	0.005	1.5	12.5	50	ppm	**P-1, P-2, P-3**	Units changed from mg/m^3 to ppm.
3054	Toluenesulfonamide, p-; (Pasam)	70-55-3	1	3	20	100	mg/m^3		ChemFinder MF, MW, but irritation not used.
3055	Toluenesulfonic acid, methyl ester, p-	80-48-8	0.75	2.5	15	150	mg/m^3		
3056	Toluenesulfonyl chloride, p-	98-59-9	2.5	7.5	50	250	mg/m^3		WEEL-C modified by toxicity data.
3057	Toluenesulphonic acid monohydrate, para-; (4-Methylbenzenesulphonic acid monohydrate)	6192-52-5	10	30	200	500	mg/m^3		SAX CASRN = 104-15-4, MW = 172.21 without "hydrate."
3058	Toluenethiol, m-	108-40-7	0.2	0.6	4	20	mg/m^3		
3059	Toluidine, m-; (3-Methylaniline)	108-44-1	2	7.5	40	40	ppm		Synonym corrected.
3060	Toluidine, o-	95-53-4	5	5	5	50	ppm		Name corrected. Conc. dep. Changed from "N" to "Y."
3061	Toluidine, p-; (4-Methylbenzenamine)	106-49-0	2	15	125	150	mg/m^3		New data inserted.

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
3062	Toxaphene; (Chlorinated camphene)	8001-35-2	0.5	1	20	200	mg/m^3		
3063	Trans-1,4-dichlorobutene; (2-Butylene dichloride)	110-57-6	0.04	0.125	0.861	7.5	ppm		
3064	Transformer oil; (Mineral oil, petroleum distillates, hydrotreated (mild) light naphthenic)	64742-53-6	5	15	100	500	mg/m^3		Severe irritant rabbit skin.
3065	Tri(2-ethylhexyl) phosphate; (Tris(2-ethylhexyl)phosphate)	78-42-2	12.5	12.5	12.5	12.5	mg/m^3		Toxicity data revised.
3066	Triacetin; (Triacetyl glycerin)	102-76-1	12.5	35	250	500	mg/m^3		
3067	Triamiphos	1031-47-6	2	6	10	10	mg/m^3		
3068	Triaryl sulfonium chloride salts	109037-76-5	1.25	4	25	125	mg/m^3	**T-0, P-1**	
3069	Triazine-1,3,5(2H,4H,6H)-triethanol, s-; (Onyxide 200)	4719-04-4	3	10	60	350	mg/m^3		
3070	Triazofos; (Triazophos)	24017-47-8	0.5	1.5	2.8	125	mg/m^3		
3071	Tribenzylamine	620-40-6	10	30	50	250	mg/m^3		Not found in databases, ChemFinder MF, MW, pchem data.
3072	Tributyl citrate	77-94-1	1	3	20	75	ppm		
3073	Tributyl phosphate	126-73-8	0.459	2	15	30	ppm		
3074	Tributyl(2,4-dichlorobenzyl)phosphonium chloride	115-78-6	0.75	2	15	75	mg/m^3		
3075	Tributyl-1-butanaminium iodide, N,N,N-; (Tetrabutylammonium iodide)	311-28-4	7.5	25	150	500	mg/m^3		
3076	Tributylphosphine	998-40-3	0.35	1	7.5	40	ppm		
3077	Tributyltetradecylphosphonium chloride	81741-28-8	10	30	50	250	mg/m^3		MW and MF from ChemFinder. Used PNOS default.
3078	Trichloramine; (Nitrogen chloride)	10025-85-1	0.125	0.35	2.5	25	ppm		
3079	**Trichloro(dichlorophenyl) silane; (Dichlorophenyltrichlorosilane)**	**27137-85-5**	0.2	**0.60**	**7.3**	**33**	ppm		**Interim AEGL-1, -2, -3**
3080	Trichloro-2,2,2-trifluoroethane, 1,1,1-	354-58-5	250	500	500	500	mg/m^3		
3081	Trichloroacetaldehyde hydrate; (Chloral hydrate)	302-17-0	7.5	25	125	125	mg/m^3	**T-0, P-1, P-2, P-3**	

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.
Bold green italics: 10% LEL ≤ PAC < 50% LEL; bold underlined pink italics: 50% LEL ≤ PAC < 100% LEL; bold double underlined red italcs: PAC ≥ LEL.

Table 2: Protective Action Criteria (PAC) Rev 25
Based on applicable AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
3082	Trichloroacetaldehyde; (Chloral)	75-87-6	2.5	7.5	50	250	mg/m^3		
3083	Trichloroacetic acid	76-03-9	1	1	2	25	ppm		
3084	Trichloroacetyl chloride	76-02-8	0.03	0.075	0.606	6	ppm		
3085	Trichlorobenzene, 1,2,3-	87-61-6	5	15	25	500	mg/m^3	**T-0, P-2**	
3086	Trichlorobenzene, 1,2,4-	120-82-1	0.25	0.75	5	40	ppm	**T-0, P-1**	
3087	**Trichloroethane, 1,1,1-; (Methyl chloroform)**	**71-55-6**	230	**230**	**600**	**4200**	ppm		**Interim AEGL-1, -2, -3**
3088	Trichloroethane, 1,1,2-	79-00-5	10	10	15	100	ppm		
3089	Trichloroethanol, 2,2,2-	115-20-8	12.5	35	250	250	mg/m^3		
3090	**Trichloroethylene**	**79-01-6**	10	**130**	**450**	**3800**	ppm		**Interim AEGL-1, -2, -3** PEL-TWA suppressed.
3091	**Trichloroethylsilane; (Ethyl trichlorosilane)**	**115-21-9**	0.2	**0.60**	**7.3**	**33**	ppm		**Interim AEGL-1, -2, -3**
3092	Trichlorofluoromethane; (Fluorotrichloromethane; Freon 11)	75-69-4	1,000	1,000	1,500	2,000	ppm		
3093	Trichlorohydroxyethyl dimethylphosphonate; ((2,2,2-Trichloro-1-hydroxyethyl)dimethylphosphonate; Trichlorphon)	52-68-6	1	3	13	500	mg/m^3	**P-2**	
3094	Trichloroisocyanuric acid	87-90-1	30	75	500	500	mg/m^3		Added.
3095	Trichloronaphthalene	1321-65-9	5	15	25	50	mg/m^3		
3096	Trichloronate; (Ethyl trichlorophenylethylphosphonothioate)	327-98-0	2	6	10	300	mg/m^3		
3097	Trichlorophenol, 2,3,6-	933-75-5	1.25	4	25	125	mg/m^3		
3098	Trichlorophenol, 2,4,5-	95-95-4	20	60	350	350	mg/m^3	**T-0, P-1**	
3099	Trichlorophenol, 2,4,6-	88-06-2	35	100	350	350	mg/m^3	**T-0, P-1**	
3100	Trichlorophenoxy)propionic acid, 2-(2,4,5-; (Silvex)	93-72-1	10	35	200	250	mg/m^3	**P-1**	

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Table 2: Protective Action Criteria (PAC) Rev 25
Based on applicable AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
3101	Trichlorophenoxyacetic acid, 2,4,5-; (2,4,5-T)	93-76-5	10	30	50	250	mg/m^3		
3102	**Trichlorophenylsilane**	**98-13-5**	0.2	**0.60**	**7.3**	**33**	ppm		**Interim AEGL-1, -2, -3**
3103	Trichloropropane, 1,2,3-	96-18-4	10	30	50	100	ppm	**P-1, P-2**	PEL-TWA not used, and "Y" changed to "N."
3104	**Trichlorosilane**	**10025-78-2**	0.2	**0.60**	**7.3**	**33**	ppm		**Interim AEGL-1, -2, -3** **ERPG-1, -2, -3**
3105	Trichlorotrifluoroethane; (Freon 113; CFC113)	76-13-1	1,000	1,250	1,500	2,000	ppm		
3106	Tridecane	629-50-5	0.015	0.05	0.35	6	ppm		
3107	Tridodecylamine; (Alamine 304; N,N-didodecyl-1-dodecanamine)	102-87-4	7.5	25	150	500	mg/m^3		TSCA listed. No toxicity data found. HHR = 2 in MSDS.
3108	Triethanolamine; (Trihydroxytriethylamine)	102-71-6	5	5	20	500	mg/m^3		
3109	**Triethoxysilane**	**998-30-1**	0.05	**0.5**	**4**	**10**	ppm		**ERPG-1, -2, -3**
3110	Triethoxyvinylsilane	78-08-0	15	50	350	1,500	ppm		
3111	Triethyl phosphate; (TEP)	78-40-0	75	200	500	500	mg/m^3		
3112	Triethyl phosphite	122-52-1	2	6	40	200	ppm		
3113	Triethylaluminum	97-93-8	8.46	8.46	50	250	mg/m^3		
3114	Triethylamine	121-44-8	1	3	3	200	ppm		PEL-TWA not used.
3115	Triethylammonium bicarbonate buffer ph 8.5	15715-58-9	10	30	50	250	mg/m^3		Not found in databases.
3116	Triethylbenzene (mixed isomers)	25340-18-5	6	15	125	600	ppm		
3117	Triethylene glycol	112-27-6	300	500	500	500	mg/m^3		
3118	Triethylene glycol monomethyl ether	112-35-6	40	125	500	500	mg/m^3		
3119	Triethylenetetramine	112-24-3	1	7.5	60	150	ppm		
3120	Triethylethanaminium hydroxide, N,N,N-; (Tetraethyl ammonium hydroxide)	77-98-5	0.35	1	7.5	35	mg/m^3		

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Table 2: Protective Action Criteria (PAC) Rev 25
Based on applicable AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
3121	Triethyloxonium tetrafluoroborate	368-39-8	6.25	18.8	31.3	500	mg/m^3		TSCA listed, no toxicity or pchem data found, MSDS HHR = 3.
3122	Triethylphosphorothioate; (Tepto)	126-68-1	0.15	0.5	3.5	15	ppm		
3123	Trifluoro-1-(2-thienyl)-1,3-butanedione, 4,4,4-, boron difluoride	22502-27-8	0.75	2.5	15	75	mg/m^3		
3124	Trifluoro-4-nitro-m-cresol, alpha,alpha,alpha-; (4-Nitro-3-(trifluoromethyl)phenol)	88-30-2	0.6	1.5	12.5	60	mg/m^3		
3125	Trifluoroacetaldehyde hydrate; (2,2,2-Trifluoro-1,1-ethanediol)	421-53-4	2.5	7.5	50	250	mg/m^3		
3126	Trifluoroacetic acid anhydride	407-25-0	4.61	13.8	23	461	mg/m^3		
3127	Trifluoroacetic acid; (Trifluoroethanoic acid)	76-05-1	10	15	15	15	ppm		
3128	Trifluoroacetyl chloride	354-32-5	1.07	6	50	249	ppm	**P-1**	
3129	Trifluoroethanol, 2,2,2-; (Trifluoroethyl alcohol)	75-89-8	0.3	7.5	60	60	ppm		
3130	Trifluoromethanesulfonic acid; (Triflic acid)	1493-13-6	0.1	0.3	2	10	ppm		No toxicity data found.
3131	Trifluoromethanesulfonic anhydride	358-23-6	1.5	5	35	150	mg/m^3		Not found in databases. HHR = 3 from MSDS.
3132	Trifluoromethyl iodide; (Iodotrifluoromethane)	2314-97-8	2,000	4,000	4,000	4,000	ppm		
3133	Trifluoromethyl)benzenamine, 3-(; (m-Aminobenzal fluoride)	98-16-8	0.75	2.5	4.4	150	mg/m^3		
3134	Trifluralin; (2,6-Dinitro-N,N-dipropyl-4-(trifluoromethyl) benzenamine)	1582-09-8	0.025	0.075	0.6	300	mg/m^3		
3135	Triisobutylaluminum	100-99-2	14.7	100	500	500	mg/m^3	**P-1**	
3136	Trimethoxy(3,3,3-trifluoropropyl)silane	429-60-7	9.57	28.7	50	500	mg/m^3		Name changed. TSCA listed, no toxicity or pchem data found.
3137	Trimethoxyboroxine	102-24-9	20	60	400	500	mg/m^3		
3138	**Trimethoxysilane**	**2487-90-3**	0.05	**0.5**	**0.83**	**2.5**	ppm		**Interim AEGL-2, -3** **ERPG-1, -2, -3**
3139	Trimethoxysilyl)-1-propanamine, 3-(	13822-56-5	10	30	50	250	mg/m^3		TSCA, H&N listed, no toxicity data. Assumed nonvolatile.
3140	Trimethoxysilyl-1-propanethiol, 3-; (3-Mercaptopropyltrimethoxysilane)	4420-74-0	3	7.5	60	300	mg/m^3		Rat LD50 = 730uL/kg.

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Table 2: Protective Action Criteria (PAC) Rev 25
Based on applicable AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
3141	Trimethoxysilylpropyl methacrylate, 3-; (Silane A-174)	2530-85-0	6	15	125	500	mg/m^3		
3142	Trimethoxysilylpropyl) ethylenediamine, N-(3-	1760-24-3	30	75	500	500	mg/m^3		
3143	Trimethoxyvinylsilane; (Vinyltrimethoxysilane; Silane, trimethoxyvinyl)	2768-02-7	150	400	1,250	1,250	ppm		
3144	Trimethyl borate	121-43-7	6	15	125	600	ppm		
3145	Trimethyl phosphate; (TMP)	512-56-1	5	15	60	60	ppm		
3146	Trimethyl phosphite	121-45-9	2	60	500	750	ppm		
3147	Trimethyl-1,3-pentanediol monoisobutyrate, 2,2,4-; (Texanol)	25265-77-4	25	75	500	500	mg/m^3		
3148	Trimethyl-1-pentene, 2,4,4-; (Diisobutylene)	107-39-1	75	225	375	***1,500***	ppm		Iso-octane not listed as synonym for this CASRN. No toxicity data found. See LEL formatting note.
3149	Trimethyl-2,5,8,11-tetraoxatetradecan-13-ol, 4,7,10-	20324-34-9	10	30	50	250	mg/m^3		
3150	Trimethyl-2-hexene, 4,4,5-	55702-61-9	10	30	50	250	mg/m^3		
3151	Trimethyl-2-oxepanone (mixed isomers); (Hexanoic acid, 6-hydroxytrimethyl, epsilon-lactone)	64047-30-9	30	75	500	500	mg/m^3		Not in ChemBank, toxicity data ex SAX. No pchem data found.
3152	Trimethylacetic acid; (Pivalic acid)	75-98-9	3.5	10	75	400	mg/m^3		
3153	Trimethylacetyl chloride; (Pivaloyl chloride)	3282-30-2	0.1	0.3	2	10	ppm		No toxicity data found.
3154	Trimethylaluminum	75-24-1	5.34	16	26.7	125	mg/m^3		No toxicity data found, used Al alkyl compounds. MSDS says very corrosive, but use of "Y" would give all Ts equal to 2 mg/m^3.
3155	**Trimethylamine**	**75-50-3**	5	**8.0**	**120**	**380**	ppm		**Interim AEGL-1, -2, -3** **ERPG-2, -3** Odor-based ERPG-1 ignored.
3156	Trimethylaniline, 2,4,6-	88-05-1	0.125	0.4	2.9	40	mg/m^3		
3157	**Trimethylbenzene, 1,2,3-**	**526-73-8**	25	**140**	**360**	***1,500***	ppm		**Interim AEGL-1, -2** See LEL formatting note.
3158	**Trimethylbenzene, 1,2,4-; (Pseudocumene)**	**95-63-6**	25	**140**	**360**	***1,500***	ppm		**Interim AEGL-1, -2** See LEL formatting note.
3159	Trimethylbicyclo(3.1.1)-2-hept-2-ene, 2,6,6-; (alpha-Pinene)	80-56-8	1.50E-04	5.00E-04	0.0035	0.015	mg/m^3		

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Based on applicable AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
3160	**Trimethylchlorosilane**	**75-77-4**	0.6	**1.8**	**32**	**130**	ppm		**Interim AEGL-1, -2, -3**
3161	Trimethyldecane, 2,2,8-	62238-01-1	46.5	46.5	239	***1,250***	ppm		NIOSH limits for Alkanes used. See LEL formatting note.
3162	Trimethyldecane, 2,5,6-	62108-23-0	46.5	46.5	239	***1,250***	ppm		NIOSH limits for Alkanes used. See LEL formatting note.
3163	Trimethyldecane, 3,3,4-	62338-09-4	46.5	46.5	239	***1,250***	ppm		CASRN changed back to 62338-09-4, per ExPub. NIOSH limits for Alkanes used. See LEL formatting note.
3164	Trimethylene oxide; (Oxetane)	503-30-0	0.1	0.3	2	75	mg/m^3		SAX BP = 480C differs from other sources.
3165	Trimethylgallium	1445-79-0	1.5	5	35	150	mg/m^3		TSCA, HC&P listed. No toxicity data found.
3166	Trimethylhexane, 2,2,5-	3522-94-9	66.8	66.8	343	***1,500***	ppm		NIOSH limits for Alkanes used. See LEL formatting note.
3167	Trimethyl-N'-(hydroxyethyl)-1,3-propanediamine, N,N,N'-; (2-((3-(Dimethylamino)propyl)methylamino)ethanol)	82136-26-3	10	30	50	250	mg/m^3		Name changed, synonym inserted. Not found in databases.
3168	Trimethyloctane	98060-52-7	54.8	54.8	282	***1,000***	ppm		NIOSH limits for Alkanes used. See LEL formatting note.
3169	Trimethyloctane, 2,2,6-	62016-28-8	54.8	54.8	282	***1,250***	ppm		NIOSH limits for Alkanes used. See LEL formatting note.
3170	Trimethyloctane, 2,3,7-	62016-34-6	54.8	54.8	282	***1,250***	ppm		NIOSH limits for Alkanes used. See LEL formatting note.
3171	Trimethyloctane, 2,4,6-	62016-37-9	54.8	54.8	282	***1,250***	ppm		NIOSH limits for Alkanes used. See LEL formatting note.
3172	Trimethyloctane, 2,6,6-	54166-32-4	54.8	54.8	282	***1,250***	ppm		NIOSH limits for Alkanes used. See LEL formatting note.
3173	Trimethylolpropane ethoxylate	50586-59-9	10	30	50	250	mg/m^3		TSCA listed, no toxicity data. No useful data in MSDS assumed nonvolatile.
3174	Trimethylolpropane phosphite	824-11-3	0.125	0.35	2.5	6	mg/m^3		
3175	Trimethylphosphine	594-09-2	0.1	0.3	2	10	ppm		
3176	Trimethylpyridine, 2,4,6-	108-75-8	1.5	5	35	150	ppm		
3177	Trimethylsilanol	1066-40-6	0.05	0.5	2	5	ppm		**SAR**
3178	Trimethylsilylmethyllithium	1822-00-0	1.5	5	35	150	mg/m^3		No toxicity data found, used HHR = 3.
3179	Trimethyltin chloride; (Chlorotrimethylstannane)	1066-45-1	0.168	0.336	20	42	mg/m^3		

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
3180	Trimethyltriheptylamine, 6,6',6"-; (Triisooctylamine)	2757-28-0	6	15	125	500	mg/m^3	**T-0**	
3181	Tri-n-butylamine	102-82-9	0.02	0.06	0.4	7.5	ppm		
3182	Trinitrobenzene, 1,3,5-	99-35-4	1	3.5	25	125	mg/m^3	**T-0, P-1, P-2**	
3183	Trinitrochlorobenzene; (Picryl chloride)	28260-61-9	10	30	50	250	mg/m^3		
3184	Trinitrophenylmethylnitramine, 2,4,6-; (Tetryl)	479-45-8	1.5	7.5	50	500	mg/m^3		
3185	Trinitrotoluene, 2,4,6-	118-96-7	0.1	1.25	7.5	500	mg/m^3	**T-0, P-1, P-2**	PEL-TWA >> TLV-TWA ignored.
3186	Tri-n-octylphosphine oxide; (Trioctylphophine oxide)	78-50-2	10	30	50	250	mg/m^3		
3187	Trioctylamine; (N,N-Dioctyl-1-octanamine)	1116-76-3	4	12.5	75	400	mg/m^3		
3188	Trioctylphosphine; (Tri-n-octylphosphine)	4731-53-7	0.5	1.5	10	50	mg/m^3		No pchem data found. Mouse LC50 > 1600 mg/m^3.
3189	Tri-o-tolyl phosphate; (Triorthocresyl phosphate)	78-30-8	0.1	0.3	0.6	40	ppm		
3190	Tripentaerythritol	78-24-0	10	30	50	250	mg/m^3		No toxicity data found.
3191	Triphenyl phosphate	115-86-6	3	9	500	500	mg/m^3		
3192	Triphenyl phosphite	101-02-0	7.5	25	150	200	mg/m^3		
3193	Triphenylborane	960-71-4	7.5	25	150	500	mg/m^3		Severe irritant, but no toxicity data found.
3194	Triphenylethoxysilane	1516-80-9	10	30	50	250	mg/m^3		TSCA, HC&P listed, no toxicity data.
3195	Triphenylolmethane triglycidyl ether	66072-38-6	10	30	50	250	mg/m^3		TSCA listed, no toxicity data, no MSDS, assumed solid or nonvolatile liquid.
3196	Triphenylphosphine	603-35-0	1.5	5	40	500	mg/m^3		
3197	Triphenyltin chloride; (Chlorotriphenylstannane)	639-58-7	0.325	0.65	20	81.2	mg/m^3		
3198	Tripotassium (2-hydroxyethyl)ethylenediaminetriacetate; (Tripotassium HEDTA)	62029-50-9	0.35	1	7.5	40	ppm		TSCA listed. Synonym changed. **SAR**
3199	Tripotassium arsenate	13464-36-3	0.0342	0.103	0.171	17.1	mg/m^3		REL-C << PEL-TWA ignored.

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
3200	Tripropyl phosphate; (TPP)	513-08-6	6	15	125	500	mg/m^3	Added.	Added. No toxicity data found. Rat toxicity based on similar phosphates.
3201	Tripropylamine	102-69-2	3.5	10	75	350	ppm		
3202	Tripropylene glycol methyl ether	25498-49-1	12.5	40	250	500	mg/m^3		Pchem data ex CHRIS.
3203	Tripropylene glycol monomethyl ether; (1-(2-(2-Methoxy-1-methylethoxy)-1-methylethoxy)-2-propanol)	20324-33-8	0.004	0.0125	0.1	150	ppm		
3204	Tripropylene glycol; (((1-Methyl-1,2-ethanediyl)bis(oxy))bispropanol)	24800-44-0	1.5	5	35	150	ppm		CASRN changed from 1638-16-0. Both CASRNs in TSCA and ChemFinder.
3205	Tris hydrochloride; (Trizma hydrochloride; Tris(hydroxymethyl) aminomethane hydrochloride)	1185-53-1	7.5	25	150	500	mg/m^3		CASRN changed to 1185-53-1 (TSCA, ChemFinder and Sigma-Aldrich). Not found in databases, data ex MSDS.
3206	Tris((hydroxymethyl)methylamino)propane-1-sulphonic acid, 3-	29915-38-6	10	30	50	250	mg/m^3		TSCA listed, no toxicity data. ChemFinder MW, MP.
3207	Tris(2-aminoethyl)amine	4097-89-6	2	6	40	100	mg/m^3		No pchem data found.
3208	Tris(2-chloroethyl) phosphate; (2-Chloroethanol phosphate)	115-96-8	7.5	20	150	500	mg/m^3		
3209	**Tris(2-chloroethyl)amine; (Nitrogen mustard-3)**	**555-77-1**	1.00E-03	0.003	**0.022**	**0.37**	mg/m^3		**Interim AEGL-2, -3**
3210	Tris(dimethylaminomethyl)phenol, 2,4,6-	90-72-2	5	15	100	500	mg/m^3		
3211	Tris-hydroxymethylaminomethane; (THAM)	77-86-1	25	75	500	500	mg/m^3		
3212	Trisodium arsenate	13464-38-5	0.0277	0.0832	0.139	13.9	mg/m^3		MW and MF vary in sources. REL-C << PEL-TWA ignored.
3213	Trisodium arsenate, heptahydrate; (Arsenic(V) acid, trisodium salt, heptahydrate (1:3:7))	64070-83-3	0.0446	0.134	0.223	22.3	mg/m^3		REL-C << PEL-TWA ignored.
3214	Trisodium citrate	68-04-2	0.6	1.5	12.5	60	ppm		HSDB and TSCA have different MF.
3215	Trisodium N-hydroxyethylethylenediaminetriacetate; (Trisodium N-(2-hydroxyethyl)ethylenediaminetriacetate)	139-89-9	4	12.5	75	400	mg/m^3		Name corrected. HSDB, HC&P MW = 344.2, but RTECS, H&N MW =347.27. **SAR**
3216	Triton X-100; (Poly(oxyethylene)-p-tert-octylphenyl ether)	9002-93-1	15	40	300	500	mg/m^3		
3217	Trypan blue	72-57-1	0.025	0.075	0.5	500	mg/m^3	**T-0, P-1, P-2**	
3218	Trypsin; (Parenzyme; Chymotrypsin inhibitor)	9002-07-7	0.025	0.075	0.6	30	mg/m^3		

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Table 2: Protective Action Criteria (PAC) Rev 25
Based on applicable AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
3219	Trypsinogen	9002-08-8	7.5	25	150	500	mg/m^3		Not found in databases, MSDS HHR = 2.
3220	Tungsten	7440-33-7	5	10	10	500	mg/m^3		
3221	Tungsten boride	12007-09-9	5.29	10.6	26.5	125	mg/m^3		TSCA, HC&P listed, no toxicity data.
3222	Tungsten carbide	12070-12-1	5.33	10.7	26.6	125	mg/m^3	**P-2, P-3**	No toxicity data found. Changed "Y" to "N."
3223	Tungsten hexafluoride	7783-82-6	1.62	4.86	8.1	40	mg/m^3	**P-2, P-3**	Changed "Y" to "N."
3224	Tungsten trioxide; (Tungsten(VI) oxide)	1314-35-8	6.31	12.6	400	400	mg/m^3		
3225	Tungsten(IV) chloride; (Tungsten tetrachloride)	13470-13-8	1.77	5.31	8.86	40	mg/m^3	**T-0, P-1, P-2, P-3**	No toxicity or pchem data found.
3226	Tungsten(IV) oxide	12036-22-5	5.87	11.7	30	150	mg/m^3	**P-2, P-3**	
3227	Tungstic acid	7783-03-1	6.8	13.6	35	150	mg/m^3	**P-2, P-3**	No toxicity data found. Insoluble W compound.
3228	Tungstosilicic acid	11130-20-4	6.52	13	32.6	150	mg/m^3	**P-2, P-3**	TSCA listed, no pchem data.
3229	Turpentine	8006-64-2	20	20	20	***800***	ppm		PEL-TWA suppressed. See LEL formatting note.
3230	Undecane	1120-21-4	0.35	1	6	35	ppm		
3231	Undecanone, 2-; (Methyl nonyl ketone)	112-12-9	0.2	0.6	4	300	ppm		
3232	Uranine; (Fluorescein sodium)	518-47-8	12.5	40	250	500	mg/m^3		
3233	Uranium	7440-61-1	0.25	0.6	2	10	mg/m^3	**T-0**	
3234	**Uranium hexafluoride; (Uranium fluoride)**	**7783-81-5**	0.0739	**3.6**	**9.6**	**36**	mg/m^3		**Final AEGL-1, -2, -3** **ERPG-1, -2, -3**
3235	Uranium hydride; (Uranium(III) hydride)	13598-56-6	0.253	0.608	2	10.1	mg/m^3	**T-0**	
3236	**Uranium oxide; (Triuranium octaoxide)**	**1344-59-8**	0.295	0.707	**10**	**50**	mg/m^3	**T-0**	**ERPG-2, -3**
3237	Uranium telluride	12138-37-3	0.518	1.24	4	20.7	mg/m^3	**T-0**	Name and CASRN changed. Insoluble U compound.
3238	Uranium telluride A	12138-37-3a	0.429	1.03	3.5	17.1	mg/m^3	**T-0**	Treated as insoluble.

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Based on applicable AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
3239	**Uranium trioxide**	**1344-58-7**	0.3	0.5	**0.5**	**3**	mg/m^3	**T-0**	**ERPG-2, -3** added.
3240	**Uranium(IV) oxide; (Uranium dioxide)**	**1344-57-6**	0.284	0.681	**10**	**30**	mg/m^3	**T-0**	**ERPG-2, -3**
3241	Uranium: insoluble compounds	z-0083	0.25	0.6	2	10	mg/m^3	**T-0**	Insoluble U compound.
3242	Uranium: soluble compounds	z-0084	0.05	0.6	2	10	mg/m^3		
3243	Uranyl acetate; (Uranium oxyacetate)	541-09-3	0.0815	0.978	3	16.3	mg/m^3		
3244	Uranyl fluoride; (Uranium oxyfluoride)	13536-84-0	0.0647	0.776	2.5	12.9	mg/m^3		
3245	Uranyl hydroxide	13470-18-3a	0.0639	0.766	2.5	12.8	mg/m^3		
3246	Uranyl hydroxide (liquids)	13470-18-3b	0.0639	0.766	2.5	12.8	mg/m^3		
3247	Uranyl nitrate (solid); (Bis(nitrato-O,O')dioxouranium)	10102-06-4	0.0828	0.993	3	16.6	mg/m^3		
3248	Uranyl nitrate (yellow salt)	36478-76-9	0.0828	0.993	0.993	16.6	mg/m^3		
3249	Uranyl nitrate hexahydrate	13520-83-7	0.105	1.27	1.27	21.1	mg/m^3		
3250	Uranyl nitrite (liquids)	z-0087	0.076	0.913	3	15.2	mg/m^3		
3251	Urea	57-13-6	10	10	15	500	mg/m^3		
3252	Urea peroxide; (Urea hydrogen peroxide)	124-43-6	1.5	5	35	150	mg/m^3		Added.
3253	Urea), N,N''-(4-methyl-1,3-phenylene)bis(N',N'-dimethyl-	17526-94-2	1.5	5	35	150	mg/m^3		Added. TSCA listed, no toxicity data found. Based on MSDS NFPA HHR = 2.
3254	Urethane; (Carbamic acid, ethyl ester; Ethyl carbamate)	51-79-6	500	500	500	500	mg/m^3		
3255	Valeric acid	109-52-4	30	75	500	500	mg/m^3		
3256	Valinomycin	2001-95-8	0.5	1.5	2.5	2.5	mg/m^3		
3257	Vanadium	7440-62-2	0.05	0.075	0.5	35	mg/m^3	**P-1**	
3258	Vanadium pentoxide; (Vanadium(V) oxide)	1314-62-1	0.05	1	7	35	mg/m^3	**P-1, P-2**	

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Table 2: Protective Action Criteria (PAC) Rev 25
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No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
3259	Vanadium sulfate	16785-81-2	0.2	0.6	4.46	312	mg/m^3	**T-0, P-1, P-2, P-3**	
3260	Vanadium tetrachloride	7632-51-1	0.0075	0.025	0.189	132	mg/m^3	**T-0, P-1, P-2, P-3**	
3261	Vanadium trioxide	1314-34-7	0.35	1	7.36	51.5	mg/m^3	**T-0, P-1, P-2**	
3262	Vanadium(II) sulfate heptahydrate	36907-42-3	0.0125	0.04	0.268	188	mg/m^3	**T-0, P-1, P-2, P-3**	
3263	Vanadium(III) sulfate	13701-70-7	0.0075	0.025	0.191	134	mg/m^3	**T-0, P-1, P-2, P-3**	
3264	Vanadium, trichlorooxo	7727-18-6	0.0075	0.025	0.17	119	ppm	**T-0, P-1, P-2, P-3**	
3265	Vanadyl sulfate pentahydrate; (Vanadium(IV) sulfate oxide hydrate)	12439-96-2	0.1	0.35	2.48	174	mg/m^3	**T-0, P-1, P-2, P-3**	
3266	Vanadyl sulfate; (Oxysulfatovanadium)	27774-13-6	0.075	0.2	1.6	112	mg/m^3	**T-0, P-1, P-2, P-3**	
3267	Vanilin	121-33-5	10	30	125	500	mg/m^3	**T-0, P-1**	
3268	Vegetable oil	68956-68-3	15	45	75	500	mg/m^3	**P-1, P-2**	
3269	Veratraldehyde	120-14-9	7.5	25	150	500	mg/m^3		
3270	Vermiculite, exfoliated	1318-00-9	5	5	5	25	mg/m^3	**T-0, P-1, P-2, P-3**	No toxicity data found
3271	Vinyl 2-chloroethylsulfide; (2-Chloroethylthio ethene)	81142-02-1	0.15	0.4	3	15	mg/m^3		Not found in databases.
3272	**Vinyl acetate**	**108-05-4**	6.7	**6.7**	**180**	**610**	ppm		**Interim AEGL-1, -2, -3** **ERPG-1, -2, -3**
3273	Vinyl acetate-vinyl chloride copolymer; (Acetic acid, vinyl ester, polymer with chloroethylene)	9003-22-9	35	100	500	500	mg/m^3		
3274	Vinyl acrylic resin; (Vinyl acetate, polymer with n-butyl acrylate)	25067-01-0	10	30	50	250	mg/m^3		
3275	Vinyl bromide	593-60-2	0.5	1.5	40	50	ppm	**T-0, P-1**	
3276	**Vinyl chloride**	**75-01-4**	1	**250**	**1200**	***4800***	ppm		**Interim AEGL-1, -2, -3** See LEL formatting note.
3277	Vinyl ethyl ether; (Ethoxy ethene)	109-92-2	15	50	350	***1,500***	ppm		See LEL formatting note.
3278	Vinyl fluoride	75-02-5	1	7.5	50	***75,000***	ppm	**P-1, P-2**	See LEL formatting note.

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No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
3279	Vinyl sulfoxide	1115-15-7	0.75	2.5	15	75	mg/m^3	Added.	Added.
3280	Vinyl terminated dimethylsiloxane-diphenylsiloxane copolymer	68951-96-2	75	250	500	500	mg/m^3		TSCA listed, no toxicity data found, HHR = 0 in MSDS.
3281	**Vinyl trichlorosilane**	**75-94-5**	0.2	**0.60**	**7.3**	**33**	ppm		**Interim AEGL-1, -2, -3** **ERPG-1, -2, -3**
3282	Vinyl-2-pyrrolidinone, 1-	88-12-0	0.05	5	40	75	ppm		
3283	Vinylbenzylchloride; (4-Vinylbenzyl chloride)	1592-20-7	1.5	5	35	150	mg/m^3		TSCA listed, no toxicity data found, MSDS HHR = 3.
3284	Vinylcyclohexene, 4-; (Cyclohexenylethylene)	100-40-3	0.1	0.3	***3,500***	***3,500***	ppm		Added. See LEL formatting note.
3285	Vinylformamide, N-	13162-05-5	5	15	100	500	mg/m^3		TSCA lisyed. MSDS pchem and toxicity information used.
3286	**Vinylidene chloride; (1,1-Dichloroethylene)**	**75-35-4**	5	75	**500**	**1000**	ppm		**ERPG-2, -3**
3287	Vinylidene fluoride; (1,1-Difluoroethene)	75-38-7	500	1,500	2,500	***50,000***	ppm	**P-1, P-2, P-3**	See LEL formatting note. REL-C << TLV-TWA suppressed.
3288	Vinylmagnesium bromide	1826-67-1	1.5	5	35	150	mg/m^3		TSCA listed, no toxicity data found. MSDS HHR - 3.
3289	Vinylpyrrolidone/vinyl acetate copolymer	25086-89-9	100	250	250	250	mg/m^3		Rat oral LD50 > 650 mg/kg.
3290	Virginia refrigeration oil 150 and 300; (Mineral oil, petroleum distillates, hydrotreated (mild) heavy naphthenic)	64742-52-5	15	40	300	500	mg/m^3		Rat oral LD50 > 5 g/kg.
3291	Warfarin	81-81-2	0.1	0.3	20	100	mg/m^3		
3292	Warfarin sodium	129-06-6	1.5	5	9	9	mg/m^3		
3293	Xenon	7440-63-3	65,000	65,000	2.30E+05	4.00E+05	ppm		Simple asphyxiant.
3294	Xylene, m-	108-38-3	100	150	200	900	ppm		
3295	Xylene, o-	95-47-6	100	150	200	***900***	ppm		See LEL formatting note.
3296	Xylene, p-	106-42-3	100	150	200	900	ppm		
3297	**Xylenes**	**1330-20-7**	100	**130**	***920***	***2500***	ppm		**Interim AEGL-1, -2, -3** See LEL formatting note.
3298	Xylenol orange tetrasodium salt	3618-43-7	10	30	50	250	mg/m^3		

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
3299	Xylidine	1300-73-8	0.5	1.5	2.5	50	ppm	**T-0, P-1, P-2**	PEL-TWA = 10 x TLV-TWA suppressed.
3300	Xylidine, 2,6-	87-62-7	1.25	4	25	75	ppm	**T-0, P-1, P-2, P-3**	
3301	Xylidine, o-; (2,3-Xylidine)	87-59-2	0.75	2	15	75	ppm	**T-0, P-1, P-2, P-3**	
3302	Xylylene dichloride	28347-13-9	0.4	1.25	2	75	mg/m^3		
3303	Yeast extract	8013-01-2	15	50	400	500	mg/m^3		
3304	Ytterbium fluoride	13760-80-0	10.1	10.1	10.1	500	mg/m^3	**P-3**	Added Fluoride IDLH.
3305	Ytterbium oxide	1314-37-0	10	30	50	250	mg/m^3		
3306	Yttrium	7440-65-5	1	3	5	500	mg/m^3		
3307	Yttrium chloride, hexahydrate	10025-94-2	3.41	10.2	500	500	mg/m^3		
3308	Yttrium oxide	11130-29-3	1.18	3.54	150	500	mg/m^3		"Y" changed to "N" for mild irritant.
3309	Yttrium trioxide	1314-36-9	1.27	3.81	40	500	mg/m^3		
3310	Zeolites, CaA	68989-20-8	7.5	25	150	500	mg/m^3		MSDS HHR = 2. Molecular xieve information deleted.
3311	Zeolites, KA	68989-21-9	10	30	50	250	mg/m^3		MSDS CASRN = 308080-99-1, no useful data found. Molecular xieve information deleted.
3312	Zeolites, NaA	68989-22-0	6	15	125	500	mg/m^3		Molecular xieve information deleted.
3313	Zeolites, NaX	68989-23-1	10	30	50	250	mg/m^3		TSCA listed, no toxicity or pchem data found. Molecular xieve information deleted.
3314	Zinc	7440-66-6	2	6	40	500	mg/m^3	**T-0, P-1, P-2, P-3**	
3315	Zinc acetate	557-34-6	0.3	0.75	6	500	mg/m^3		
3316	Zinc acetate dihydrate	5970-45-6	25	75	350	350	mg/m^3		
3317	Zinc bromide	7699-45-8	2	6	40	200	mg/m^3	**T-0, P-1, P-2**	
3318	Zinc carbonate	3486-35-9	5	15	100	500	mg/m^3		

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
3319	Zinc carbonate hydroxide	5263-02-5	10	30	50	250	mg/m^3		Not found in databases.
3320	Zinc chloride	7646-85-7	1	2	50	50	mg/m^3		
3321	Zinc cyanide	557-21-1	22.6	22.6	22.6	113	mg/m^3		
3322	Zinc fluoride	7783-49-5	6.8	20	125	500	mg/m^3	**P-1, P-2, P-3**	
3323	Zinc hydroxide	20427-58-1	0.6	0.6	1.5	60	mg/m^3		**SAR**
3324	Zinc nitrate	7779-88-6	6	15	125	500	mg/m^3	**T-0, P-1, P-2, P-3**	HSDB toxicity data added.
3325	Zinc nitrate hexahydrate	10196-18-6	5	15	100	500	mg/m^3		
3326	Zinc nitrite	10102-02-0	0.035	0.075	0.6	60	mg/m^3		**SAR**
3327	Zinc oxide	1314-13-2	2	10	15	500	mg/m^3		PEL-TWA suppressed.
3328	Zinc perchlorate	13637-61-1	10	30	50	250	mg/m^3		TSCA listed, no toxicity or pchem data found.
3329	Zinc phenolsulfonate; (Zinc p-hydroxybenzenesulfonate)	127-82-2	0.6	2	15	500	mg/m^3		
3330	Zinc phosphate (3:2)	7779-90-0	2	6	50	250	mg/m^3		SAX, RTECS, TSCA all have H3 in MF, but this would give MW = 392.13.
3331	**Zinc phosphide**	**1314-84-7**	0.05	0.15	**1.0**	**1.8**	ppm		**Final AEGL-2, -3**
3332	Zinc stearate	557-05-1	15	30	50	150	mg/m^3		
3333	Zinc sulfate	7733-02-0	0.15	0.5	3.5	500	mg/m^3		
3334	Zinc sulfate heptahydrate (1:1:7)	7446-20-0	100	200	200	200	mg/m^3		
3335	Zirconium	7440-67-7	5	10	10	50	mg/m^3		Removed "and compounds (as Zr)" from name.
3336	Zirconium boride	12045-64-6	6.19	12.4	61.9	61.9	mg/m^3		
3337	Zirconium carbide	12070-14-3	6.32	12.6	12.6	63.2	mg/m^3		No toxicity data found.
3338	Zirconium chloride	10026-11-6	12.8	25.5	25.5	128	mg/m^3		

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
3339	Zirconium chloride oxide octahydrate	13520-92-8	17.7	35.3	35.3	177	mg/m^3		
3340	Zirconium fluoride	7783-64-4	22	66	110	500	mg/m^3	**T-0, P-1, P-2, P-3**	
3341	Zirconium hydride	7704-99-6	5.11	10.2	51.1	51.1	mg/m^3		
3342	Zirconium hydroxide	14475-63-9	8.73	17.5	17.5	87.3	mg/m^3		
3343	Zirconium nitrate	13746-89-9	18.6	37.2	37.2	186	mg/m^3		
3344	Zirconium nitride	25658-42-8	5.77	11.5	11.5	57.7	mg/m^3		TSCA, HC&P listed, no toxicity data.
3345	Zirconium nitrite	z-0088	7.52	15	15	75.2	mg/m^3		
3346	Zirconium oxide	1314-23-4	6.75	13.5	13.5	67.5	mg/m^3		
3347	Zirconium oxynitrate hydrate	14985-18-3	13.7	27.4	27.4	137	mg/m^3		
3348	Zirconium phosphide	12037-80-8	8.4	16.8	16.8	84	mg/m^3		HC&P listed. TSCA CASRN = 12037-72-8, MW, MF differ.
3349	Zirconium potassium fluoride; (Potassium fluorozirconate)	16923-95-8	37.3	112	186	500	mg/m^3	**P-1, P-2**	
3350	Zirconium silane	z-0089	8.08	16.2	16.2	80.8	mg/m^3		
3351	Zirconium silicate; (Zirconium silicon oxide; Zircon))	10101-52-7	10.3	20.5	51.3	103	mg/m^3		HC&P has "zirconium orthosilicate," MW = 183.308, MF = Zr SiO4.
3352	Zirconium sulfate tetrahydrate	7446-31-3	19.5	39	39	195	mg/m^3		CASRN changed from 14644-61-2 per LLNL. Both CHRIS and ChemFinder list under removed CASRN.
3353	Zirconyl chloride; (Zirconium oxychloride)	7699-43-6	9.76	19.5	97.6	97.6	mg/m^3		
3354	Zirconyl nitrate; (Bis(nitrato-O)oxozirconium)	13826-66-9	12.7	25.3	25.3	127	mg/m^3		
3355	Zonyl fsn fluorosurfactant	65545-80-4	60	150	500	500	mg/m^3		
3356	zzAcrylic latex	z-0090	10	30	50	250	mg/m^3		
3357	zzAlumination 301	z-0091	10	30	50	250	mg/m^3		
3358	zzHydranal coulomat / AG	z-0092	10	30	50	250	mg/m^3		

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.
Bold green italics: 10% LEL ≤ PAC < 50% LEL; bold underlined pink italics: 50% LEL ≤ PAC < 100% LEL; bold double underlined red italcs: PAC ≥ LEL.

Table 2: Protective Action Criteria (PAC) Rev 25
Based on applicable AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs					Values changed from PAC Rev 24: TEEL-0=T-0, PAC-1=P-1, PAC-2=P-2, PAC-3=P-3	Comments
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS		
3359	zzHydrocarbon polymer	z-0093	10	30	50	250	mg/m^3		
3360	zzHydrocount(R), LSC cocktail	z-0094	10	30	50	250	mg/m^3		
3361	zzIconol(R)	z-0095	10	30	50	250	mg/m^3		
3362	zzMachine coolant 1	z-0096	10	30	50	250	mg/m^3		
3363	zzMonophase- S	z-0097	10	30	50	250	mg/m^3		
3364	zzMornar	z-0098	10	30	50	250	mg/m^3		
3365	zzOpti-Fluor; (Alkyl benzene blend, 3% tributylphophate)	z-0099	7.5	25	37.5	250	mg/m^3		Mixture ex MSDS used.
3366	zzPaint solvent; (Ligroine)	z-0100	350	350	500	500	mg/m^3	**T-0, P-1, P-2, P-3**	PNOS deleted, NIOSH limits for VM&P Naphtha added.
3367	zzPropanol (-2) aluminum derivative	z-0101	2	6	10	50	mg/m^3		
3368	zzScintillation cocktail, Ultima Gold XR	z-0102	0.15	0.5	3	15	mg/m^3		Used MSDS mixture components.
3369	zzSicapent	z-0103	10	30	50	250	mg/m^3		
3370	zzSynthetic resins	z-0104	10	30	50	250	mg/m^3		
3371	zzTotal sequestrant reagent #5	z-0105	35	40	100	500	mg/m^3		Used MSDS mixture components.
3372	zzTrifluoroacetyl)-N,0,0,0-tetrakis((TMS)norepinephrine, N-(	z-0106	0.04	0.125	0.75	7.5	mg/m^3		Toxicity data for "Norepinephrine," CASRN = 51-41-2, used.
3373	zzWaste oil	z-0107	10	30	50	250	mg/m^3		

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.
Bold green italics: 10% LEL ≤ PAC < 50% LEL; bold underlined pink italics: 50% LEL ≤ PAC < 100% LEL; bold double underlined red italcs: PAC ≥ LEL.