Table 2: Protective Action Criteria (PAC) Rev 24 based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

PAC Rev 24 – August 2008

Table 2 presents an alphabetical listing of the chemicals in the PAC data set and provides the Chemical Abstract Service Registry Numbers (CASRNs), PAC data, and technical comments focusing on changes in the PAC values since the previous version of the PAC/TEEL data set (Rev 23).

PAC values are provided for TEEL-0, PAC-1, PAC-2, and PAC-3.

Values are given in parts per million (ppm) for gases and volatile liquids and in milligrams per cubic meter (mg/m^3) for particulate materials (aerosols) and nonvolatile liquids.

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 common name of the chemical.
CASRN	The Chemical Abstract Service Registry Number for this chemical.
TEEL-0	This is the threshold concentration below which most people will experience no appreciable risk of 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).
Comments and changes from PAC Rev 23	Technical comments by the developers of the PAC data set. Indicates changes from the previous version of the PAC/TEEL data set. A “T” in the comment field, typically stands for “TEEL.” The term “SAR,” in red font, stands for “Structure Activity Relationships.” This column will be enhanced in the near future to improve the clarity and completeness of its information.

Chemicals for which **AEGLs** are available have their chemical name, CASRN, and actual values displayed in **bolded and larger** font. Chemicals for which **ERPGs** are available, but no AEGLs, have their chemical name, CASRN, and actual values displayed in **bolded** font. Chemicals for which TEELs are available, but no AEGLs or ERPGs, have their chemical name and CASRN displayed using a regular font.

In the PAC columns of Table 2:

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

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

Table 2, other PAC Tables, introductory/explanatory material (including a glossary of acronyms and abbreviations), definitions of PAC values, and alternative methods of displaying PAC information are available electronically at:
http://www.hss.energy.gov/HealthSafety/WSHP/chem_safety/teel.html.

Of particular interest might be Table 4 which presents all values in mass per unit volume (mg/m^3) and information on the source of the PAC values.

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

Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1	Acacia; (Gum Arabic)	9000-01-5	200	500	500	500	mg/m3	
2	Acenaphthene	83-32-9	0.4	1.25	7.5	250	mg/m3	
3	Acenaphthylene	208-96-8	0.06	0.2	1.5	500	mg/m3	T-2 changed.
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/m3	
6	Acetanilide	103-84-4	0.4	1	7.5	50	mg/m3	
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/m3	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/m3	
11	Acetic acid, manganese(2+) salt, tetrahydrate	6156-78-1	0.892	2.68	22.3	500	mg/m3	
12	Acetic acid, manganese(II) salt (2:1)	638-38-0	0.63	9.45	15.7	500	mg/m3	
13	**Acetic Anhydride**	**108-24-7**	0.5	**0.5**	**15**	**100**	ppm	**New ERPG-1, -2, -3.** All Ts changed.
14	**Acetone**	**67-64-1**	200	**200**	***3200***	***5700***	ppm	**Interim AEGL-1, -2, -3.** See LEL Formattinng Note.
15	Acetone thiosemicarbazide	1752-30-3	20	60	100	100	mg/m3	
16	Acetone-d6	666-52-4	200	200	***3200***	***5700***	ppm	Pchem data ex ChemFinder. See LEL Formattinng Note.

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 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
17	**Acetonitrile**	**75-05-8**	13	**13**	**320**	**670**	ppm	**Interim AEGL-1, -2, -3.** All Ts changed.
18	Acetonitrile-d3	2206-26-0	40	60	60	500	ppm	ChemFinder MW and MF. Used Acetonitrile (75-05-8) data.
19	Acetophenone	98-86-2	10	30	50	350	mg/m3	
20	Acetoxytriphenylstannane	900-95-8	0.345	0.689	20	50	mg/m3	
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/m3	
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/m3	
25	Acetylaminofluorene, 2-	53-96-3	0.25	0.75	6	30	mg/m3	
26	Acetylaminofluorenone, 2-	3096-50-2	0.75	2.5	15	75	mg/m3	
27	Acetylene	74-86-2	***2500***	***2500***	***2500***	***6000***	ppm	See LEL Formattinng 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	0.3	7.5	60	60	mg/m3	
30	Acrylamide, N,N'-methylenebisacrylamide copolymer	25034-58-6	10	30	50	250	mg/m3	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/m3	

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
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; (Phenarsine chloride)**	**578-94-9**	0.016	**0.016**	**2.6**	**6.40**	mg/m3	**New Interim AEGL-1, -2, -3.** Added.
36	Adipic acid	124-04-9	5	5	5	125	mg/m3	
37	Adipic acid-TDI	68609-57-4	10	30	50	250	mg/m3	Added. TSCA listed, no toxicity or pchem data found. See Adipic acid, 124-04-9
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/m3	No pchem data found, assumed density = 1.00.
40	Agar	9002-18-0	500	500	500	500	mg/m3	
41	Agarose, type VII (low gelling temperature)	9012-36-6	10	30	50	250	mg/m3	
42	Alamine 336	68814-95-9	20	60	500	500	mg/m3	No pchem data found.
43	Albumin (bovine)	9048-46-8	150	500	500	500	mg/m3	RTECS, MERCK list Albumin (human) rather than "bovine"
44	Alcohol oxidase	9073-63-6	10	30	50	250	mg/m3	TSCA listed, no toxicity or pchem data found.
45	Alcohols, C6-C12 (N.O.S.)	68603-15-6	10	30	50	250	mg/m3	
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/m3	T-1 changed.

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
47	Aldrithiol-2: (2,2'-Dithiodipyridene)	2127-03-9	10	30	50	250	mg/m3	Synonym, MW, MF, MP in ChemFinder.
48	Aliquat 336; (Adogen 464; Quaternary ammonium compounds, tri(C8-10)-alkylmethyl-, chlorides)	63393-96-4	30	75	500	500	mg/m3	
49	Alizarin; (1,2-Dihydroxyanthraquinone; Turkey red oil)	72-48-0	1.25	4	25	125	mg/m3	
50	Alizarine Red S, Monohydrate; (Sodium alizarin-3-sulfonate)	130-22-3	0.6	1.5	12.5	60	mg/m3	
51	Alkanes, C4-12-	68333-81-3	300	385	385	***2000***	ppm	Based on octane, MW estimated. See LEL Formattinng Note.
52	Alkenyl dimethylethyl ammonium bromide; (Aliphatic hydrocarbon)	z-0108	2	6	40	200	mg/m3	
53	Alkyl benzenes (C8-C9)	z-0109	10	30	50	250	mg/m3	
54	Alkyl dimethylbenzyl ammonium chloride; (Benzalkonium chloride)	8001-54-5	7.5	20	100	100	mg/m3	
55	Alkylamines	63231-48-1	10	30	50	250	mg/m3	
56	Alkylbenzene (C10-C16)	68648-87-3	10	30	50	500	mg/m3	
57	Allene; (1,2-Propadiene)	463-49-0	40	125	750	***4000***	ppm	See LEL Formattinng Note.
58	**Allyl alcohol**	**107-18-6**	2	**2.1**	**4.2**	**20**	ppm	**Interim AEGL-1, -2, -3.**
59	Allyl Bromide; (3-Bromopropene)	106-95-6	4	12.5	75	400	ppm	
60	**Allyl chloride**	**107-05-1**	1	**2.8**	**54**	**140**	ppm	**New interim AEGL-1, -2, -3. ERPG-1, -2, -3.** T-1, T-2, T-3 changed.
61	**Allyl chlorocarbonate**	**2937-50-0**	0.035	0.1	**0.70**	**2.1**	ppm	**New interim AEGL-2, -3.** All Ts changed.

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No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
62	Allyl isothiocyanate; (Mustard oil)	57-06-7	0.35	1	2.5	12.5	ppm	Ignored rat 14 day oral TDlo.
63	**Allylamine**	**107-11-9**	0.125	**0.42**	**3.3**	**18**	ppm	**New final AEGL-1, -2, -3.**
64	Allylmagnesium bromide	1730-25-2	10	30	50	250	mg/m3	Not found in databases.
65	**Allyltrichlorosilane**	**107-37-9**	0.2	**0.60**	**7.3**	**33**	ppm	**New interim AEGL-1, -2, -3.** Added.
66	Alpha,alpha,4-trimethyl-3-cyclohexene-1-methanol, (S)-; (alpha-Terpineol)	10482-56-1	125	350	500	500	mg/m3	HSDB & TSCA listed, SAX, RTECS, TSCA CASRN = 98-55-5, RTECS & HC&P CASRN = 2438-12-2
67	Alpha-hydroxybenzeneacetic acid, (+-)-; (DL-mandelic acid)	611-72-3	15	50	350	500	mg/m3	TSCA listed, no toxicity data. Used normal Mandelic acid (CAS 90-64-2) data.
68	Aluminon	569-58-4	0.0004	0.00125	0.0075	500	mg/m3	T-1 changed.
69	Aluminum	7429-90-5	15	15	15	75	mg/m3	T-1, T-2, T-3 changed.
70	Aluminum acetate, basic	7360-44-3	4.45	13.3	22.2	100	mg/m3	TSCA listed, TSCA MF, MW calculated, no toxicity data. All Ts changed.
71	Aluminum carbide	1299-86-1	1.33	4	6.67	35	mg/m3	All Ts changed.
72	Aluminum chloride	7446-70-0	4.94	7.5	60	500	mg/m3	T-0, T-1 changed.
73	Aluminum chloride hexahydrate	7784-13-6	8.95	25	150	500	mg/m3	T-0 changed.
74	Aluminum fluoride	7784-18-1	3.11	3.11	7.5	40	mg/m3	T-0, T-1 changed.
75	Aluminum grey LB; (Acid black 60)	12218-95-0	8.44	25.3	42.2	422	mg/m3	Name changed. MF ex TSCA, no Al in MF.
76	Aluminum hexafluorosilicate	17099-70-6	3.51	10.5	17.6	351	mg/m3	Added.

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
77	Aluminum hydroxide	21645-51-2	1	3	125	125	mg/m3	T-0, T-1 changed.
78	Aluminum oxide hydrate	1333-84-2	15	15	15	75	mg/m3	Found MF in NIH Chemical Information SIS, MW calculated for x = 2(H2.O). T-1, T-2, T-3 changed.
79	Aluminum oxide; (Alumina)	1344-28-1	1.5	1.5	15	25	mg/m3	T-0, T-1 changed.
80	Aluminum phosphate; (Phosphoric acid, aluminum salt (1:1), solution)	7784-30-7	4.52	13.56	500	500	mg/m3	T-0, T-1 changed.
81	**Aluminum phosphide**	**20859-73-8**	0.907	0.907	**2.0**	**3.6**	ppm	**New interim AEGL-2, -3.** All Ts changed.
82	Aluminum potassium sulfate	10043-67-1	9.57	28.7	47.8	100	mg/m3	T-0, T-1, T-2 changed.
83	Aluminum potassium sulfate, dodecahydrate	7784-24-9	17.6	52.7	125	500	mg/m3	T-0, T-1, T-2 changed.
84	Aluminum sulfate	10043-01-3	6.34	19	31.7	500	mg/m3	T-0, T-1, T-2 changed.
85	Aluminum tris(dihydrogen phosphate); (Phosphoric acid, aluminum salt (3:1)	13530-50-2	11.9	35.7	60	300	mg/m3	TSCA listed, no toxicity data. All Ts changed.
86	Aluminum yellow 4A; (Acid yellow 99)	10343-58-5	4.77	28.6	50	239	mg/m3	MF ex TSCA, no Al in MF. T-1, T-2 changed.
87	Aluminum(III) isopropylate	555-31-7	7.57	22.7	37.9	500	mg/m3	SAX, RTECS, H&N, ChemFinder MF used, differs from HSDB and TSCA. T-0, T-1, T-2 changed.
88	Aluminum(III) nitrate (1:3)	13473-90-0	7.89	23.67	350	500	mg/m3	T-0, T-1 changed.
89	Aluminum(III) nitrate nonahydrate (1:3:9)	7784-27-2	13.9	20	150	500	mg/m3	T-0, T-1 changed.
90	Aluminum(III) silicate (2:1); (Kyanite; Oil-dri)	1302-76-7	3	9.01	75	400	mg/m3	T-0, T-1 changed.

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No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
91	Amberlite IR-120(PLUS) ion-exchange resin	78922-04-0	10	30	50	200	mg/m3	ChemFinder listed, no toxicity data found, used Amberlite-LA-1, CASRN = 12642-13-6. MSDS has CASRN 39389-20-3
92	Amberlite IR-120plus ion-exchange resin, sodium form; (Cation exchange resin)	9002-23-7	7.5	25	150	500	mg/m3	Not found in databases, but several RTECS Amberlite IR-120 compound listings. MSDS vp and HHR. ChemFinder listed.
93	Amberlite IRA-400(Cl); (Amberlite IRA-400, ion-exchange resin)	9002-24-8	10	30	50	250	mg/m3	Not found in databases. MSDS pchem data.
94	Amberlite IRA-400(CL); (Ion exchange resin)	122560-63-8	10	30	50	250	mg/m3	Not found in databases. MSDS has no useful information.
95	Amberlite MB-1 ion-exchange resin; (Amberlite MB-150)	100915-96-6	10	30	50	200	mg/m3	Not listed, used Amberlite-LA-1, CASRN = 12642-13-6; synonym from MSDS name.
96	Amberlite XAD-16, -7, -4 resin	104219-63-8	10	30	50	200	mg/m3	Not listed, used Amberlite-LA-1, CASRN = 12642-13-6. Assumed to be mixture of resins, each with different MSDSs and CASRNs.
97	Amberlite XAD-2 resin, purified	9060-05-3	10	30	50	200	mg/m3	Not listed, used Amberlite-LA-1, CASRN = 12642-13-6
98	Amberlite XAD-7HP	37380-43-1	10	30	50	200	mg/m3	No toxicity data found, used Amberlite-LA-1, CASRN = 12642-13-6. ChemFinder SG. "Amberlite" deleted.
99	Amberlyst 15 ion-exchange resin	9037-24-5	10	30	50	250	mg/m3	Not found in databases; MSDS has CASRN 39389-20-3
100	Amino-1,3-naphthalenedisulfonic acid, 7-	86-65-7	3.5	10	75	400	mg/m3	
101	Amino-1-propanol, 3-	156-87-6	0.015	0.04	0.3	500	mg/m3	
102	Amino-2-(hydroxymethyl)-1,3-propanediol, 2-, acetate salt; (Trizma acetate)	6850-28-8	25	75	500	500	mg/m3	TSCA listed, MSDS toxicity data.

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No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
103	Amino-2-methyl-2-propanol, 1-	2854-16-2	10	30	200	500	mg/m3	
104	Amino-4,6-dinitrotoluene, 2-	35572-78-2	6	15	125	500	mg/m3	
105	Aminoacetaldehyde diethyl acetal; (2,2-diethoxyethylamine)	645-36-3	7.5	25	150	500	mg/m3	TSCA listed, no toxicity data found, HHR assumed = 2.
106	Aminoacetaldehyde dimethyl acetal; (2,2-dimethoxyethylamine)	22483-09-6	10	30	50	250	mg/m3	
107	Aminoanthraquinone, 2-	117-79-3	7.5	25	150	500	mg/m3	
108	Aminobenzoic acid, p-	150-13-0	5	15	100	500	mg/m3	
109	Aminobutyl)diethoxymethylsilane, (4-	3037-72-7	2	6	45	45	mg/m3	
110	Aminodiphenyl, p-	92-67-1	0.5	1.5	10	200	mg/m3	
111	Aminoethoxy)ethanol, 2(2-	929-06-6	12.5	35	250	500	mg/m3	Added.
112	Aminoethyl)diphenylborinic acid, o-(2-	524-95-8	0.4	1.25	10	50	mg/m3	
113	Aminoethylethanolamine	111-41-1	12.5	35	250	500	mg/m3	Added.
114	Aminoethylpiperazine, N-	140-31-8	2.5	7.5	50	500	mg/m3	
115	Aminoheptane, 3-; (3-Heptylamine)	28292-42-4	0.06	0.15	1.25	6	ppm	
116	Aminoiminomethyl)urea sulfate(2:1), (	591-01-5	10	30	50	250	mg/m3	TSCA listed, no toxicity data.
117	Aminophenol, 2-; (Aminophenol, o-)	95-55-6	0.5	1.5	10	500	mg/m3	
118	Aminophenol, m-	591-27-5	1	3	20	125	mg/m3	

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 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
119	Aminopropiophenone, 4-	70-69-9	1	3.5	5.6	75	mg/m3	
120	Aminopropylmethyldiethoxysilane, 3-	3179-76-8	15	50	400	500	mg/m3	MSDS pchem data.
121	Aminopropyltriehoxysilane; (3-(Triethoxysilyl)-1-propanamine)	919-30-2	6	15	125	500	mg/m3	HC&P has BP = 119 C. Duplicate deleted.
122	Aminopterin; (Aminopteridine)	54-62-6	5	15	25	25	mg/m3	
123	Aminopyrazine	5049-61-6	0.5	1.5	2.5	5	ppm	**SAR**
124	Aminopyridine, 4-; (4-Pyridinamine)	504-24-5	4	12.5	20	20	mg/m3	
125	Amiton oxalate	3734-97-2	0.6	1.5	3	3	mg/m3	
126	Amiton; (O,O-Diethyl-S-(2-diethylaminoethyl) thiophosphate)	78-53-5	0.6	2	3.3	3.3	mg/m3	
127	Amitrole	61-82-5	0.2	0.6	125	500	mg/m3	
128	**Ammonia**	**7664-41-7**	25	**30**	**160**	**1100**	ppm	**New Final AEGL-1, -2, -3.**
129	Ammonia-d3	13550-49-7	10	29	177	883	ppm	Not found in databases. MW and MF ex ChemFinder.
130	Ammonium acetate	631-61-8	2.5	7.5	50	250	mg/m3	
131	Ammonium aluminum fluoride; (Triammonium hexafluoroaluminate)	7784-19-2	4.28	4.28	4.28	15	mg/m3	
132	Ammonium benzoate	1863-63-4	3.5	10	75	350	mg/m3	
133	Ammonium bicarbonate	1066-33-7	2	6	40	200	mg/m3	
134	Ammonium bisulfate; (Ammonium hydrogen sulfate)	7803-63-6	0.025	0.075	0.5	2.5	mg/m3	

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 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
135	Ammonium bisulfite; (Ammonium hydrogen sulfite)	10192-30-0	10	10	10	10	mg/m3	
136	Ammonium bromide	12124-97-9	10	35	200	500	mg/m3	
137	Ammonium carbamate; (Carbamic acid, ammonium salt)	1111-78-0	0.3	1	6	35	mg/m3	
138	Ammonium carbonate	506-87-6	0.75	2.5	15	75	mg/m3	
139	Ammonium chloride	12125-02-9	10	20	500	500	mg/m3	
140	Ammonium chromate	7788-98-9	0.0146	0.438	7.5	43.9	mg/m3	
141	Ammonium citrate	7632-50-0	10	10	30	150	mg/m3	
142	Ammonium citrate tribasic	3458-72-8	10	30	50	250	mg/m3	Not found in databases. MSDS pchem data.
143	Ammonium citrate, dibasic	3012-65-5	10	10	10	10	mg/m3	
144	Ammonium dichromate	7789-09-5	0.0121	0.363	7.5	36.4	mg/m3	
145	Ammonium dihydrogen phosphate; (Monoammonium phosphate)	7722-76-1	15	50	350	500	mg/m3	
146	Ammonium ferrous sulfate hexahydrate	7783-85-9	3.19	9.56	15.9	500	mg/m3	
147	Ammonium fluoborate	13826-83-0	3.45	3.45	6	20	mg/m3	
148	Ammonium fluoride	12125-01-8	4.88	4.88	4.88	12.5	mg/m3	
149	Ammonium formate	540-69-2	10	30	50	500	mg/m3	
150	Ammonium hexachlorohydrate (III)	z-0001	10	30	50	250	mg/m3	

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.
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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
151	Ammonium hexafluorosilicate; (Ammonium silicofluoride)	16919-19-0	3.91	11.7	20	30	mg/m3	
152	Ammonium hydrogen fluoride; (Ammonium bifluoride)	1341-49-7	3.75	3.75	3.75	3.75	mg/m3	
153	Ammonium hydrogen oxalate hemihydrate	37541-72-3	7.5	25	150	500	mg/m3	Not found in databases. ChemFinder MF, MW. MSDS HHR = 2.
154	Ammonium hydroxide	1336-21-6	2	6	40	100	ppm	
155	Ammonium iodide	12027-06-4	4	12.5	75	400	mg/m3	
156	Ammonium lactate	515-98-0	10	35	200	500	mg/m3	CASRN changed from 52003-58-4. Toxicity data added, T-1, T-2, T-3 changed.
157	Ammonium lignin sulfonate	8061-53-8	10	30	50	250	mg/m3	
158	Ammonium molybdate(VI) tetrahydrate	12054-85-2	60.7	60.7	60.7	150	mg/m3	
159	Ammonium molybdate; (Diammonium molybdate)	13106-76-8	10.2	30.7	51.1	500	mg/m3	SAX rat LD50, RTECS LD lo and TDlo. T-3 changed.
160	Ammonium molybdophosphate	12026-66-3	8.15	24.4	40.7	200	mg/m3	
161	Ammonium nickel sulfate	15699-18-0	4.89	4.89	5	48.9	mg/m3	
162	Ammonium nitrate	6484-52-2	10	10	10	500	mg/m3	
163	Ammonium oxalate monohydrate	5972-73-6	1.5	4	30	150	mg/m3	This CASRN in H&N, with MW = 125.08
164	Ammonium oxalate; (Diammonium oxalate monohydrate)	6009-70-7	1.5	4	30	150	mg/m3	
165	Ammonium oxalate; (Ethanedioic acid, diammonium salt)	1113-38-8	0.15	0.5	4	20	mg/m3	

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
166	Ammonium pentaborate	12007-89-5	10	30	50	250	mg/m3	
167	Ammonium perchlorate	7790-98-9	5	15	100	500	mg/m3	
168	Ammonium permanganate	13446-10-1	0.2	3	5	500	mg/m3	
169	Ammonium persulfate	7727-54-0	0.1	0.3	20	100	mg/m3	
170	Ammonium phosphate dibasic	7783-28-0	10	30	50	250	mg/m3	
171	Ammonium picrate	131-74-8	10	30	50	250	mg/m3	
172	Ammonium polyacrylate	9003-03-6	10	30	50	250	mg/m3	TSCA listed, no toxicity data, no MSDS, assumed solid.
173	Ammonium sulfamate	7773-06-0	10	30	50	500	mg/m3	
174	Ammonium sulfate	7783-20-2	40	125	500	500	mg/m3	
175	Ammonium sulfide	12135-76-1	3.5	10	15	15	ppm	
176	Ammonium sulfite	10196-04-0	10	10	10	10	mg/m3	Soluble compound.
177	Ammonium sulfite monohydrate	7783-11-1	10	30	50	250	mg/m3	HC&P listed, no toxicity data found
178	Ammonium tartrate	14307-43-8	10	10	10	10	mg/m3	No useful data found.
179	Ammonium tartrate; (Diammonium tartrate)	3164-29-2	1.5	5	40	200	mg/m3	
180	Ammonium thiocyanate	1762-95-4	12.5	35	200	200	mg/m3	
181	Ammonium thiosulfate; (Ammonium hyposulfite)	7783-18-8	10	30	50	500	mg/m3	

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
182	Ammonium tungstate(VI)	11120-25-5	1.38	4.14	6.9	6.9	mg/m3	TSCA, HC&P listed, no toxicity data.
183	Ammonium vanadate; (Ammonium vanadium oxide; Ammonium metavanadate)	7803-55-6	0.0322	0.0965	0.322	3.5	mg/m3	
184	Ammonium, hexadecyltrimethyl-, bromide; (Hexadecyltrimethylammonium bromide)	57-09-0	0.035	0.1	0.75	150	mg/m3	
185	Ammonium, tetraethyl, bromide; (Tetraethyl ammonium bromide)	71-91-0	1.25	4	30	40	mg/m3	
186	Ammonium, tetramethyl, bromide; (Tetramethylammonium bromide)	64-20-0	0.2	0.6	4	20	mg/m3	
187	Amosite	12172-73-5	0.005	0.05	40	200	mg/m3	
188	Amphetamine; (Benzedrine)	300-62-9	4	12.5	20	20	mg/m3	
189	Amyl acetate	628-63-7	100	100	100	1000	ppm	SAX toxicity data not in RTECS.
190	Amyl alcohol; (1-Pentanol)	71-41-0	100	100	100	100	ppm	
191	Amyl methyl ether, tert-; (TAME)	994-05-8	20	125	125	125	ppm	
192	Amylamine, n-; (1-Pentylamine)	110-58-7	0.3	0.75	6	30	mg/m3	
193	**Amyltrichlorosilane; (Pentyltrichlorosilane)**	**107-72-2**	0.2	**0.60**	**7.3**	**33**	ppm	**New interim AEGL-1, -2, -3.** Added.
194	Anhydrone; (Magnesium perchlorate)	10034-81-8	6	15	125	500	mg/m3	
195	**Aniline**	**62-53-3**	5	**8.0**	**12**	**20**	ppm	**Final AEGL-1, -2, -3.**
196	Anisidine, o-	90-04-0	0.5	1.5	2.5	50	mg/m3	

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
197	Anisidine, p-	104-94-9	0.5	1.5	2.5	50	mg/m3	
198	Anisole; (Anisole anhydrous; Methoxybenzene)	100-66-3	4	12.5	75	400	mg/m3	
199	Anthracene	120-12-7	1.5	4	30	150	mg/m3	
200	Anthracenedisulfonic acid, 4,8-diamino-9,10-dihydro-1,5-dihydroxy-9,10-dioxo, disodium salt, 2,6-; (Acid Blue 45; Alizarine Blue)	2861-02-1	12.5	35	250	500	mg/m3	
201	Anthranilic acid	118-92-3	4	12.5	100	500	mg/m3	T-2 changed.
202	Anthraquinone	84-65-1	10	30	50	500	mg/m3	
203	Antimony	7440-36-0	0.5	1.5	20	50	mg/m3	T-2 changed.
204	Antimony oxide	1309-64-4	0.599	1.8	4	59.9	mg/m3	
205	Antimony pentachloride	7647-18-9	1.23	3.68	6.14	123	mg/m3	
206	Antimony pentafluoride	7783-70-2	0.89	0.89	2.7	89	mg/m3	
207	Antimony pentasulfide	1315-04-4	0.829	2.49	4.15	82.9	mg/m3	
208	Antimony potassium tartrate trihydrate	28300-74-5	1.31	3.92	6.53	131	mg/m3	
209	Antimony trichloride	10025-91-9	0.937	0.937	0.937	93.7	mg/m3	
210	Antimony trifluoride	7783-56-4	0.734	0.734	4	73.4	mg/m3	
211	Antimycin A	1397-94-0	0.35	1	1.8	12.5	mg/m3	

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
212	Antioxidant G-16 (most toxic antiox)	61373-87-3	10	30	50	125	mg/m3	
213	Aqua regia (75% hydrochloric + 25% nitric acid)	8007-56-5	0.85	1.6	18	94.5	ppm	0.75 HCl+0.25 HNO3, MW from H&N.
214	Arginine, L-	74-79-3	10	30	50	250	mg/m3	No useful data found.
215	Argon	7440-37-1a	65000	65000	230000	400000	ppm	Simple asphyxiant.
216	Argon, cryogenic	7440-37-1b	65000	65000	230000	400000	ppm	As Ar, simple asphyxiant.
217	Aromatic hydrocarbon solvents; (High flash naphtha distillates; Solvent naphtha (petroleum), light aromatic)	64742-95-6	500	750	750	750	ppm	
218	Aromatic isocyanate mixture "SWD 305A"	z-0111	1.25	4	20	125	mg/m3	Used 52% 9016-87-9, 5% 26447-40-5, 42% 101-68-8, 1% 103-71-9. All Ts changed.
219	Arsenic	7440-38-2	0.01	0.35	2	350	mg/m3	REL-C suppressed. T-0, T-1, T-2 changed.
220	Arsenic acid	1327-52-2	0.0189	0.0568	3	55	mg/m3	
221	Arsenic acid; (o-arsenic acid)	7778-39-4	0.0189	0.4	3	9.5	mg/m3	
222	Arsenic pentoxide	1303-28-2	0.0153	1	7.7	7.7	mg/m3	
223	**Arsenic trioxide**	**1327-53-3**	0.0132	0.4	**3.0**	**9.1**	mg/m3	**New interim AEGL-2, -3.** All Ts changed.
224	Arsenious acid	13464-58-9	0.0168	0.2	1.4	8.41	mg/m3	
225	Arsenous trichloride	7784-34-1	0.0242	0.0726	1.35	12.1	ppm	
226	**Arsine**	**7784-42-1**	0.05	0.05	**0.17**	**0.50**	ppm	**Final AEGL-2, -3.**

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
227	Asbestos	1332-21-4	0.005	0.075	0.5	2.5	mg/m3	T-1 changed.
228	Asbestos (Chrysotile)	12001-29-5	0.005	7.5	50	250	mg/m3	T-1 changed.
229	Ascaridole	512-85-6	0.75	2.5	20	75	mg/m3	
230	Ascarite; (Asbestos, 1332-21-4)	81133-20-2	0.005	0.5	0.5	2.5	mg/m3	Assumed not to be "Ascarite-2", which does not contain asbestos.
231	Ascorbic acid	50-81-7	60	200	500	500	mg/m3	
232	Asphalt; (Bitumen)	8052-42-4a	0.5	0.75	5	25	mg/m3	See also Petroleum asphalt, SAX PCR500
233	Auramine; (4.4'-(Imidocarbonyl)bis(N,N-dimethylamine) monohydrochloride)	2465-27-2	2.5	7.5	60	60	mg/m3	Synonym changed. PNOC deleted, MW corrected to RTECS and HSDB.
234	Azaserine; (L-Serine, diazoacetate (ester))	115-02-6	0.0125	0.04	0.25	75	mg/m3	
235	Azinphos ethyl; (Ethyl guthion)	2642-71-9	0.75	2	3.9	150	mg/m3	
236	Azinphos methyl; (GuthionR)	86-50-0	0.2	0.6	0.7	10	mg/m3	
237	Aziridine homopolymer; (Ethylenimine homopolyer; Poly(ethyleneimine)	9002-98-6	5	15	100	500	mg/m3	Lowest MW compound selected.
238	Azobis(2-methylpropionitrile), 2,2'-	78-67-1	7.5	25	150	300	mg/m3	
239	Azodicarbamide; (Azodicarbonamide)	123-77-3	40	125	200	200	mg/m3	
240	Bacto peptone	51142-18-8	10	30	50	250	mg/m3	Not in databases, no useful data in MSDS.
241	Barbituric acid	67-52-7	2	6	40	200	mg/m3	
242	Barium	7440-39-3	0.5	1.5	50	250	mg/m3	

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Table 2: Protective Action Criteria (PAC) Rev 24
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No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
243	Barium acetate; (Barium acetate anhydrous)	543-80-6	0.93	2.79	4.65	93	mg/m3	
244	Barium carbonate	513-77-9	0.3	0.75	6	500	mg/m3	
245	Barium chloride	10361-37-2	0.5	1.5	15	50	mg/m3	
246	Barium chloride dihydrate	10326-27-9	0.889	2.67	4.45	88.9	mg/m3	
247	Barium chromate	10294-40-3	0.0246	0.737	1.25	73.7	mg/m3	
248	Barium cyanide	542-62-1	0.69	2.07	3.5	69	mg/m3	
249	Barium dioxide; (Barium peroxide)	1304-29-6	0.617	0.617	1.5	7.5	mg/m3	
250	Barium diphenylamine sulfonate	6211-24-1	2.31	6.92	11.5	231	mg/m3	MF, MW, MP ex ChemFinder.
251	Barium fluoride	7787-32-8	0.638	1.92	15	100	mg/m3	
252	Barium hydrogen phosphate; (Barium phosphate dibasic)	10048-98-3	0.849	2.55	4.25	20	mg/m3	
253	Barium hydroxide	17194-00-2	0.624	1.87	3.12	62.4	mg/m3	T-3 changed.
254	Barium hydroxide octahydrate	12230-71-6	1.15	3	20	115	mg/m3	Loses water of crystallization at 78 C.
255	Barium metaborate	13701-59-2	10	30	200	500	mg/m3	
256	Barium nitrate	10022-31-8	0.952	2.5	20	95.2	mg/m3	T-2 changed.
257	Barium nitrite	13465-94-6	0.835	2.5	4.17	20	mg/m3	
258	Barium oxide	1304-28-5	0.558	1.67	2.79	55.8	mg/m3	Moisture sensitive.

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Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
259	Barium permanganate	7787-36-2	1.37	20.5	34.1	34.1	mg/m3	Sparingly sol in H2O,
260	Barium phosphate	13466-20-1	0.788	2.36	4	20	mg/m3	
261	Barium stearate	6865-35-6	10	30	200	500	mg/m3	SAX & TSCA have H72, MW=706.4; RTECS & H&N have H70, MW=704.40.
262	Barium sulfate	7727-43-7	15	30	350	500	mg/m3	
263	Basic Green 4; (Aizen malachite green)	569-64-2	0.35	1	6	35	mg/m3	
264	Basic Red 1; (Rhodamine 6G extra base)	989-38-8	0.025	0.075	0.6	2.5	mg/m3	
265	Bathophenanthroline	1662-01-7	75	250	500	500	mg/m3	MSDS states non-hazardous, therefore assume HHR = 1.
266	Bentonite; (Clay absorbent)	1302-78-9	10	30	50	50	mg/m3	
267	Benz(e)acephenanthrylene; (Benzo(b)fluoroanthene)	205-99-2	0.2	0.6	4	20	mg/m3	
268	Benzal chloride	98-87-3	0.4	1.25	2.3	500	mg/m3	
269	Benzaldehyde	100-52-7	2	4	4	150	ppm	
270	Benzamide	55-21-0	3	10	60	350	mg/m3	
271	Benzenamine, sulfate (2:1)	542-16-5	10	30	50	250	mg/m3	TSCA listed, no toxicity data found.
272	**Benzene**	**71-43-2**	1	**52**	**800**	***4000***	ppm	**Interim AEGL-1, -2, -3.** See LEL Formattinng Note.
273	Benzene hexachloride; (Hexachlorocyclohexane, mixed isomers)	608-73-1	0.15	0.5	4	300	mg/m3	Toxicity data updated, T-3 changed.
274	Benzene, 1-(chloromethyl)-4-nitro-; (p-Nitrobenzyl chloride)	100-14-1	5	15	28	125	mg/m3	

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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 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
275	Benzenearsonic acid; (Phenylarsonic acid)	98-05-5	0.27	0.27	0.27	0.27	mg/m3	
276	Benzene-d6; (Deuterated benzene)	1076-43-3	1	50	150	1000	ppm	
277	Benzenesulfonic acid chloride; (Benzenesulfonyl chloride)	98-09-9	0.5	1.5	200	200	mg/m3	
278	Benzenesulfonic acid, 4-chloro	98-66-8	2	6	40	200	mg/m3	Added.
279	Benzenesulfonic acid, 5-chloro-2	z-0114	10	30	50	250	mg/m3	Added. Not found in databases.
280	Benzenetetracarboxylic dianhydride, 1,2,4,5-	89-32-7	1.5	5	15	15	mg/m3	
281	**Benzenethiol; (Thiophenol; Phenyl mercaptan)**	**108-98-5**	0.1	0.1	**0.53**	**1.6**	ppm	**New interim AEGL-2, -3.** All Ts changed.
282	Benzidene	92-87-5	0.15	0.5	3.5	125	mg/m3	
283	Benzo(a)anthracene	56-55-3	0.1	0.3	2	15	mg/m3	
284	Benzo(a)pyrene; (Coal tar pitch volatiles)	50-32-8	0.2	0.6	15	80	mg/m3	
285	Benzo(ghi)perylene	191-24-2	10	30	50	250	mg/m3	No toxicity data found.
286	Benzo(k)fluoranthene	207-08-9	0.2	0.6	4	20	mg/m3	
287	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/m3	Not found in databases. MSDS MW, SG.
288	Benzoic acid	65-85-0	4	12.5	75	400	mg/m3	
289	Benzoic acid, sodium salt	532-32-1	100	350	500	500	mg/m3	No pchem data found.
290	Benzoin oxime	441-38-3	0.6	1.5	12.5	60	mg/m3	Rat LD > 500 mg/kg. No pchem data found.

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
291	**Benzonitrile**	**100-47-0**	1	3	**22**	**56**	ppm	**Interim AEGL-2, -3.** Units changed.
292	Benzophenone	119-61-9	0.5	1.5	350	500	mg/m3	
293	Benzoquinone, p-; (Quinone)	106-51-4	0.1	0.3	0.5	22.6	ppm	
294	Benzothiazole	95-16-9	5	15	100	150	mg/m3	
295	Benzotriazole	95-14-7	0.025	0.075	0.5	250	mg/m3	
296	Benzotrifluoride	98-08-8	6.41	15	125	500	mg/m3	
297	**Benzoyl chloride**	**98-88-4**	0.1	**0.3**	**5**	**20**	ppm	**ERPG-1, -2, -3.** T-0 changed.
298	Benzoyl peroxide	94-36-0	5	5	12.5	500	mg/m3	
299	Benzyl acetate	140-11-4	10	10	10	30	ppm	
300	Benzyl alcohol	100-51-6	10	60	150	150	ppm	
301	Benzyl aminopurine, 6-; (6-Benzyladenine)	1214-39-7	5	15	100	500	mg/m3	
302	Benzyl benzoate	120-51-4	12.5	35	250	500	mg/m3	
303	**Benzyl chloride**	**100-44-7**	1	**1**	**10**	**50**	ppm	**ERPG-1, -2, -3.**
304	**Benzyl chloroformate; (Carbobenzoxy chloride)**	**501-53-1**	0.04	0.125	**0.97**	**2.9**	ppm	**New interim AEGL-2, -3.** All Ts and units changed.
305	Benzyl cyanide; (Phenylacetonitrile)	140-29-4	0.2	0.6	4.3	30	mg/m3	
306	Benzyl trichloride; (Trichloromethylbenzene)	98-07-7	0.35	1	7	25	mg/m3	T-0, T-1 changed.

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
307	Benzylamine	100-46-9	2.5	7.5	50	250	mg/m3	
308	Benzyldimethylamine; (Dimethylbenzylamine, N,N-; BDMA)	103-83-3	1	3	20	200	mg/m3	
309	Benzyldimethyloctadecylammonium chloride; (Dimethyloctadecylbenzylammonium chloride)	122-19-0	5	15	100	500	mg/m3	
310	Benzylmagnesium chloride	6921-34-2	1.5	5	35	150	mg/m3	TSCA listed. Water reactive, it is in solution of diethyl ether or tetrahydrofuran. No toxicity data found.
311	Benzyltrimethylammonium hydroxide; (Triton b)	100-85-6	0.1	0.35	2.5	12.5	mg/m3	
312	**Beryllium**	**7440-41-7**	0.002	0.01	**0.025**	**0.1**	mg/m3	**ERPG-2, -3.** T-1 changed**.**
313	Beryllium chloride	7787-47-5	0.0177	0.0443	0.0443	35.5	mg/m3	
314	Beryllium fluoride	7787-49-7	0.0104	0.0261	0.0261	20.9	mg/m3	
315	Beryllium hydroxide	13327-32-7	0.00955	0.0239	0.239	19.1	mg/m3	
316	Beryllium nitrate	13597-99-4	0.0295	0.0738	7.38	59	mg/m3	
317	Beryllium oxide	1304-56-9	0.00555	0.0139	1.39	11.1	mg/m3	
318	Betaine, anhydrous; (Glycine betaine)	107-43-7	40	125	500	500	mg/m3	
319	Bicyclo(2.2.1)heptane-2-carbonitrile, 5-chloro-6-((((methylamino)carbonyl)oxy)imino)-, (IS-(1-alpha,2-beta,4-alpha,5-alpha,6E))-	15271-41-7	3.5	10	19	19	mg/m3	Names vary from source to source, CASRN identifies.

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
320	Bioxirane, 2,2'-; (1,2:3,4-Diepoxybutane)	1464-53-5	0.04	0.125	0.995	10	ppm	
321	Biphenylol, 4-	92-69-3	10	35	60	60	mg/m3	
322	Biphenylol, sodium salt, 2-;	132-27-4	2.5	7.5	60	300	mg/m3	
323	Bis(1,1-dimethylethyl)-4-ethylphenol, 2,6-	4130-42-1	4	12.5	75	400	mg/m3	
324	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/m3	
325	Bis(1-methylethyl)benzene, 1,4-; (p- or 1,4-Diisopropylbenzene)	100-18-5	12.5	40	300	500	mg/m3	
326	Bis(1-methylethyl)benzene; (Diisopropylbenzene)	25321-09-9	5	15	100	500	mg/m3	
327	Bis(2,3-epoxypropoxy) butane, 1,4-	2425-79-8	30	100	500	500	mg/m3	
328	Bis(2-butoxyethyl) ether; (Dibutyl carbitol; Diethylene glycol dibutyl ether)	112-73-2	6	15	125	200	ppm	
329	Bis(2-chlorethylthioethyl) ether; (2,2'-Di(3-chloroethylthio)diethyl ether)	63918-89-8	0.3	0.75	6	30	mg/m3	
330	Bis(2-Chloroethoxy)ethane, 1,2-; (Triglycol dichloride)	112-26-5	1	3	20	100	mg/m3	
331	**Bis(2-chloroethyl)sulfide; (HD; Sulfur mustard)**	**505-60-2**	0.0035	**0.010**	**0.020**	**0.32**	ppm	**Final AEGL-1, -2, -3.**
332	Bis(2-chloroethylthio)ethane, 1,2-; (Sesquimustard)	3563-36-8	0.06	0.15	1.25	6	mg/m3	
333	Bis(2-chloroethylthio)methane	63869-13-6	0.05	0.15	1	5	mg/m3	Not found in databases.
334	Bis(2-chloroethylthio)-n-butane, 1,4-	142868-93-7	0.06	0.2	1.25	6	mg/m3	Not found in databases.

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
335	Bis(2-chloroethylthio)-n-pentane, 1,5-	142868-94-8	0.075	0.2	1.5	7.5	mg/m3	Not found in databases.
336	Bis(2-chloroethylthio)-n-propane, 1,3-	63905-10-2	0.06	0.15	1.25	6	mg/m3	Not found in databases.
337	Bis(2-chloroethylthiomethyl)ether	63918-90-1	0.06	0.15	1.25	6	mg/m3	Not found in databases.
338	Bis(2-ethoxyethyl) ether; (Diethyl carbitol)	112-36-7	75	250	500	500	mg/m3	
339	Bis(2-ethylhexyl) hydrogen phosphate	298-07-7	0.02	0.06	0.4	2	mg/m3	
340	Bis(2-ethylhexyl) phenyl phosphate	16368-97-1	0.075	0.2	1.5	7.5	mg/m3	No pchem data found, 17W mammal TClo ignored.
341	Bis(2-hydroxyethyl)dodecanamide, N,N-	120-40-1	0.004	0.01	0.075	100	ppm	
342	Bis(2-methylstyryl)benzene, 4-; (1,4-Bis(2-(2-methylphenyl)ethenyl)benzene)	13280-61-0	10	30	50	250	mg/m3	No useful data found.
343	Bis(3-tert-butyl-4-hydroxy-6-methylphenyl) sulfide	96-69-5	15	30	300	500	mg/m3	
344	Bis(chloromethyl)ketone; (1,3-Dichloroacetone)	534-07-6	0.125	0.4	2	2	mg/m3	
345	Bis(chloromethyl)oxetane, 3,3-	78-71-7	0.4	1.25	2	75	mg/m3	
346	Bis(Dimethylamino)acridine, 3,6-; (Acridine orange)	494-38-2	0.4	1.25	7.5	40	mg/m3	
347	Bis(trifluoromethyl)benzene, 1,3-	402-31-3	4.7	14.1	23.5	470	mg/m3	No toxicity data found.
348	Bis(tris(hydroxymethyl)methylamino)propane, 1,3-; (Bis-tris propane)	64431-96-5	10	30	50	250	mg/m3	Not listed in databases. ChemFinder listed, MSDS pchem data.
349	Bis[(benzo-15-crown-5)-15-ylmethyl] pimelate	69271-98-3	10	30	50	250	mg/m3	Not found in databases.
350	Bisbutenylenetetrahydrofurfural; (2,3,4,5-bis(2-butylene)tetrahydro-2-furaldehyde)	126-15-8	10	30	200	500	mg/m3	

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
351	Bismuth	7440-69-9	1.5	5	40	200	mg/m3	
352	Bismuth acetate	22306-37-2	10	30	50	250	mg/m3	HSDB, HC&P listed, no toxicity data, MSDS HHR =2.
353	Bismuth germanate	12233-73-7	1.5	5	40	200	mg/m3	
354	Bismuth hydroxide	10361-43-0	1	1	3	100	mg/m3	**SAR**
355	Bismuth hydroxide nitrate oxide; (White paint)	1304-85-4	7.5	20	150	500	mg/m3	
356	Bismuth iodide	7787-64-6	1.5	5	35	150	mg/m3	TSCA listed, ChemFinder pchem data. HHR = 3
357	Bismuth nitrate	10361-44-1	1.25	4	25	500	mg/m3	
358	Bismuth oxide	1304-76-3	20	60	400	500	mg/m3	
359	Bismuth oxychloride	7787-59-9	75	250	500	500	mg/m3	
360	Bismuth(III) nitrate, pentahydrate	10035-06-0	2	6	40	500	mg/m3	
361	Bisphenol A	80-05-7	5	15	100	500	mg/m3	
362	Bisphenol A diglycidyl ether	1675-54-3	1.25	3.5	6	6	mg/m3	
363	Bitoscanate; (1,4-Phenylenediisothiocyanic acid)	4044-65-9	4	12.5	20	20	mg/m3	
364	BoBCalix; (Calix[4]arene-bis(t-octylbenzo-crown-b)	z-0110	10	30	50	250	mg/m3	Not found in databases. MF, MW from MSDS.
365	Borane methyl sulfide complex; (Methyl sulfide complex with borane (1:1))	13292-87-0	0.1	0.3	2	10	ppm	
366	Borane-tetrahydrofuran	14044-65-6	5	15	25	125	mg/m3	No toxicity data, unstable

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Table 2: Protective Action Criteria (PAC) Rev 24
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No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
367	Borate	14213-97-9	60	150	500	500	mg/m3	ot found in databases. Used human median lethal dose for boric acid.
368	Boric acid	10043-35-3	2	6	100	125	mg/m3	
369	Boric acid, tributyl ester; (Tri-n-butyl borate)	688-74-4	1	3	20	100	ppm	T-0, T-1 changed.
370	Boron	7440-42-8	2.5	7.5	50	250	mg/m3	
371	Boron carbide	12069-32-8	10	30	50	250	mg/m3	No toxicity data found.
372	Boron nitride	10043-11-5	400	500	500	500	mg/m3	Rat LD > 50 g/kg
373	Boron oxide	1303-86-2	15	30	300	500	mg/m3	
374	**Boron tribromide**	**10294-33-4**	0.1	**0.33**	**7.3**	**40**	ppm	**New interim AEGL-1, -2, -3.** All Ts changed.
375	Boron trichloride	10294-34-5	0.1	0.3	2.09	2.5	ppm	
376	**Boron trifluoride**	**7637-07-2**	0.75	**2.5**	**37**	**110**	mg/m3	**Interim AEGL-1, -2, -3. ERPG-1, -2, -3.** T-0 changed.
377	Boron trifluoride etherate	109-63-7	9.34	25	150	500	mg/m3	
378	**Boron trifluoride-dimethyl ether**	**353-42-4**	0.75	**2.5**	**37**	**110**	mg/m3	**Interim AEGL-1, -2, -3. AEGLs for boron trifluoride added.** All Ts changed.
379	Botulinum toxin-A	93384-43-1	1.5E-09	4E-09	3E-08	0.00003	mg/m3	Added. Dose 2.8 units/kg, assume unit = 1 ng
380	Botulinum toxin-B	z-0117	0.000004	0.0000125	0.000015	0.000015	mg/m3	Added. Dose is 20.8 units/kg, assume unit = 1 ng
381	Botulinum toxin-F	z-0118	7.5E-08	0.0000002	1.5E-06	0.00001	mg/m3	Added.

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No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
382	Botulinum, clostridium	z-0119	6E-09	1.5E-08	1.25E-07	6E-07	mg/m3	Added.
383	Brij-35; (alpha-Dodecyl-omega-hydroxypolyoxy-ethylene)	9002-92-0	0.15	0.5	3.5	400	mg/m3	
384	Brilliant blue	2650-18-2	0.06	0.06	0.06	0.06	mg/m3	ChemFinder has different MF, MW
385	Bromadiolone	28772-56-7	0.2	0.6	1	1	mg/m3	
386	**Bromine**	**7726-95-6**	0.033	**0.033**	**0.24**	**8.5**	ppm	**Interim AEGL-1, -2, -3.**
387	**Bromine chloride**	**13863-41-7**	0.15	**0.5**	**2.5**	**7.6**	ppm	**New interim AEGL-1, -2, -3.** All Ts changed.
388	**Bromine pentafluoride**	**7789-30-2**	0.1	0.15	**1.0**	**33**	ppm	**Interim AEGL-2, -3.**
389	**Bromine trifluoride**	**7787-71-5**	0.04	**0.12**	**2.0**	**21**	ppm	**Interim AEGL-1, -2, -3.** T-0 and units changed.
390	Bromo acetic acid, methyl ester	96-32-2	0.25	0.75	5	25	mg/m3	Pchem data differs in SAX, HC&P, ChemFinder.
391	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/m3	
392	Bromo-2-chloro-1,1,2-trifluoroethane, 1-; (1,1,2-Trifluoro-1-bromo-2-chloroethane)	354-06-3	50	150	1000	5000	ppm	Deleted Halon 1301, CASRN = 75-63-8, from synonyms.
393	Bromo-3-chloro-5,5-dimethylhydantoin, 1-; (1-Bromo-3-chloro-5,5-dimethyl-2,4-imidazolidinedione)	16079-88-2	6	15	125	500	mg/m3	
394	Bromo-3-methylbutane, 1-	107-82-4	4	12.5	75	400	ppm	
395	Bromoacetaldehyde diethyl acetul	2032-35-1	7.5	25	150	500	mg/m3	TSCA listed. MSDS HHR = 2.
396	Bromoacetic acid	79-08-3	0.04	0.125	0.75	4	mg/m3	Corrosiveto skin and mucous membranes.

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No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
397	Bromoacetone	598-31-2	0.075	0.2	1.5	7.5	ppm	
398	Bromoanisole, 99, 3-	2398-37-0	10	30	50	250	mg/m3	No toxicity data, no HHR found.
399	Bromobenzene; (Phenyl bromide)	108-86-1	0.75	2.5	20	350	ppm	T-2 changed.
400	Bromochlorobenzene, m-	108-37-2	10	30	50	250	mg/m3	
401	Bromochlorobenzene, p-	106-39-8	10	30	50	250	mg/m3	
402	Bromochloromethane	74-97-5	200	600	1000	2000	ppm	
403	Bromocresol green	76-60-8	10	30	50	250	mg/m3	No toxicity data found.
404	Bromocresol purple	115-40-2	10	30	50	250	mg/m3	No toxicity data found.
405	Bromocyclohexanol, Cis-2-	16536-57-5	0.04	0.125	0.75	40	ppm	**SAR**
406	Bromodecane, 1-	112-29-8	1.5	5	35	150	ppm	
407	Bromodichloromethane	75-27-4	1.5	4	30	150	mg/m3	
408	Bromododecane, 1-	143-15-7	7.5	25	150	500	mg/m3	TSCA listed, MSDS HHR = 2.
409	Bromoethane; (Ethyl bromide)	74-96-4	5	750	2000	2000	ppm	PEL-TWA ignored. T-1, T-2, T-3 changed.
410	Bromoethanol , 2- (ethylene bromohydrin)	540-51-2	0.075	0.2	1.5	60	mg/m3	
411	Bromoethylmagnesium	925-90-6	1.5	5	35	150	mg/m3	TSCA listed, no toxicity data found, MSDS HHR = 3.
412	Bromofluorobenzene, 4-; (p-fluorobromobenzene)	460-00-4	75	200	500	500	mg/m3	

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
413	Bromoform; (Tribromomethane)	75-25-2	0.5	0.5	1	850	ppm	
414	Bromohexane; (n-Hexyl bromide)	111-25-1	40	125	750	4000	ppm	
415	Bromomesitylene, 2-; (2-Bromo-1,3,5-trimethylbenzene)	576-83-0	10	30	50	250	mg/m3	TSCA & HC&P listed. No toxicity data found.
416	Bromomethyl-1,3-dioxolane, 2-	4360-63-8	7.5	25	150	500	mg/m3	TSCA listed, no toxicity data found, MSDS HHR.
417	Bromonaphthalene	90-11-9	3.5	10	60	350	mg/m3	
418	Bromonitromethane	563-70-2	0.75	2.5	15	75	mg/m3	MSDS HHR = 2.
419	Bromooctane , 1-; (Octyl bromide)	111-83-1	2.5	7.5	50	250	ppm	
420	Bromophenol blue	115-39-9	10	30	50	250	mg/m3	RTECS, TSCA, HC&P listed, no toxicity data found.
421	Bromophenyl phenyl ether, 4-	101-55-3	2	6	40	200	mg/m3	
422	Bromopropane, 1-	106-94-5	10	30	2500	2500	ppm	
423	Bromopropane, 2-	75-26-3	600	1500	12500	25000	ppm	
424	Bromopyrene, 3-	1714-29-0	10	30	50	250	mg/m3	Not found in databases, assumed solid or non-volatile liquid.
425	Bromosuccinimide, N-	128-08-5	2	6	40	200	mg/m3	
426	Bromothymol blue	76-59-5	10	30	50	250	mg/m3	RTECS, TSCA, HC&P listed, no toxicity data.
427	Bromotoluene, A-; (Benzyl bromide)	100-39-0	0.6	1.5	12.5	60	mg/m3	
428	Bromotrichloromethane	75-62-7	0.06	0.15	1.25	6	ppm	

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
429	Bromotrifluoroethylene	598-73-2	7.06	21.2	125	125	ppm	
430	Bromotrifluoromethane; (Trifluorobromomethane)	75-63-8	1000	3500	25000	40000	ppm	
431	Bromotrimethylsilane; (Trimethylsilyl bromide)	2857-97-8	1.5	5	35	150	mg/m3	TSCA listed, no yoxicity data found, MSDS HHR = 3.
432	Brown menhaden fish oil	68440-42-6	10	30	50	250	mg/m3	TSCA listed, no toxicity or pchem data found
433	Brucine; (2,3-Dimethoxystrychnine)	357-57-3	0.6	1.5	12.5	40	mg/m3	
434	Buffer solution, aequeous	7732-18-5	500	500	500	500	mg/m3	
435	**Butadiene,1,3-**	**106-99-0**	1	**670**	***5300***	***22000***	ppm	**Interim AEGL-1, -2, -3. T-0 changed.** See LEL Formattinng Note.
436	Butanaminium,N,N,N-tributyl bromide, 1-; (Tetrabutylammonium bromide)	1643-19-2	10	30	50	250	mg/m3	No toxicity data found.
437	**Butane**	**106-97-8**	1000	***5500***	***17000***	***53000***	ppm	**Interim AEGL-1, -2, -3. T-0 changed.** See LEL Formattinng Note.
438	Butanedioic acid, diethyl ester; (Succinic acid, diethyl ester)	123-25-1	5	15	100	500	ppm	
439	Butanedioic acid, dimethyl ester; (Succinic acid, dimethyl ester)	106-65-0	3.5	10	75	350	ppm	
440	Butanediol dinitrate, 1,4-	3457-91-8	0.05	0.125	0.4	3	ppm	**SAR**
441	Butanediol, 1,3-	107-88-0	25	75	500	500	mg/m3	
442	Butanediol, 1,4-; (1,4-Tetramethylene glycol)	110-63-4	1.25	3.5	25	250	mg/m3	

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
443	Butanedione, 2,3-	431-03-8	20	60	400	400	mg/m3	
444	Butanenitrile; (Butyronitrile)	109-74-0	8	24	40	50	ppm	
445	Butanephosphonic acid	3321-64-0	0.02	0.06	0.4	2	mg/m3	**SAR**
446	Butanethiol; (n-Butyl mercaptan)	109-79-5	0.5	7.5	50	500	ppm	
447	Butanoic acid, butyl ester; (n-Butyl n-butanoate)	109-21-7	1.5	5	35	150	ppm	
448	Butanol, aluminum salt, 2-	2269-22-9	18.3	54.8	91.3	400	mg/m3	TSCA, HC&P listed, no toxicity data.
449	Butanol-d10, n-	34193-38-9	0.5	1.5	10	50	ppm	LC50 eztimated from HHR.
450	Butanone oxime; (Ethyl methyl ketoxime)	96-29-7	10	40	100	100	ppm	
451	**Butanone, 2-; (Methyl ethyl ketone; MEK)**	**78-93-3**	200	**200**	***2700***	***4000***	ppm	**Interim AEGL-1, -2, -3.** See LEL Formattinng Note.
452	Butene, 1-; (Butylene)	106-98-9	250	750	***50000***	***75000***	ppm	HSDB toxicity data used, all Ts changed. See LEL Formattinng Note.
453	Butene, 2-	107-01-7	250	***750***	***1250***	***60000***	ppm	New TLV-TWA, RTECS data used, all Ts changed. See LEL Formattinng Note.
454	Butene, cis-2-; (cis-1,2-Dimethylethylene)	590-18-1	250	***65000***	***230000***	***400000***	ppm	New TLV-TWA, T-0 changed. Simple asphyxiant. See LEL Formattinng Note.
455	Butene, trans-2-; (Trans-1,2-dimethylethylene)	624-64-6	250	750	***40000***	***75000***	ppm	HSDB toxicity data used, all Ts changed. See LEL Formattinng Note.
456	Butoxyethanol acetate, 2-; (Ethylene glycol monobutyl ether acetate)	112-07-2	20	60	100	150	ppm	T-0, T-1, T-2 changed.
457	Butoxyethanol phosphate, 2-	78-51-3	7.5	20	150	500	mg/m3	
458	Butoxyethanol, 2-; (Glycol ether EB)	111-76-2	50	50	100	700	ppm	

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
459	Butoxyethoxy)ethanol, 2-(2-; (Diethylene glycol monobutyl ether)	112-34-5	100	100	500	500	mg/m3	
460	Butoxyethoxy)ethyl thiocyanate, 2-(2-	112-56-1	0.35	1	7.5	40	mg/m3	
461	Butoxypolypropylene glycol	9003-13-8	35	100	500	500	mg/m3	RTECS has six entries for this CASRN
462	**Butyl acetate, n-**	**123-86-4**	5	**5**	**200**	***3000***	ppm	**ERPG-1, -2, -3.** See LEL Formattinng Note.
463	Butyl acetate, sec-	105-46-4	200	200	350	***1700***	ppm	T-2, T-3 changed. See LEL Formattinng Note.
464	Butyl acetate, tert-	540-88-5	200	600	1000	***1500***	ppm	See LEL Formattinng Note.
465	Butyl acetoacetate, tert-	1694-31-1	20	60	400	500	mg/m3	TSCA listed, no toxicity data found. MSDS rat oral LD50 > 5 g/kg.
466	**Butyl acrylate, n-**	**141-32-2**	2	**8.3**	**130**	**480**	ppm	**Interim AEGL-1, -2, -3.**
467	Butyl alcohol, n-	71-36-3	50	50	50	***1400***	ppm	See LEL Formattinng Note.
468	Butyl alcohol, sec-; (2-Butanol)	78-92-2	100	150	***2000***	***2000***	ppm	See LEL Formattinng Note.
469	Butyl bis(2-ethylhexyl)phosphate	z-0002	0.2	0.6	0.75	0.75	ppm	**SAR**
470	Butyl bromide, n-; (1-Bromobutane)	109-65-9	15	50	350	1500	ppm	
471	**Butyl chloroformate, n-**	**592-34-7**	0.2	0.3	**2.2**	**6.7**	ppm	**New interim AEGL-2, -3.** All Ts changed.
472	**Butyl chloroformate, sec-**	**17462-58-7**	0.1	0.3	**2.2**	**6.7**	ppm	**New interim AEGL-2, -3.** All Ts changed.
473	Butyl ether, n-; (Dibutyl ether)	142-96-1	1	3	20	400	ppm	
474	Butyl glycidyl ether, n-	2426-08-6	3	3	5.6	250	ppm	PEL-TWA ignored.

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
475	**Butyl isocyanate, n-**	**111-36-4**	0.0035	**0.01**	**0.05**	**1**	ppm	**ERPG-1, -2, -3**
476	Butyl isocyanate, Tert-	1609-86-5	0.25	0.75	5	25	mg/m3	TSCA listed, MSDS toxicity data.
477	Butyl levulinate	2052-15-5	20	60	400	500	mg/m3	Rat LD50 > 5 g/m3
478	Butyl lithium	109-72-8	0.231	0.231	1.25	6	mg/m3	No toxicity data, based on LiH LClo.
479	Butyl methyl-d3 ether, tert-	29366-08-3	50	150	4000	4000	ppm	Listed in ChemFinder, no pchem or toxicity data found, used Tert-butyl methyl ether 1634-04-4 data.
480	Butyl perbenzoate, tert-	614-45-9	7.5	25	150	400	mg/m3	Rat and mouse 240 min LC > 57 mg/m3
481	Butyl propanoate; (Propanoic acid, butyl ester)	590-01-2	500	500	500	500	mg/m3	
482	Butyl-2-methylcyclopropane, T-1-	38851-70-6	10	30	50	250	mg/m3	Not found in any databases.
483	Butyl-3-iodo-2-propynylcarbamate	55406-53-6	10	30	50	250	mg/m3	Not found in any databases.
484	Butylamine, (S)-sec-	513-49-5	0.5	1.5	10	50	ppm	
485	Butylamine, n-	109-73-9	2.5	7.5	50	300	ppm	T-0, T-1 changed.
486	Butylamine, sec-	13952-84-6	5	5	10	20	ppm	
487	Butylamine, tert-	75-64-9	5	5	10	125	ppm	
488	Butylbenzene, n-; (1-Phenylbutane)	104-51-8	7.5	20	150	750	ppm	
489	Butylbenzene, sec-; (2-Phenylbutane)	135-98-8	1.5	5	35	150	ppm	

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Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
490	Butylbenzene, tert-	98-06-6	7.5	20	150	***750***	ppm	See LEL Formattinng Note.
491	Butylcyclohexane; (1-Cyclohexylbutane)	1678-93-9	1.5	5	40	200	ppm	
492	Butylcyclohexanone, p-tert-	98-53-3	20	60	400	500	mg/m3	
493	Butylene carbonate; (1,2-Butanediol, cyclic carbonate)	4437-85-8	20	60	400	500	mg/m3	Rat LD50 > 5 g/kg. No pchem data found.
494	Butylpyrocatechol, 4-tert-; (4-tert-Butylcatechol)	98-29-3	0.1	0.3	2	500	mg/m3	2006 OEV Guide and 2006 ERPG and WEEL booklet WEEL data conflict. WEEL-TWA should be WEEL-C.
495	**Butyltrichlorosilane**	**7521-80-4**	0.2	**0.60**	**7.3**	**33**	ppm	**New interim AEGL-1, -2, -3.** Added.
496	Butyne-1,4-diol, 2-; (1,4-Butynediol)	110-65-6	0.35	1	20	30	mg/m3	
497	Butyraldehyde	123-72-8	0.02	0.06	0.4	12.5	ppm	WEEL-TWA = 25 ppm not used.
498	Butyric acid	107-92-6	15	40	250	250	ppm	
499	Butyric acid, sodium salt	156-54-7	50	150	500	500	mg/m3	Dog iv data ex HSDB.
500	**BZ; (3-Quinuclidinyl benzilate)**	**6581-06-2**	0.006	0.02	**0.033**	**0.62**	mg/m3	**New interim AEGL-2, -3.** Added.
501	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/m3	MSDS not found.
502	C-18 Unsarturated fatty acid, dimers, reaction products with polyethylenepolyamines; (Versamid 140 polyamide resin; Versamid 125)	68410-23-1	10	30	50	250	mg/m3	TSCA listed, no toxicity data.
503	Cacodylic acid	75-60-5	0.5	1.5	5	5	mg/m3	

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
504	Cadmium and compounds, as Cd.	7440-43-9	0.005	0.03	1.25	9	mg/m3	
505	Cadmium bromide	7789-42-6	0.0121	0.0727	4	21.8	mg/m3	
506	Cadmium carbonate	513-78-0	0.00767	0.046	4	13.8	mg/m3	
507	Cadmium chloride	10108-64-2	0.00815	0.0489	0.5	14.7	mg/m3	
508	Cadmium chloride hemipentahydrate; (Cadmium chloride, 2.5-hydrate)	7790-78-5	0.25	0.75	5	300	mg/m3	
509	Cadmium fluoride	7790-79-6	0.00669	0.0401	4	12	mg/m3	
510	Cadmium hydroxide	21041-95-2	0.00651	0.0391	4	11.7	mg/m3	
511	Cadmium nitrate	10325-94-7	0.0105	0.0631	4	18.9	mg/m3	
512	Cadmium nitrate tetrahydrate	10022-68-1	0.0137	0.6	4	24.7	mg/m3	
513	Cadmium nitrite	7790-83-2	0.00909	0.0546	4	16.4	mg/m3	
514	Cadmium oxide	1306-19-0	0.00571	0.0343	4	10.3	mg/m3	
515	Cadmium stearate; (Octadecanoic acid, cadmium salt)	2223-93-0	0.0303	0.182	13	54.6	mg/m3	
516	Cadmium sulfate	10124-36-4	0.00928	0.0557	4	16.7	mg/m3	
517	Cadmium sulfate, hydrate	7790-84-3	0.0157	0.0941	0.3	28.2	mg/m3	MF, MW differ in HSDB, HC&P, ChemFinder from SAX and RTECS.
518	Cadmium sulfide	1306-23-6	0.00643	0.0386	11.6	11.6	mg/m3	
519	Cadmium tungstate	7790-85-4	0.016	0.0961	4	28.8	mg/m3	

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No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
520	Cadmium(II) acetate	543-90-8	0.00517	0.031	4	9.3	mg/m3	
521	Calcium	7440-70-2	10	30	50	250	mg/m3	No toxicity data found.
522	Calcium acetate	62-54-4	0.02	0.06	0.4	30	mg/m3	
523	Calcium arsenate	7778-44-1	0.0266	1.5	10	13.3	mg/m3	T-0, T-1, T-3 changed.
524	Calcium carbide	75-20-7	10	30	50	250	mg/m3	
525	Calcium carbonate; (Dolomite, Limestone)	1317-65-3	15	15	60	300	mg/m3	T-1, T-2, T-3 changed.
526	Calcium chloride	10043-52-4	25	75	400	400	mg/m3	
527	Calcium chloride dihydrate	10035-04-8	40	125	500	500	mg/m3	
528	Calcium chloride hexahydrate	7774-34-7	5	15	100	500	mg/m3	
529	Calcium chloride hydrate	22691-02-7	30	100	450	500	mg/m3	Not found in databases.
530	Calcium chromate	13765-19-0	0.015	0.0901	1.25	45	mg/m3	
531	Calcium cyanamide	156-62-7	0.5	1.5	125	500	mg/m3	
532	Calcium fluoride	7789-75-5	5.14	15.4	200	500	mg/m3	
533	Calcium formate	544-17-2	10	30	200	500	mg/m3	
534	Calcium hydride	7789-78-8	1.5	5	35	150	mg/m3	LD50 estimated from HHR.
535	Calcium hydroxide	1305-62-0	15	15	500	500	mg/m3	

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
536	Calcium hypochlorite; (Calcium oxychloride)	7778-54-3	3.5	10	75	350	mg/m3	
537	Calcium metasilicate	10101-39-0	10	30	50	250	mg/m3	MF, MW differ in databases. No toxicity or pchem data found. No MSDS, assumed solid.
538	Calcium monohydrogen phosphate dihydrate	7789-77-7	10	30	50	250	mg/m3	No toxicity data found.
539	Calcium nitrite	13780-06-8	0.03	0.075	0.6	50	mg/m3	Listed as "Nitrous acid, calcium salt", MF = Ca.2(HNO2), MW = 134.10 **SAR**
540	Calcium oxalate	563-72-4	6	15	50	50	mg/m3	Listed as "Ethanedioic acid, calcium salt", MF = C2H2O4.Ca, MW = 130.11 **SAR**
541	Calcium oxalate, hydrate	5794-28-5	10	30	50	250	mg/m3	In ChemFinder, no toxicity data.
542	Calcium oxide	1305-78-8	5	5	5	25	mg/m3	
543	Calcium phosphate tribasic	12167-74-7	10	30	50	250	mg/m3	No toxicity or pchem data found. MSDS MP, SG.
544	Calcium phosphate; (Tricalcium phosphate)	10103-46-5	7.5	20	35	350	mg/m3	**SAR**
545	**Calcium phosphide**	**1305-99-3**	0.05	0.15	**1.0**	**1.8**	ppm	**New Interim AEGL-2, -3.** Added.
546	Calcium sulfate anhydrous; (Drierite; Gypsum; Plaster of Paris)	7778-18-9	15	30	50	250	mg/m3	MF and MW in HSDB not compatible.
547	Calcium(II) nitrate	10124-37-5	1.25	3.5	25	125	mg/m3	
548	Calcium(II) nitrate tetrahydrate (1:2:4)	13477-34-4	15	50	350	500	mg/m3	
549	Calcium(II) sulfate dihydrate (1:1:2)	10101-41-4	15	30	50	75	mg/m3	Long-term human TClo ignored.
550	Camphor	76-22-2	2	19	19	200	mg/m3	

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
551	Camphorsulfonic acid, (1R)-(-)-10-	35963-20-3	4	12.5	75	400	mg/m3	Not found in databases, used Reychler's acid, 3144-16-9, same MF and MW.
552	Cantharidin	56-25-7	0.75	2.5	4.3	4.3	mg/m3	
553	Caprolactam (dust)	105-60-2	1	3	3	20	mg/m3	
554	Caprolactone; (epsilon-Lactone hexanoic acid)	502-44-3	15	50	350	500	mg/m3	
555	Caprylyl chloride; (Octanoyl chloride)	111-64-8	10	30	50	250	mg/m3	No toxicity data found, "Y" concentration dependence ignored.
556	CAPSO	73463-39-5	10	30	50	250	mg/m3	Not found in databases, MSDS pchem data.
557	Captan	133-06-2	5	15	30	500	mg/m3	
558	Carbachol Chloride	51-83-2	3	7.5	15	15	mg/m3	
559	Carbamic acid, methyl-, O-(((2,4-dimethyl-1,3-dithiolan-2-yl)methylene)amino)-	26419-73-8	0.2	0.6	1	1	mg/m3	SAX has "2,4-Dimethyl-1,3-dithiolane-2-carboxaldehyde o-(methylcarbamoyl)oxime"
560	Carbanolate; (Aldicarb; Methyl-2-(methylthio)propionaldehyde-o-(methylcarbamoyl)oxime, 2-)	116-06-3	0.07	0.21	0.3	100	mg/m3	See also "Carbanolate CASRN = 471-04-5 in RTECS, HSDB, MF = C10.H12,Cl.N.O2, MW = 213.68"
561	Carbaryl	63-25-2	5	5	15	100	mg/m3	T-1, T-2 changed.
562	Carbazole	86-74-8	0.75	2.5	15	75	mg/m3	
563	Carbazole violet	6358-30-1	75	250	500	500	mg/m3	TSCA listed, no toxicity or pchem data found. MSDS solid, HHR = 1.
564	Carbethoxyethylidine(triphenylphosphorane)	5717-37-3	10	30	50	250	mg/m3	No toxicity data found.

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Table 2: Protective Action Criteria (PAC) Rev 24
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No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
565	Carbofuran	1563-66-2	0.1	0.3	0.43	0.5	mg/m3	
566	Carbon black	1333-86-4	3.5	10.5	17.5	500	mg/m3	
567	Carbon dioxide	124-38-9	5000	30000	30000	40000	ppm	T-2 changed.
568	**Carbon disulfide**	**75-15-0**	13	**13.0**	**160**	**480**	ppm	**Interim AEGL-1, -2, -3.**
569	**Carbon monoxide**	**630-08-0**	50	83	**83**	**330**	ppm	**Interim AEGL-2, -3.**
570	**Carbon tetrachloride**	**56-23-5**	10	**44**	**190**	**520**	ppm	**Interim AEGL-1, -2, -3.**
571	Carbon tetrafluoride; (Tetrafluoromethane)	75-73-0	200	600	5000	25000	ppm	
572	Carbon trifluoride; (Trifluoromethane, Fluoroform)	75-46-7	1000	3000	20000	100000	ppm	No toxicity data, TClo based on HSDB HTOX profile. T-0 changed.
573	Carbon; (Graphite, synthetic)	7440-44-0	2	6	10	500	mg/m3	(Graphite, synthetic) is synonym, CASRN = 7782-42-5, Graphite, natural
574	Carbonic acid, calcium salt	471-34-1	15	45	500	500	mg/m3	T-1 changed.
575	**Carbonyl fluoride**	**353-50-4**	0.28	0.28	**0.28**	**0.83**	ppm	**New interim AEGL-2, -3.** All Ts changed.
576	**Carbonyl sulfide**	**463-58-1**	10	30	**55**	**150**	ppm	**New interim AEGL-2, -3.** All Ts changed.
577	Carbonyldiphthalic anhydride, 4,4'-	2421-28-5	10	30	50	250	mg/m3	TSCA listed, no toxicity data.
578	Carbophenothion; (Trithion)	786-19-6	1.25	4	6.8	6.8	mg/m3	
579	Carboxymethyl cellulose	9000-11-7	40	125	500	500	mg/m3	RTECS rat oral LD > 5 mg/kg, MW given is for x = 1
580	Carboxymethyl sepharose; (CM sepharose)	68894-07-5	7.5	25	150	500	mg/m3	Not found in databases. HHR = 2 in MSDS.

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Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
581	Casamino acids	z-0008	10	30	50	250	mg/m3	Not found in databases; two hits in HSDB refer to use as a nitrogen source. CASRN changed.
582	Casein; (Casamino acids; Casein hydrolysate type 1)	9000-71-9	10	30	50	250	mg/m3	TSCA & Merck listed, no toxicity data. H&N gives "milk protein".
583	Castor oil	8001-79-4	40	125	500	500	mg/m3	
584	Catechol	120-80-9	5	5	7.5	20	ppm	Changed "N" to "Y", T-1, T-2, T-3 changed.
585	Cation exchange resin 200-400 mesh Hyd. Dowex 50W-X8	11119-67-8	10	30	50	250	mg/m3	Not found in databases
586	Cation exchange resin 50W-X12, 200 - 400 mesh	9056-03-5	10	30	50	250	mg/m3	Not found in databases
587	Cellulose	9004-34-6	15	30	500	500	mg/m3	RTECS r LD50 & LC50 greater than values entered
588	Cellulose acetate butanoate	9004-36-8	10	30	50	250	mg/m3	TSCA, H&N listed, no toxicity data,
589	Cellulose, 2-(diethylamino)ethyl ether	9013-34-7	10	30	50	250	mg/m3	TSCA listed, no toxicity data
590	Ceric ammonium nitrate	16774-21-3	39.1	117	200	500	mg/m3	
591	Ceric ammonium sulfate	7637-03-8	42.9	129	214	500	mg/m3	
592	Ceric ammonium sulfate, dihydrate	10378-47-9	10	30	50	250	mg/m3	Not found in databases. No MSDS. ChemFinder MP.
593	Ceric oxide	1306-38-3	6	20	150	500	mg/m3	Rat oral LD50 > 5 g/kg. T-2 changed.
594	Cerium	7440-45-1	10	30	50	250	mg/m3	
595	Cerium (iv) nitrate, 1.5	13093-17-9	10	30	50	250	mg/m3	Added. TSCA listed, no pchem or toxicity data found.

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Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
596	Cerium acetate	537-00-8	0.1	0.35	2	10	mg/m3	
597	Cerium chloride	7790-86-5	7.5	25	150	500	mg/m3	
598	Cerium fluoride	7758-88-5	8.65	25.9	43.2	500	mg/m3	Rat oral LD50 > 5 g/kg.
599	Cerium hydroxide	15785-09-8	0.75	0.75	2	75	mg/m3	**SAR**
600	Cerium nitrate hexahydrate	10294-41-4	15	50	350	500	mg/m3	
601	Cerium oxalate	15750-47-7	22.6	67.7	113	500	mg/m3	No toxicity data found.
602	Cerium sulfate	13590-82-4	1	3.5	20	100	mg/m3	
603	Cerium trioxide	1345-13-7	2	6	40	200	mg/m3	
604	Cerium(III) sulfate	13454-94-9	7.5	25	150	500	mg/m3	TSCA listed, no toxicity data found. HHR = 2 in MSDS.
605	Cerium(IV) hydroxide	12014-56-1	14.9	44.6	75	350	mg/m3	TSCA listed, no toxicity data, irritation, S, ex ChemFinder.
606	Cerous nitrate; (Cerium(III) nitrate)	10108-73-3	1	3	20	500	mg/m3	
607	Cerous nitrite	z-0004	0.04	0.1	0.75	75	mg/m3	**SAR**
608	Cesium	7440-46-2	6	20	150	500	mg/m3	
609	Cesium carbonate	534-17-8	10	30	200	500	mg/m3	
610	Cesium chloride	7647-17-8	0.4	1.25	10	500	mg/m3	
611	Cesium fluoride	13400-13-0	20	60	100	500	mg/m3	

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No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
612	Cesium hydroxide	21351-79-1	2	2	7.5	250	mg/m3	
613	Cesium iodide	7789-17-5	10	30	200	500	mg/m3	
614	Cesium nitrate	7789-18-6	10	30	200	500	mg/m3	
615	Cesium nitrite	13454-83-6	0.075	0.2	1.5	60	mg/m3	**SAR**
616	Cesium oxide	20281-00-9	2.24	6.72	11.2	500	mg/m3	No toxicity data, but reacts with water to form Cs.O.H
617	Charcoal, activated	64365-11-3	10	30	50	250	mg/m3	
618	Chloramben; (3-Amino-2,5-dichlorobenzoic acid)	133-90-4	35	100	500	500	mg/m3	
619	Chloramphenicol	56-75-7	0.5	1.5	7.5	350	mg/m3	Added.
620	Chlordane	57-74-9	0.5	1.5	50	100	mg/m3	
621	Chlorfenvinfos	470-90-6	2	6	10	10	mg/m3	
622	Chloric acid, sodium salt; (Sodium chlorate)	7775-09-9	0.15	0.4	3	75	mg/m3	
623	Chloride	16887-00-6	0.5	1	1	10	ppm	Listed in ChemFinder. Chlorine concentration limits used.
624	Chlorinated polyolefins	68410-99-1	10	30	50	250	mg/m3	
625	**Chlorine**	**7782-50-5**	0.5	**0.50**	**2.0**	**20**	ppm	**Final AEGL-1, -2, -3.**
626	**Chlorine dioxide**	**10049-04-4**	0.1	**0.15**	**1.1**	**2.4**	ppm	**Final AEGL-1, -2, -3.**
627	Chlorine Hi dry granular (as Cl)	z-0006	0.5	1	3	20	ppm	

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No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
628	**Chlorine pentafluoride**	**13637-63-3**	0.1	**0.30**	**1.0**	**8.0**	ppm	**Interim AEGL-1, -2, -3.**
629	**Chlorine trifluoride**	**7790-91-2**	0.04	**0.12**	**2.0**	**21**	ppm	**Final AEGL-1,-2, -3.** T-0 changed.
630	Chlormephos	24934-91-6	1.25	4	7	35	mg/m3	
631	Chlormequat Chloride; (Choline dichloride)	999-81-5	0.35	1	7	7.5	mg/m3	
632	**Chloro-1,1,1,2-tetrafluoroethane, 2-**	**2837-89-0**	1000	**1000**	**5000**	**10000**	ppm	**New ERPG-1, -2, -3.** Added.
633	**Chloro-1,1-difluoroethane, 1-; (HCFC-142b)**	**75-68-3**	1000	***10000***	***15000***	***25000***	ppm	**ERPG-1, -2, -3.** See LEL Formattinng Note.
634	Chloro-1,2-propanediol, 3-; (Chlorohydrin)	96-24-2	0.02	0.06	0.5	12.5	ppm	
635	Chloro-1-butanol, 4-	928-51-8	1.5	5	40	400	mg/m3	T-2 changed.
636	Chloro-2,4-dinitrobenzene, 1-	97-00-7	3	10	60	350	mg/m3	
637	Chloro-2-methyl-1-propene, 3-	563-47-3	0.75	2.5	15	75	ppm	
638	Chloro-2-methylpropane, 2-; (Tert-butyl chloride)	507-20-0	0.4	1	7.5	2000	ppm	
639	Chloro-2-nitrophenol, 4-	89-64-5	0.4	1.25	7.5	40	mg/m3	TSCA, HC&P listed, MSDS toxicity data.
640	Chloro-4-nitrophenol, 2-	619-08-9	0.5	1.5	10	50	ppm	Name changed
641	**Chloroacetaldehyde**	**107-20-0**	0.4	**1.3**	**2.2**	**9.9**	ppm	**Interim AEGL-1, -2, -3.** T-0 changed.
642	Chloroacetaldehyde dimethyl acetal	97-97-2	7.5	25	150	500	mg/m3	TSCA listed, no toxicity data. MSDS pchem data, assumed HHR = 2.
643	Chloroacetic acid, sodium salt	3926-62-3	2.38	7.14	40	40	mg/m3	WEEL-TWA added, T-0, T-1 changed.

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No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
644	**Chloroacetic acid; (Monochloroacetic acid)**	**79-11-8**	0.5	1.5	**6.6**	20	ppm	**Interim AEGL-2.**
645	**Chloroacetone**	**78-95-5**	0.2	0.6	**4.4**	**13**	ppm	**Interim AEGL-2, -3.** T-0, T-1 changed.
646	**Chloroacetonitrile**	**107-14-2**	1.5	4	**32**	**67**	ppm	**Interim AEGL-2, -3.** All Ts changed.
647	**Chloroacetyl chloride**	**79-04-9**	0.04	**0.040**	**1.6**	**52**	ppm	**Interim AEGL-1, -2, -3.**
648	Chloroallyl)-3,5,7-triaza-1-azoniaadamantane chloride, 1-(3-	4080-31-3	1	3	20	200	mg/m3	
649	Chloroaniline, p-	106-47-8	0.5	1.5	10	300	mg/m3	
650	**Chlorobenzene; (Benzene chloride)**	**108-90-7**	10	**10**	**150**	**400**	ppm	**New interim AEGL-1, -2, -3.** All Ts changed.
651	Chlorobenzotrifluoride, 2-	88-16-4	6	20	125	500	mg/m3	
652	Chlorobenzylate; (4,4'-Dichlorobenzilic acid ethyl ester)	510-15-6	0.3	0.75	6	300	mg/m3	
653	**Chlorobenzylidene malononitrile, o-**	**2698-41-1**	0.005	**0.005**	**0.1**	**25**	mg/m3	**ERPG-1, -2, -3. T-3 corrected.**
654	Chlorobutane, 1-; (Butyl chloride)	109-69-3	7.5	25	150	750	ppm	Ignored inconsistent Russian TDlo, used NTP TDlo data.
655	Chlorobutane, 2-; (Sec-butyl chloride)	78-86-4	0.4	1.25	7.5	3500	ppm	
656	Chlorobutyryl chloride, 4-	4635-59-0	2.5	7.5	50	250	mg/m3	
657	Chlorocyclohexanol, trans-2-	6628-80-4	3.5	10	75	400	mg/m3	
658	Chlorocyclohexene; (4-Chlorocyclohexene)	930-65-4	20	60	500	***2500***	ppm	**SAR.** See LEL Formattinng Note.

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
659	Chlorodecane, 1-	1002-69-3	48.5	145	249	1250	ppm	TSCA listed, no toxicity data.
660	Chlorodiethylaluminum; (Diethylaluminum chloride)	96-10-6	8.94	26.82	200	500	mg/m3	SAX MW (110.56) incorrect.
661	Chlorodifluoromethane	75-45-6	1000	1250	7500	7500	ppm	
662	Chloroethanesulfonyl chloride, 2-	1622-32-8	1.25	3.5	25	150	mg/m3	
663	Chloroethyl chloroformate	627-11-2	4	12.5	20	20	mg/m3	
664	Chloroethyl vinyl ether, 2-; (Ethene, 2-chloroethoxy-)	110-75-8	0.25	0.75	5	25	ppm	.
665	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.
666	**Chloroform**	**67-66-3**	2	2	**64**	**3200**	ppm	**AEGL-2, -3.**
667	Chloroform-D; (Deuterated chloroform)	865-49-6	2	2	50	500	ppm	Not found in databases, has deuterium in place of H in chloroform, so used its limits.
668	Chloro-m-cresol, 4-	59-50-7	7.5	20	150	500	mg/m3	
669	**Chloromethyl methyl ether**	**107-30-2**	0.075	0.25	**0.47**	**2.0**	ppm	**Interim AEGL-2, -3.** T-0, T-1 changed.
670	**Chloromethyl(trichloro)silane**	**1558-25-4**	0.2	**0.60**	**7.3**	**33**	ppm	**New interim AEGL-1, -2, -3.** All Ts changed.
671	Chloro-methyl-isothiazolin-3-one, 5-	26172-55-4	0.2	0.6	1	1	mg/m3	Added. No pchem data found.
672	Chloronaphthalene, 1-; (alpha-Chloronaphthalene)	90-13-1	6	20	125	500	mg/m3	
673	Chloronaphthalene, 2-; (beta-Chloronaphthalene)	91-58-7	0.2	0.6	1	500	mg/m3	

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
674	Chloronitrobenzene, p- ; (p-Nitrochlorobenzene)	100-00-5	1	1.92	100	100	mg/m3	
675	Chloroperoxybenzoic acid, 3-	937-14-4	0.3	1	6	35	mg/m3	
676	Chlorophacinone	3691-35-8	0.2	0.6	1	1	mg/m3	
677	Chlorophenol, 4-; (p-Chlorophenol)	106-48-9	250	400	400	400	mg/m3	Severe irritant. Inconsistent rat LC50 not used.
678	Chlorophenol, m-	108-43-0	0.3	0.75	6	250	mg/m3	
679	Chlorophenol, o-	95-57-8	0.4	1.25	7.5	50	ppm	
680	Chlorophenyl phenyl ether, 4-	7005-72-3	0.0025	0.0075	0.05	0.25	mg/m3	
681	Chlorophenyl thiourea, 2-	5344-82-1	0.75	2.5	4.6	4.6	mg/m3	
682	Chloropicrin/Methyl bromide mixture	8004-09-9	2	3	12.5	60	mg/m3	0.15 to 0.85 mixture assumed
683	Chloropicrin/Methyl chloride mixture	z-0007	2	2	6	30	mg/m3	0.30 to 0.70 mixture assumed
684	**Chloropicrin; (Trichloronitromethane)**	**76-06-2**	0.05	**0.050**	**0.15**	**1.4**	ppm	**New interim AEGL-1, -2, -3. ERPG-1, -2, -3.** All Ts changed.
685	Chloroprene; (Neoprene)	126-99-8	1	1	1	300	ppm	
686	Chloropropanol, 3-; (1-Propanol, 3-chloro)	627-30-5	10	30	200	500	mg/m3	
687	Chloropropionitrile, 3-	542-76-7	0.5	1.5	2.46	12.5	ppm	
688	Chloropropyl)trimethoxysilane, 3-(; (3-(Trimethoxysilyl)propyl chloride)	2530-87-2	10	30	200	350	ppm	
689	Chloropropylene, 2-	557-98-2	1000	3000	***20000***	***35000***	ppm	See LEL Formattinng Note.

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No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
690	Chloropropyl-n-octylsulfoxide, 3-	3569-57-1	1.5	5	8	500	mg/m3	
691	Chloro-p-toluenesulfonamide, sodium salt, n-; (Chloramine T)	127-65-1	0.075	0.25	2	250	mg/m3	See also SFV550, dog TDlo added. T-0, T-1, T-2 changed.
692	Chlorosarin; (o-Isopropyl methylphosphonochloridate)	1445-76-7	0.00015	0.0005	0.006	0.022	ppm	Not found in databases. Treated as Sarin, CASRN = 107-44-8. T-0, T-1 changed.
693	Chlorosoman; (o-Pinacolyl methylphosphonochloridate)	7040-57-5	0.03	0.075	0.6	3	ppm	RTECS toxicity data, no pchem data found.
694	**Chlorosulfonic acid; (Chlorosulfuric acid)**	**7790-94-5**	0.1	**0.10**	**4.4**	**25**	mg/m3	**New interim AEGL-1, -2, -3. ERPG-1, -2, -3.** All Ts changed.
695	Chlorothalonil; (Tetrachloroisophthalonitrile)	1897-45-6	3	7.5	30	30	mg/m3	Added.
696	Chlorotoluene, 2-; (o-Chlorotoluene)	95-49-8	50	75	400	400	ppm	T-2, T-3 changed.
697	Chlorotoluene, 4-; (p-Tolyl chloride)	106-43-4	25	75	500	***2500***	ppm	See LEL Formattinng Note.
698	Chlorotrifluoroethene, homopolymer	9002-83-9	0.015	0.04	0.3	500	mg/m3	Many synonyms, used first of multiple RTECS listings.
699	**Chlorotrifluoroethylene**	**79-38-9**	5	**16**	**86**	**420**	ppm	**New interim AEGL-1, -2, -3. ERPG-1, -2, -3.** T-1, T-2, T-3 changed.
700	Chlorotrifluoromethane; (CFC-13)	75-72-9	1000	3000	5000	25000	ppm	
701	**Chlorovinylarsine dichloride; (Lewisite 1)**	**541-25-3**	0.12	0.12	**0.12**	**0.74**	mg/m3	**Interim AEGL-2, -3.**
702	Chloroxuron	1982-47-4	2	6	10	500	mg/m3	
703	Chlorpyrifos; (Dursban)	2921-88-2	0.1	0.6	15	20	mg/m3	
704	Chlorsulfuran	64902-72-3	0.125	0.35	2.5	500	mg/m3	SAX r LC50 > 5900 mg/m3.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.
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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
705	Chlorthiophos	21923-23-9	0.35	1	7.8	7.8	mg/m3	RTECS CASRN = 60238-56-4 data match SAX CASRN = 21923-23-9 for which RTECS data differs. ChemFinder lists both.
706	Chromates	13907-45-4	0.00962	0.2886	6	28.8	mg/m3	Minimum values, depending upon compound. T-2 changed.
707	Chromic acetate; (Chromium(III) acetate)	1066-30-4	2.2	6.61	11	110	mg/m3	
708	Chromic acid ester	11115-74-5	0.0113	0.339	6	34	mg/m3	
709	Chromic chloride; (Chromium(III) chloride)	10025-73-7	1.52	4.57	7.61	76.1	mg/m3	
710	Chromic oxide; (Chromium(III) oxide, chromium sesquioxide)	1308-38-9	0.731	15	36.5	36.5	mg/m3	
711	Chromic sulfate; (Chromium(III) sulfate (2:3))	10101-53-8	1.89	2.5	15	94.3	mg/m3	
712	Chromic trihydroxide; (Chromic(III) acid; Chromium hydroxide)	1308-14-1	0.991	1.25	10	49.5	mg/m3	
713	Chromic trioxide; (Chromium(VI) oxide (1:3))	1333-82-0	0.00962	0.00962	0.06	28.8	mg/m3	Minimum values, depending upon compound.
714	Chromic(VI) acid	7738-94-5	0.0113	0.339	6	34	mg/m3	New OSHA PEL-TWA. Minimum values, depending upon compound. All Ts changed.
715	Chromite; (Chromite (mineral))	1308-31-2	1.08	3.23	5.38	500	mg/m3	
716	Chromium	7440-47-3	1	1.5	2.5	250	mg/m3	
717	Chromium nitrate	10103-47-6	4.74	14.2	23.7	237	mg/m3	RTECS listed, no toxicity or pchem data.
718	Chromium nitrate nonahydrate	7789-02-8	3.85	11.5	20	192	mg/m3	

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No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
719	Chromium perchlorate, hydrated	13537-21-8	3.37	10.1	16.8	168	mg/m3	No toxicity or pchem data found.
720	Chromium(III) acetate hydroxide	39430-51-8	2.4	7.21	12.5	120	mg/m3	TSCA listed. Chromium(III) acetate, CASRN =1066-30-4, MW = 229.13, MF = Cr.3(C2.H4.O2). LANL MW = 603.3?
721	Chromium(III) chloride, hexahydrate	10060-12-5	2.56	100	128	128	mg/m3	Not found in databases. ChemFinder listed.
722	Chromium(III) fluoride	7788-97-8	1.05	3.14	5.24	52.4	mg/m3	
723	Chromium(III) nitrate	13548-38-4	2.29	6.87	11.4	114	mg/m3	
724	Chromium(III) oxide hydroxide; (Chromium oxyhydroxide)	20770-05-2	0.817	1	7.5	40.9	mg/m3	TSCA listed, no toxicity data.
725	Chromium(III) potassium sulfate (1:1:2), dodecahydrate	7788-99-0	4.8	14.4	40	240	mg/m3	
726	Chromium(VI) hydroxide	12626-43-6	0.005	0.03	0.05	15	mg/m3	Used Cr(VI) limits, not SAR. T-2 changed.
727	Chromous chloride; (Chromium(II) chloride (1:2))	10049-05-5	1.18	3.55	6	500	mg/m3	
728	Chrysene (coal tar volatile)	218-01-9	0.2	0.6	1	80	mg/m3	
729	Cinnamaldehyde	104-55-2	1.25	4	30	500	mg/m3	
730	Cinnamaldehyde, (E); (trans-Cinnamaldehyde)	14371-10-9	0.075	0.25	2	250	ppm	
731	Citric acid	77-92-9	12.5	35	250	500	mg/m3	
732	Citric acid monohydrate	5949-29-1	1.5	4	30	150	mg/m3	
733	Citric acid, trisodium salt, dihydrate	6132-04-3	6	20	125	500	mg/m3	Used Trisodium citrate, CASRN = 68-04-2, SAX TNL000

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
734	Coal tar pitch volatiles; (Particulate polycyclic aromatic hydrocarbons)	65996-93-2	0.2	0.6	12.5	80	mg/m3	
735	Coal tar, aerosol	8007-45-2a	0.1	1.25	7.5	40	mg/m3	
736	Coal tar; (Coal tar volatiles)	8007-45-2b	0.2	80	80	80	mg/m3	
737	Cobalt	7440-48-4	0.1	3	20	20	mg/m3	
738	Cobalt acetate tetrahydrate; (Cobaltous acetate tetrahydrate)	6147-53-1	3	7.5	60	300	mg/m3	
739	Cobalt carbonyl	10210-68-1	0.27	0.27	27	60	mg/m3	
740	Cobalt chloride	7646-79-9	0.0441	0.132	25	500	mg/m3	
741	**Cobalt hydrocarbonyl**	**16842-03-8**	0.0415	0.0415	**0.13**	**0.42**	ppm	**ERPG-2, -3.** T-0, T-1 changed.
742	Cobalt hydroxide	21041-93-0	0.0315	0.0946	0.158	0.75	mg/m3	
743	Cobalt nitrate hexahydrate; (Cobaltous nitrate hexahydrate)	10026-22-9	0.0988	0.296	0.5	98.8	mg/m3	
744	Cobalt nitrate; (Cobalt(II) nitrate)	10141-05-6	0.0621	0.186	12.5	150	mg/m3	
745	Cobalt nitrite	32486-57-0	0.0512	0.154	0.256	1.25	mg/m3	
746	Cobalt oxide	1308-06-1	0.136	0.136	0.136	500	mg/m3	
747	Cobalt sulfate	10124-43-3	0.0526	0.158	0.263	150	mg/m3	
748	Cobalt sulfate heptahydrate; (Cobalt(II) sulfate(1:1), heptahydrate)	10026-24-1	0.0954	0.286	250	250	mg/m3	RTECS listed, no toxicity dara.
749	Cobalt tetraphenylporphine	14172-90-8	10	30	50	250	mg/m3	No toxicity data found.

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
750	Cobalt(II) chloride hexahydrate	7791-13-1	0.0808	0.242	20	80.8	mg/m3	
751	Cobalt(II) oxide	1307-96-6	0.127	0.127	20	75	mg/m3	See also CND020: Co3O4, CND825: Co2O3
752	Cobalt(II) perchlorate, hexahydrate	13478-33-6	0.124	0.373	0.621	60	mg/m3	No pchem data found.
753	Cobalt(II) sulfate hydrate	60459-08-7	0.0587	0.176	0.3	58.7	mg/m3	Not found in databases. Cobalt and inorganic compounds, as Co. T-3 changed.
754	Cobalt, ((2,2'-(1,2-ethanediylbis(nitrilomethylidyne))bis(6-fluorophenolato))(2-)-N,N',O,O')-	62207-76-5	0.15	0.4	3	15	mg/m3	SAX name = "n,n'Ethylene bis(3-fluorosalicylideneiminato)cobalt(II)"
755	Cobaltous bromide; (Cobalt(II) bromide)	7789-43-7	0.0742	0.223	0.371	150	mg/m3	
756	Cobaltous carbonate	513-79-1	0.0404	0.121	0.202	250	mg/m3	
757	Colchicine	64-86-8	0.04	0.125	0.9	0.9	mg/m3	
758	Copper	7440-50-8	1	1	1	100	mg/m3	
759	Copper cyanide	544-92-3	1.41	4.23	7.05	25	mg/m3	
760	Copper hydroxide	20427-59-2	1.54	4.61	7.68	400	mg/m3	
761	Copper nitrate; (Cupric nitrate)	3251-23-8	0.148	0.444	60	295	mg/m3	
762	Copper oxide	1317-39-1	0.113	3.38	15	113	mg/m3	
763	Copper sulfate	7758-98-7	2.51	2.51	6	40	mg/m3	
764	Copper(I) chloride; (Cuprous chloride)	7758-89-6	0.0779	0.234	0.4	60	mg/m3	

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Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
765	Copper(I) sulfide	22205-45-4	1.25	3.76	6.26	30	mg/m3	
766	Copper(II) acetate monohydrate	6046-93-1	0.314	7.5	60	300	mg/m3	
767	Copper(II) carbonate hydroxide (2:1:2)	12069-69-1	0.174	0.522	0.87	174	mg/m3	
768	Copper(II) chloride (1:2); (Cupric chloride)	7447-39-4	0.106	0.317	0.529	3	mg/m3	
769	Copper(II) chloride dihydrate; (Cupric chloride)	10125-13-0	0.134	0.402	0.671	268	mg/m3	See CASRN 7447-39-4, SAX No. CNK500, Copper(II) chloride (1:2).
770	Copper(II) oxalate	814-91-5	2.42	7.25	12.5	242	mg/m3	
771	Copper(II) perchlorate, dihydrate	17031-32-2	4.7	14.1	23.5	23.5	mg/m3	No pchem data found.
772	Copper(II) sulfate pentahydrate	7758-99-8	0.393	1.18	150	200	mg/m3	
773	Copper(II) sulfide	1317-40-4	1.5	4.51	7.52	150	mg/m3	
774	Corn oil	8001-30-7	200	500	500	500	mg/m3	Rat LD50 > 100 mL/kg, TDlo data are inconsistant.
775	Coumaphos	56-72-4	0.05	0.15	30	125	mg/m3	New TLV-TWA, T-0, T-1 changed.
776	Coumarin	91-64-5	0.025	0.075	0.6	125	mg/m3	
777	Coumatetralyl; (Endrocide)	5836-29-3	3	10	16.5	16.5	mg/m3	
778	Creosote (coal tar)	8001-58-9	0.2	0.6	80	80	mg/m3	
779	Cresols	1319-77-3	5	15	24.9	250	ppm	
780	Cresyl violet acetate	10510-54-0	10	30	50	250	mg/m3	Not found in databases

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Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
781	Crimidine; (Castrix)	535-89-7	0.25	0.75	1.2	1.2	mg/m3	
782	Cristobalite	14464-46-1	0.025	0.075	25	25	mg/m3	TLV-TWA changed, mppcc to mg/m3 conversion changed. T-0, T-1, T-2 changed.
783	Crocidolite	12001-28-4	0.005	0.015	5	250	mg/m3	
784	**Crotonaldehyde, cis-**	**4170-30-3**	0.19	**0.19**	**4.4**	**14**	ppm	**New final AEGL-1, -2, -3.**
785	**Crotonaldehyde, trans-**	**123-73-9**	0.06	**0.19**	**4.4**	**14**	ppm	**New final AEGL-1, -2, -3.**
786	Crotonic Acid	3724-65-0	4	12.5	75	400	mg/m3	
787	Crystal violet; (Aniline violet)	548-62-9	0.075	0.25	1.5	150	mg/m3	
788	Cs7SB; (1-(2,2,3,3-tetrafluoropropoxy),3-(4-sec-butylphenoxy)-2-propanol)	308362-88-1	11.1	30	200	500	mg/m3	Not found in databases. MF, MW from MSDS.
789	Cumene hydroperoxide; (Isopropylbenzene hydroperoxide)	80-15-9	1	5	20	20	ppm	Human TClo = 0.02 mg/m3 ignored.
790	**Cumene; (Isopropyl benzene)**	**98-82-8**	50	**50**	**300**	**730**	ppm	**Interim AEGL-1, -2, -3.**
791	Cumenol methylcarbamate, m-; (3-(1-methylethyl)phenol methylcarbamate)	64-00-6	3	10	16	16	mg/m3	
792	Cupferron; (Ammonium-n-nitrosophenylhydroxylamine)	135-20-6	7.5	25	75	75	mg/m3	
793	Cupric acetate, anhydrous; (Copper acetate)	142-71-2	0.143	0.429	3.5	200	mg/m3	
794	Cupric nitrate hemipentahydrate	19004-19-4	3.8	11.4	19	380	mg/m3	
795	Cupric nitrite	14984-71-5	0.122	0.184	0.6	60	mg/m3	CASRN in TSCA, MF = Cu.2 H-N-O2. SAR

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No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
796	Cupric oxide	1317-38-0	0.125	0.376	0.626	125	mg/m3	
797	Cyanamide	420-04-2	2	6	30	35	mg/m3	
798	Cyanic acid; (Hydrogen cyanate)	420-05-3	0.04	0.1	0.75	4	ppm	No toxicity data found, pchem data ex HC&P. Lewis' Toxicology states "strong irritant, lacrimator & vesicant". HHR assigned.
799	Cyanide	57-12-5	5	5	5	25	mg/m3	
800	Cyanoacetamide	107-91-5	6	20	150	500	mg/m3	
801	Cyanogen	460-19-5	10	10	10	15	ppm	
802	Cyanogen bromide	506-68-3	20.4	44	44	44	mg/m3	
803	**Cyanogen chloride**	**506-77-4**	0.02	0.06	**0.4**	**4**	ppm	**ERPG-2, -3.** T-0, T-1 changed.
804	Cyanogen iodide	506-78-5	35	100	180	180	mg/m3	
805	Cyanoguanidene	461-58-5	0.5	1.5	10	200	mg/m3	
806	Cyanophos	2636-26-2	1.25	3.5	25	25	mg/m3	CN limits not used
807	Cyanuric acid; (1,3,5-Triazine-2,4,6-triol)	108-80-5	10	10	25	500	mg/m3	
808	Cyanuric fluoride; (2,4,6-Trifluoro-s-triazine)	675-14-9	0.17	0.17	0.17	74.8	mg/m3	
809	Cyclohexane	110-82-7	300	300	500	***1300***	ppm	See LEL Formattinng Note.

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No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
810	Cyclohexane-1,2-dinitrilotetraacetic acid, trans-; (CyDTA)	13291-61-7	10	30	50	250	mg/m3	No tox data except irritation and physical data from ChemFinder vendor catalog.
811	Cyclohexanediamine, 1,2-	694-83-7	3	10	60	350	mg/m3	Added.
812	Cyclohexanedimethanol, cis and trans, 1,4-	105-08-8	12.5	40	250	500	mg/m3	
813	Cyclohexanol	108-93-0	50	50	50	400	ppm	
814	Cyclohexanone; (Ketohexamethylene)	108-94-1	50	50	50	700	ppm	
815	Cyclohexene	110-83-8	300	300	500	***2000***	ppm	See LEL Formattinng Note.
816	Cycloheximide	66-81-9	0.1	0.3	2	2	mg/m3	
817	**Cyclohexyl isocyanate**	**3173-53-3**	0.004	0.0125	0.02	**0.10**	ppm	Added. **New Interim AEGL-3**
818	Cyclohexyl methyl phosphonic acid	1932-60-1	10	30	50	250	mg/m3	Not found in databases. MSDS pchem data.
819	**Cyclohexylamine**	**108-91-8**	1.8	**1.8**	**8.6**	**30**	ppm	**Final AEGL-1, -2, -3**
820	Cyclohexylamino)-1-propanesulfonic acid, 3-(; (CAPS)	1135-40-6	1.25	4	25	125	mg/m3	
821	Cyclohexylethanol, 2-	4442-79-9	4	10	75	400	mg/m3	
822	Cyclooctadiene, 1,5-	111-78-4	100	300	***2000***	***10000***	ppm	See LEL Formattinng Note.
823	Cyclooctane	292-64-8	5	15	100	500	ppm	In HC&P, ChemFinder, no toxicity data. "Y" corrected, all Ts changed.
824	Cyclooctatetraene, 1,3,5,7-	629-20-9	65000	65000	230000	400000	ppm	TSCA listed. Simple asphyxiant.

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
825	Cyclooctene, cis-	931-87-3	3.5	10	60	350	mg/m3	TSCA listed, no toxicity data, assumed HHR =3.
826	Cyclopentane	287-92-3	600	***1800***	***3840***	***15000***	ppm	See LEL Formattinng Note.
827	Cyclopentanone	120-92-3	25	25	125	600	ppm	
828	Cyclopropane	75-19-4	200	600	***4000***	***60000***	ppm	See LEL Formattinng Note.
829	Cyclotetramethylene tetranitramine; (HMX)	2691-41-0	0.04	0.125	0.75	500	mg/m3	
830	Cyclotol; (RDX-TNT mixture)	8065-53-0	0.2	3	250	250	mg/m3	2,4,6-Trinitrotoluene mixed with Hexahydro-1,3,5-trinitro-1,3,5-triazine. See PBX (RTECS tox data).
831	Cyclotrimethylenetrinitramine; (RDX or Cyclonite)	121-82-4	0.5	3	40	40	mg/m3	CASRN also used for RDX and HMX mixtures. T-2 changed.
832	Cytidine monophosphate; (Cytidine 5-monophosphate free acid)	63-37-6	7.5	25	150	500	mg/m3	
833	Dawsonite; (Crystalline dehydroxy sodium aluminum, carbonate)	12011-76-6	3.5	10	150	500	mg/m3	**SAR**
834	DDD; (1,1-bis(4-Chlorophenyl)-2,2-dichloroethane)	72-54-8	12.5	35	250	500	mg/m3	
835	DDE; (2,2-bis(p-Chlorophenyl)-1,1-dichloroethylene)	72-55-9	4	12.5	75	400	mg/m3	
836	DDT; (Dichlorodiphenyltrichloroethane)	50-29-3	1	1	2	500	mg/m3	
837	DEAE Sepharose CL-6B	57407-08-6	10	30	50	250	mg/m3	Not found in databases. CASRN changed from 62610-50-8 per LLNL.
838	Decaborane	17702-41-9	0.3	0.75	10	15	mg/m3	
839	Decafluoropentane, 1,1,1,2,3,4,4,5,5,5-	138495-42-8	200	200	400	1250	ppm	MSDS HHR, exposure limits, toxicity data. T-3 changed.

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
840	Decahydronaphthalene	91-17-8	0.5	1.5	10	75	ppm	
841	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"
842	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"
843	Decamethylcyclopentasiloxane	541-02-6	15	50	350	500	mg/m3	Synonym = Silicone (several formulations).
844	Decanal	112-31-2	2.5	7.5	50	250	ppm	
845	Decane	124-18-5	0.06	0.2	1.25	***5000***	ppm	See LEL Formattinng Note.
846	Decene, 1-, homopolymer, hydrogenated	68037-01-4	10	30	50	250	mg/m3	
847	Decyl alcohol; (1-Decanol)	112-30-1	4	12.5	75	500	mg/m3	
848	Demeton	8065-48-3	0.1	0.15	2	10	mg/m3	SAX name = "Demeton-o+demeton-s"; MW is 258.34 in some references.
849	Demeton-s-methyl	919-86-8	0.05	0.15	5	200	mg/m3	
850	Deoxyribonucleac acid; (DNA)	9007-49-2	12.5	35	250	500	mg/m3	No pchem data found.
851	Deuterium	7782-39-0	***65000***	***65000***	***230000***	***400000***	ppm	See LEL Formattinng Note.
852	Deuterium oxide; (Heavy water)	7789-20-0	2000	***6000***	***40000***	***200000***	ppm	See LEL Formattinng Note.
853	Deuterochloric acid; (Deuterium chloride)	7698-05-7	2	2	5	50	ppm	
854	Dextran	9004-54-0	0.35	1	6	500	mg/m3	

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No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
855	Dextran sulfate sodium	9011-18-1	15	40	300	500	mg/m3	
856	Di(ethylene glycol) diacrylate	4074-88-8	1	3	20	100	mg/m3	
857	Di-2-ethylhexyl adipate	103-23-1	50	150	500	500	mg/m3	
858	Diacetoxydibutyl stannane	1067-33-0	0.296	0.592	7.5	73.9	mg/m3	
859	Diacetyl peroxide; (Acetyl peroxide)	110-22-5	7.5	20	150	500	mg/m3	
860	Dialifor	10311-84-9	1	3	5	5	mg/m3	
861	Diallyl phthalate	131-17-9	1	1	300	300	mg/m3	
862	Diallyldimethylammonium chloride	7398-69-8	25	75	500	500	mg/m3	
863	Diallyldimethylammonium chloride polymer	26062-79-3	12.5	35	250	500	mg/m3	
864	Diaminodiphenyl ether, 4,4'-; (4,4'-Oxydianiline)	101-80-4	0.5	1.5	10	300	mg/m3	
865	Diaminodiphenylsulfone; (4,4'-Sulfonyldianiline)	80-08-0	1	3	20	400	mg/m3	
866	Diaminodipropylamine, 3,3-; (Aminobis(propylamine))	56-18-8	0.6	1.5	12.5	60	ppm	
867	Diaminopyridine, 2,6-	141-86-6	0.4	1.25	7.5	40	mg/m3	
868	Diammonium molybdate	27546-07-2	8.81	8.81	8.81	500	mg/m3	TSCA listed, no pchem data. Assumed soluble compound.
869	Diamond	7782-40-3	7.5	20	150	500	mg/m3	
870	Dianisidine dihydrochloride, o-; (3,3'-Dimethoxybenzidine dihydrochloride)	20325-40-0	0.1	0.35	2.5	7.5	mg/m3	

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
871	Diatomaceous earth (flux calcinated; Filter agent, celite)	68855-54-9	0.3	0.9	1.5	500	mg/m3	HSDB, TSCA listed.
872	Diatomaceous earth; (Silica-amorphous diatomaceous earth (uncalcined))	61790-53-2	6	18	30	500	mg/m3	PEL-TWA = 80 mg/m3 / % SIO2.
873	Diatomaceous silica, calcined	91053-39-3	0.3	0.9	1.5	500	mg/m3	TSCA listed. MAK for Silica-amorphous diatomaceous earth (calcined).
874	Diazabicyclo(2,2,2)octane, 1,4-	280-57-9	1	3	20	500	mg/m3	
875	Diazabicyclo(5.4.0)undec-7-ene, 1,8-	6674-22-2	1.5	5	35	150	mg/m3	TSCA listed, no toxicity data found. MSDS HHR = 3.
876	Diazoacetic acid; (Ethyl diazoacetate)	623-73-4	0.2	0.6	4	150	mg/m3	
877	Diazomethane	334-88-3	0.2	0.6	2	2	ppm	
878	Dibenza(a,h)anthracene	53-70-3	0.00075	0.0025	0.015	15	mg/m3	
879	Dibenzo(a,e)pyrene; (Naphtho(1,2,3,4-def)chrysene)	192-65-4	0.005	0.015	0.1	0.5	mg/m3	
880	Dibenzofuran	132-64-9	10	30	50	250	mg/m3	
881	Dibenzo-p-dioxin	262-12-4	1.5	4	30	500	mg/m3	
882	**Diborane**	**19287-45-7**	0.1	0.15	**1.0**	**3.7**	ppm	**Final AEGL-2, -3.**
883	Dibromo-3-chloropropane, 1,2-; (DBCP)	96-12-8	0.001	0.075	0.5	15	ppm	
884	Dibromo-4-nitrophenol, 2,6-	99-28-5	0.04	0.1	0.75	4	ppm	
885	Dibromochloromethane; (Chlorodibromomethane)	124-48-1	2	6	40	150	mg/m3	
886	Dibromohexane, 1,6-	629-03-8	1	3.5	20	100	mg/m3	

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
887	Dibromomethane; (Methylene dibromide)	74-95-3	10	30	200	1250	ppm	Duplicate deleted. Original units changed to ppm. All Ts changed.
888	Dibromophenol, 2,6-	608-33-3	0.5	0.5	2.5	2.5	mg/m3	**SAR**
889	Dibromopropane, 1,3-	109-64-8	2	6	40	200	mg/m3	
890	Dibromotetrafluoroethane; (Halon 2402)	124-73-2	150	500	3500	15000	ppm	
891	Dibutyl (2-ethylhexyl)phosphate	z-0011	0.2	0.6	0.7	0.7	ppm	**SAR**
892	Dibutyl butylphosphonate	78-46-6	0.04	0.125	1	5	ppm	
893	Dibutyl peroxide, tert-	110-05-4	1.25	4	25	400	ppm	
894	Dibutyl phosphate	107-66-4	1	2	5	30	ppm	
895	Dibutyl phosphite	1809-19-4	12.5	40	250	500	mg/m3	
896	Dibutyl phthalate	84-74-2	5	15	500	500	mg/m3	
897	Dibutylboron triflate; (Dibutylboryl trifluoromethanesulfonate)	60669-69-4	12	36.1	60.1	500	mg/m3	Not found in databases, no useful information in MSDS.
898	Dibutylhexamethylenediamine, N,N'-	4835-11-4	1	3	22	75	mg/m3	
899	Dichloran; (2,6-Dichloro-4-nitroaniline; Resisan)	99-30-9	0.004	0.0125	0.075	500	mg/m3	
900	Dichloro(4,4-dimethylzinc - 5((((methylamino)carbonyl) oxy)-imino)pentanenitrile), (trans-4)-; (Ethienocarb)	58270-08-9	1.5	5	9	9	mg/m3	
901	**Dichloro-1,1,1-trifluoroethane, 2,2-; (HCFC-123)**	**306-83-2**	50	150	**1000**	**10000**	ppm	ERPG-2, -3

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
902	**Dichloro-1-fluoroethane, 1,1-; (HCFC-141b; Freon 141)**	**1717-00-6**	500	**1000**	**1700**	**3000**	ppm	**Final AEGL-1, -2, -3.**
903	Dichloro-2-butene 1,4-	764-41-0	0.005	0.015	20	125	ppm	
904	Dichloro-2-propanol, 1,3-	96-23-1	6	15	50	50	ppm	
905	Dichloro-2-trifluoromethylbenzimidazole, 4,5-; (Chloroflurazole)	3615-21-2	2.5	7.5	13	13	mg/m3	
906	Dichloroacetic acid	79-43-6	0.5	10	75	200	ppm	
907	**Dichloroacetyl chloride**	**79-36-7**	0.0125	**0.040**	**1.60**	**52**	ppm	**Interim AEGL-1, -2, -3.**
908	Dichloroacetylene	7572-29-4	0.5	1.5	4	4	ppm	T-0, T-1 changed.
909	Dichloroamine; (Chlorimide)	3400-09-7	0.25	0.75	6	30	ppm	
910	Dichlorobenzene, m-	541-73-1	0.75	2	15	75	ppm	
911	Dichlorobenzene, o-	95-50-1	25	50	50	200	ppm	
912	Dichlorobenzene, p-	106-46-7	10	10	30	150	ppm	T-0, T-1, T-2 changed.
913	Dichlorobenzidene 3,3'-	91-94-1	0.2	0.6	4	200	ppm	
914	Dichlorocyclohexane, 1,1-	2108-92-1	0.25	0.75	6	30	ppm	**SAR**
915	Dichlorocyclohexane, trans-1,2-	822-86-6	75	250	500	500	mg/m3	In H&N, used chlorocyclohexane, CASRN 542-18-7
916	Dichlorodifluoromethane; (Freon 12, CFC 12)	75-71-8	1000	3000	10000	15000	ppm	
917	Dichloroethanol acetate, 1,2-	10140-87-1	0.35	1	1.71	6	ppm	

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
918	Dichloroethyl ether; (1,1'-Oxybis(2-chloro)ethane)	111-44-4	5	10	25.7	100	ppm	
919	Dichloroethylaluminum	563-43-9	9.41	9.41	9.41	9.41	mg/m3	Alkylaluminums
920	Dichloroethylbenzene; (Ethyldichlorobenzene)	1331-29-9	20	60	500	500	mg/m3	
921	Dichloroethylene, 1,2-	540-59-0	200	600	1000	1000	ppm	
922	**Dichloroethylene, cis-1,2-**	**156-59-2**	140	**140**	**500**	**850**	ppm	**Interim AEGL-1, -2, -3.**
923	**Dichloroethylene, cis-and trans-1,2-**	**156-60-5**	200	**280**	**1000**	**1700**	ppm	**Interim AEGL-1, -2, -3. AEGL name used.**
924	Dichlorofluoromethane; (Freon 21, CFC 21)	75-43-4	10	30	100	5000	ppm	PEL-TWA not used.
925	Dichlorohexane, 1,2-	2162-92-7	0.25	0.75	6	30	ppm	**SAR**
926	Dichloroisopropyl ether	108-60-1	3.5	10	75	350	ppm	
927	Dichloromethane-d2	1665-00-5	25	200	750	***4000***	ppm	Not found in data bases. Used TEELs from methylene chloride, CASRN 75-09-2, MSDS data. See LEL Formattinng Note.
928	Dichloromethoxy ethane; (bis(2-Chloroethoxy)methane)	111-91-1	0.6	2	6	6	ppm	
929	**Dichloromethyl ether; (bis(Chloromethyl)ether)**	**542-88-1**	0.001	0.006	**0.044**	**0.18**	ppm	**New interim AEGL-2, -3. ERPG-2, -3.** T-1, T-2, T-3 changed.
930	Dichloromethylphenylsilane	149-74-6	1	3	20	20	mg/m3	
931	Dichloromethylphosphine; (Methylphosphonous dichloride)	676-83-5	0.1	0.3	2	10	ppm	

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No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
932	Dichlorophene	97-23-4	6	15	125	500	mg/m3	
933	**Dichlorophenol, 2,4-**	**120-83-2**	0.2	**0.2**	**2**	**20**	ppm	**ERPG-1, -2, -3**
934	Dichlorophenol, 2,6-	87-65-0	1.5	5	35	150	mg/m3	
935	Dichlorophenoxyacetic acid, 2,4-; (2,4-D)	94-75-7	10	10	40	100	mg/m3	
936	Dichloropropane	26638-19-7	10	300	400	400	ppm	Used Propylene dichloride (78-87-5).
937	Dichloropropane, 1,1-	78-99-9	4	12.5	75	400	ppm	Toxicity data used.
938	Dichloropropane, 1,2-; (Propylene dichloride)	78-87-5	10	300	400	400	ppm	Revised TLV-TWA, PEL-TWA ignored.
939	Dichloropropane, 1,3-	142-28-9	5	15	100	350	ppm	Toxicity data used.
940	Dichloropropane, 2,2-	594-20-7	4	12.5	75	400	ppm	Toxicity data used.
941	Dichloropropene, 1,1-	563-58-6	1	3	5	200	ppm	
942	Dichloropropene, 1,2-	563-54-2	1.5	5	40	200	ppm	
943	Dichloropropene, 1,3-	542-75-6	1	12.5	50	50	ppm	
944	Dichloropropene, 2,3-	78-88-6	0.5	1.5	10	50	ppm	
945	Dichloropropene, cis-1,2-; (1,2-dichloro-1-propene, (Z)-)	6923-20-2	1.5	5	40	200	ppm	
946	Dichloropropene, cis-1,3-	10061-01-5	1	12.5	50	50	ppm	Mixture of cis- and trans- has CASRN 542-75-6.
947	Dichloropropene, trans-1,3-	10061-02-6	1	1.5	10	50	ppm	Not found, no toxicity data. Used cis-1,3 isomer (DGH200).

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
948	**Dichlorosilane**	**4109-96-0**	0.3	**0.90**	**11**	**50**	ppm	**New interim AEGL-1, -2, -3.** All Ts changed.
949	Dichlorotetrafluoroethane	1320-37-2	1000	3000	15000	15000	ppm	See CASRN = 76-14-2; RTECS toxicity data differ. T-2 changed.
950	Dichlorotetrafluoroethane, 1,2-; (Freon 114, CFC 114)	76-14-2	1000	3000	15000	15000	ppm	See CASRN 1320-37-2; RTECS toxicity data differ. T-2 changed.
951	Dichlorovos; (Dichlorvos)	62-73-7	1	1	2.21	100	ppm	
952	Dicrotophos	141-66-2	0.05	0.15	0.9	40	mg/m3	
953	Dicyclohexano-18-crown-6	16069-36-6	0.2	0.6	4	75	mg/m3	
954	Dicyclohexyl; (Cyclohexylcyclohexane)	92-51-3	7.5	25	150	500	mg/m3	No toxicity data found. Assumed HHR = 2.
955	Dicyclohexylcarbodiimide	538-75-0	0.0035	0.01	0.06	100	mg/m3	
956	**Dicyclopentadiene**	**77-73-6**	0.01	**0.01**	**5**	**75**	ppm	**ERPG-1, -2, -3.**
957	Didecyldimethylammonium chloride	7173-51-5	1.5	5	35	35	mg/m3	Added, no pchem data found.
958	Dieldrin	60-57-1	0.25	0.75	2.5	50	mg/m3	
959	Diesel fuel marine; (Diesel fuel No. 4)	z-0012	100	350	500	500	mg/m3	
960	Diesel fuel marine; (Fuel oil No.2)	68476-30-2	100	100	100	500	mg/m3	
961	Diesel fuels	68334-30-5	100	100	500	500	mg/m3	
962	Diethanolamine	111-42-2	2	150	300	300	mg/m3	

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
963	Diethenylbenzene, polymer with ethenylbenzene and ethenylethylbenzene, sulfonated; (Dowex 50-X8 resin)	69011-20-7	10	30	50	250	mg/m3	No toxicity or pchem data found.
964	Diethoxydimethylsilane	78-62-6	5	15	100	500	ppm	T-0, T-1 changed.
965	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
966	**Diethyl benzene isomers; (Dowtherm J)**	**25340-17-4**	5	**10**	**100**	**500**	ppm	**New ERPG-1, -2, -3.**
967	Diethyl carbonate	105-58-8	3	7.5	60	300	ppm	
968	Diethyl chlorophosphate	814-49-3	0.4	1	8	8	mg/m3	
969	Diethyl ethylphosphonate	78-38-6	2	6	40	500	mg/m3	New RTECS toxicity data added.
970	Diethyl malonate; (Ethyl malonate)	105-53-3	10	30	200	1000	ppm	
971	Diethyl mercury	627-44-1	0.0129	0.0387	0.0516	2.58	mg/m3	As Hg, alkyl compounds.
972	Diethyl methylphosphonate; (DEMP)	683-08-9	7.5	25	200	500	mg/m3	
973	Diethyl oxalate	95-92-1	1.5	5	35	150	mg/m3	
974	Diethyl phosphite	762-04-9	15	50	350	500	mg/m3	
975	Diethyl phthalate; (Ethyl phthalate)	84-66-2	5	15	100	500	mg/m3	
976	Diethyl pyrocarbonate	1609-47-8	10	30	200	500	mg/m3	

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 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
977	Diethyl sulfate	64-67-5	0.075	0.2	1.5	25	ppm	Toxicity data changed,
978	Diethyl tartrate	87-91-2	10	30	50	250	mg/m3	TSCA listed, no toxicity data found. No HHR found.
979	Diethyl telluride	627-54-3	0.1	0.3	6	10	mg/m3	Added.
980	Diethylamine	109-89-7	15	15	75	200	ppm	T-2 changed.
981	Diethylaminoacetone	1620-14-0	0.5	1.5	10	50	ppm	**SAR**
982	Diethylaminopropylamine	104-78-9	2	6	50	250	mg/m3	
983	Diethylaniline, N,N-	91-66-7	3	10	60	350	mg/m3	
984	Diethylbenzene, m-	141-93-5	40	125	500	500	mg/m3	
985	Diethylbenzene, o-	135-01-3	1.5	5	35	500	mg/m3	
986	**Diethyldichlorosilane**	**1719-53-5**	0.3	**0.9**	**11**	**50**	ppm	**New interim AEGL-1, -2, -3.** Added.
987	Diethylene glycol	111-46-6	2.31	40	200	200	ppm	
988	Diethylene glycol di(3-aminopropyl) ether; (Polyglycol diamine)	4246-51-9	15	50	350	500	mg/m3	
989	Diethylene glycol diacetate; (2,2'-oxybisethanol diacetate)	628-68-2	100	300	500	500	mg/m3	
990	Diethylene glycol dimethyl ether; (Bis(2-methoxy ethyl)ether)	111-96-6	5	15	25	400	ppm	
991	Diethylene glycol hexyl ether; (n-Hexyl carbitol)	112-59-4	7.5	25	150	500	mg/m3	
992	Diethylenetriamine	111-40-0	1	1	1.25	100	ppm	

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
993	Diethylenetriaminepentaacetic acid	67-43-6	2	6	50	250	mg/m3	T-2, T-3 changed.
994	Diethylethanolamine, N,N-; (Diethylaminoethanol)	100-37-8	10	10	20	100	ppm	2007 GOEV, RTECS. T-3 changed.
995	Diethylphosphatoethyltriethoxy silane	757-44-8	75	200	500	500	mg/m3	
996	Diethylstilbestrol; ((E)-4,4'-(1,2-diethyl-1,2-ethenediyl)bisphenol)	56-53-1	0.025	0.075	0.6	15	mg/m3	
997	Diethylthiourea, N,N'-	105-55-5	0.6	1.5	12.5	125	mg/m3	
998	Diethylurea, 1,3-	623-76-7	5	15	100	600	ppm	
999	Diethylzinc	557-20-0	1.89	3.78	3.78	10	ppm	Limits and LC50 based on SAX Safety Profile.
1000	**Difluoroethane; (1,1-Difluoroethane; HFC 152a)**	**75-37-6**	1000	***10000***	***15000***	***25000***	ppm	**ERPG-1, -2, -3.** See LEL Formattinng Note.
1001	Digitoxin	71-63-6	0.0075	0.025	0.18	0.25	mg/m3	
1002	Diglycidyl Ether	2238-07-5	0.01	10	10	10	ppm	T-0, T-1 changed.
1003	Diglycol monoethyl ether acetate; (Carbitol acetate)	112-15-2	40	125	500	500	mg/m3	
1004	Digoxin	20830-75-5	0.04	0.125	0.2	0.35	mg/m3	
1005	Dihexyl((diethylcarbamoyl)methyl)phosphonate; (Dihexyl-N,N-diethylcarbamoylmethyl phosphonate)	7369-66-6	4	12.5	75	400	mg/m3	
1006	Dihydro-2(3H)-furanone; (4-Butanolide)	96-48-0	2	6	40	500	mg/m3	
1007	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.

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1008	Dihydro-3-(Nonenyl)-2,5-furandione	28928-97-4	10	30	50	250	mg/m3	TSCA, H&N listed, MFs differ, no toxicity data found, assumed nonvolatile.
1009	Dihydro-4-methyl furan, 2,3-	34314-83-5	1.5	5	35	150	mg/m3	No toxicity data found, based on methylfuran
1010	Dihydrogen hexachloroplatinate; (Chloroplatinic acid)	16941-12-1	0.0042	0.0126	1.5	8.4	mg/m3	Platinum soluble salts limits used.
1011	Dihydroxy-1,3-indandione, 2,2-; (Ninhydrin monohydrate)	485-47-2	0.3	1	6	35	mg/m3	
1012	Dihydroxy-2-butene, 1,4-; (2-Butene-1,4-diol)	110-64-5	1.5	4	30	150	ppm	
1013	Dihydroxyanthraquinone, 1,8-	117-10-2	25	75	200	200	mg/m3	
1014	Dihydroxybenzoic acid, 2,4-	89-86-1	1	3	20	350	mg/m3	Mouse LD50 > 800 mg/kg
1015	Dihydroxynaphthalene-2,7-disulfonic acid, disodium salt dihydrate, 4,5-	5808-22-0	10	30	50	250	mg/m3	Chemfinder MF, MW. No toxicity data, MSDS pchem data.
1016	Diiodomethane; (Methylene iodide)	75-11-6	75	200	500	500	mg/m3	
1017	Diisoamylamine	544-00-3	5	15	25	125	ppm	TSCA listed. No toxicity or HHR found.
1018	Diisobutyl ketone	108-83-8	50	50	50	500	ppm	
1019	Diisobutylaluminum hydride; (Diisobutylhydroaluminum)	1191-15-7	10.5	31.6	52.7	1000	ppm	
1020	Diisobutylamine	110-96-3	0.2	0.6	4	20	ppm	
1021	Diisooctyl acid phosphate	27215-10-7	7.5	25	150	500	mg/m3	Added. No toxicity data found. Used default rat oral LD50 based on SAX HR.
1022	Diisopropyl methylphosphonate	1445-75-6	3.5	10	75	350	mg/m3	

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1023	Diisopropyl peroxydicarbonate	105-64-6	7.5	25	150	500	mg/m3	
1024	Diisopropylamine	108-18-9	5	6	40	200	ppm	
1025	Diisopropylamino)ethyl chloride hydrochloride, 2-(-	4261-68-1	0.0125	0.035	0.25	1.25	mg/m3	
1026	Diisopropylaminoethanol, 2-; (N,N-Diisopropyl ethanolamine)	96-80-0	2.5	7.5	50	250	mg/m3	
1027	Diisopropylaniline, 2,6-	24544-04-5	35	100	500	500	mg/m3	
1028	Diisopropylbenzene, 1,3-	99-62-7	150	500	500	500	mg/m3	
1029	Diisopropylethylamine, N,N-	7087-68-5	2	6	40	200	ppm	TSCA, HC&P, H&N listed, no toxicity data. HHR ex MSDS.
1030	Diisopropylfluorophosphate; (Phosphorofluoridic acid, bis(1-methylethyl) ester)	55-91-4	0.75	2	3.6	3.6	mg/m3	
1031	Diisopropylnaphthalene; (Bis(isopropyl)naphthalene)	38640-62-9	12.5	40	300	500	mg/m3	
1032	**Diketene; (Ketene dimer)**	**674-82-8**	0.35	**1**	**6**	**18**	ppm	**New interim AEGL-2, -3. ERPG-1, -2, -3.** T-0, T-1 changed.
1033	Dilauroyl peroxide	105-74-8	0.003	0.01	0.06	0.35	mg/m3	
1034	Dimefox; (bis(Dimethylamido)fluorophosphate))	115-26-4	0.2	0.6	1	1	mg/m3	
1035	Dimethoate	60-51-5	6	15	30	30	mg/m3	
1036	Dimethoxybenzene, 1,3-	151-10-0	3.5	10	75	400	mg/m3	
1037	Dimethoxybenzene, o-	91-16-7	3.5	10	75	400	mg/m3	

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1038	Dimethoxybenzidene 3,3'-; (o-Dianisidine)	119-90-4	1.25	4	25	500	mg/m3	
1039	Dimethoxybutane, 1,3-	10143-66-5	7.5	25	150	750	ppm	
1040	Dimethoxybutane, 2,2-	3453-99-4	7.5	20	150	750	ppm	Not found. Based on 1,3-dimethoxybutane.
1041	Dimethoxydiphenylsilane	6843-66-9	0.15	0.5	3.5	15	mg/m3	Rat LC > 42 mg/m3
1042	Dimethoxyethane, 1,2-	110-71-4	3.5	10	75	1000	ppm	
1043	Dimethoxypropane, 2,2-	77-76-9	0.4	1.25	7.5	40	ppm	No toxicity data found.
1044	Dimethyglyoxime; (Diacetyldioxime)	95-45-4	2	6	40	200	mg/m3	
1045	Dimethyl butane, 2,2-	75-83-2	500	510	510	***2500***	ppm	See LEL Formattinng Note.
1046	Dimethyl carbamoyl chloride	79-44-7	0.005	0.015	4	100	ppm	New TLV-TWA. T-0, T-1 changed.
1047	Dimethyl carbonate	616-38-6	15	40	300	1500	ppm	
1048	Dimethyl cyclopentanol, 1,3-	19550-46-0	10	30	50	250	mg/m3	Not found in databases. MF, MW from ChemFinder.
1049	**Dimethyl disulfide**	**624-92-0**	0.01	**0.01**	**50**	**250**	ppm	**ERPG-1, -2, -3** New TLV-TWA, T-0 changed.
1050	Dimethyl hydrogen phosphite	868-85-9	20	60	400	500	mg/m3	
1051	Dimethyl mercury	593-74-8	0.0115	0.0345	0.046	2.3	mg/m3	Alkyl mercury compound, as Hg.
1052	Dimethyl methylphosphonate; (DMMP)	756-79-6	100	350	500	500	mg/m3	
1053	Dimethyl phosphorochloridothioate	2524-03-0	1.5	4	32	150	mg/m3	

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1054	Dimethyl siloxane; (Dimethylpolysiloxane; Syltherm XLT; Syltherm 800; Silicone 360)	63148-62-9	15	50	350	500	mg/m3	Several RTECS entries for this CASRN
1055	**Dimethyl sulfate**	**77-78-1**	0.024	**0.024**	**0.12**	**1.6**	ppm	**Interim AEGL-1, -2, -3.**
1056	**Dimethyl sulfide; (2-Thiopropane)**	**75-18-3**	10	150	**1000**	***5000***	ppm	**ERPG-2, -3, odor-based ERPG-1 ignored.** See LEL Formattinng Note.
1057	Dimethyl sulfone	67-71-0	20	60	400	500	mg/m3	Rat LD50 > 5 g/kg
1058	Dimethyl sulfoxide; (DMSO)	67-68-5	250	250	250	2000	ppm	
1059	Dimethyl(1-phenylethyl)benzene	40766-31-2	4	12.5	75	500	mg/m3	
1060	Dimethyl(polysiloxane); (Polydimethylsiloxane, silanol terminated; Dimethylsiloxane, poly, hydroxy end-blocked)	70131-67-8	250	500	500	500	mg/m3	Assumed density, rat oral LD50 > 64 mL/kg
1061	Dimethyl-1,3-dioxolane-4-methanol, 2,2-	100-79-8	5	15	100	500	ppm	
1062	Dimethyl-1,3-propanediamine, N,N-; (1-Amino-3-dimethylaminopropane)	109-55-7	2.5	7.5	50	200	ppm	
1063	Dimethyl-1-butanamine, N,N-	927-62-8	200	500	500	500	mg/m3	MSDS toxicity data inconsistent with RTECS.
1064	Dimethyl-2-pentene, (E)-3,4-	4914-92-5	0.4	1.25	7.5	40	ppm	No toxicity data found, estimated HHR.
1065	Dimethyl-3-nitrobenzene, 1,2-	83-41-0	10	30	50	250	mg/m3	TSCA, HC&P listed, no toxicity data. MSDS pchem data differs.
1066	Dimethyl-3-pentanone, 2,4-	565-80-0	5	15	100	1000	ppm	
1067	Dimethyl-5-phenylphenazinium chloride, 3,7-diamino-2,8-; (Safranine; Gossypimine)	477-73-6	0.25	0.75	5	25	mg/m3	No pchem data found.
1068	Dimethylacetamide, N,N-	127-19-5	10	75	300	300	ppm	

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Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1069	Dimethylacrylamide, N,N-	2680-03-7	0.6	1.5	12.5	200	mg/m3	No pchem data found
1070	**Dimethylamine**	**124-40-3**	10	**10**	**66**	**250**	ppm	**New interim AEGL-1, -2, -3. ERPG-1, -2, -3;** odor-based ERPG-1 ignored. T-1, T-2, T-3 changed.
1071	Dimethylamino)benzaldehyde, p-(	100-10-7	7.5	25	150	250	mg/m3	
1072	Dimethylamino)phenyl)azo)benzenesulfonic acid, sodium salt, P-((P-(; (Methyl orange,sodium salt)	547-58-0	0.25	0.75	5	25	mg/m3	SAX, RTECS, HC&P, H&N all have H14, but HSDB, TSCA have H15 in MF
1073	Dimethylaminoazobenzene, 4-	60-11-7	15	50	75	75	mg/m3	
1074	Dimethylaminoethanol, 2-	108-01-0	12.5	35	150	150	ppm	
1075	Dimethylaminoethyl chloride hydrochloride, 2-	4584-46-7	0.6	2	15	100	mg/m3	
1076	Dimethylammonium N,N-dimethylcarbamate	4137-10-4	1.5	5	35	150	mg/m3	Not listed in databases, MSDS pchem data, no HHR found.
1077	Dimethylaniline, N,N-	121-69-7	5	10	10	100	ppm	
1078	Dimethylbenzidene 3,3'-; (o-Tolidine)	119-93-7	0.1	0.3	2	100	mg/m3	
1079	Dimethylbutyric acid, 2,2-	595-37-9	7.5	25	150	500	mg/m3	No toxicity data found. MSDS pchem and HHR data.
1080	**Dimethylchlorosilane; (Chlorodimethylsilane)**	**1066-35-9**	0.6	**1.8**	**22**	**100**	ppm	**New interim AEGL-1, -2, -3.** Added.
1081	Dimethylcyclohexane, cis-1,4-	624-29-3	0.75	2	15	75	ppm	In H&N, based on cyclohexane
1082	Dimethyldecane, 2,2-	17302-37-3	50.3	50.3	259	***1250***	ppm	See LEL Formattinng Note.
1083	**Dimethyldichlorosilane**	**75-78-5**	0.3	**0.90**	**13**	**53**	ppm	**Interim AEGL-1, -2, -3.**

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No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1084	Dimethyldicyclopentadiene	26472-00-4	7.5	25	200	500	mg/m3	
1085	Dimethyldimethoxysilane	1112-39-6	20	60	400	500	mg/m3	
1086	Dimethylethyl hydroperoxide, 1,1-; (tert-Butylhydroperoxide)	75-91-2	0.75	2.5	15	50	ppm	
1087	**Dimethylformamide, N,N-**	**68-12-2**	2	**2**	**91**	**530**	ppm	**Interim AEGL-2, -3. ERPG-1, -2, -3.** AEGL-3 values changed.
1088	Dimethylheptane, 2,2-	1071-26-7	66.8	66.8	343	***1500***	ppm	In HC&P; NIOSH limits for Alkanes used. See LEL Formattinng Note.
1089	Dimethylhexane, 3,3-	563-16-6	75	75	386	***2000***	ppm	In HC&P; NIOSH limits for Alkanes used. See LEL Formattinng Note.
1090	**Dimethylhydrazine, 1,1-**	**57-14-7**	0.5	0.5	**3.0**	**11**	ppm	**Final AEGL-2, -3.** 120-min REL-C ignored.
1091	**Dimethylhydrazine, 1,2-**	**540-73-8**	0.6	1.5	**3.0**	**11**	ppm	**Final AEGL-2, -3.**
1092	Dimethylimidizole, 1,2-	1739-84-0	4	12.5	75	400	mg/m3	
1093	Dimethylisopropylamin, n,n-	996-35-0	1	3	5	25	mg/m3	
1094	Dimethylnonane, 4,5.	17302-23-7	125	250	250	250	ppm	Not found in databases.
1095	Dimethyloctane, 3,5-	15869-93-9	100	200	500	***2500***	ppm	Based on octane-butane ratio. See LEL Formattinng Note.
1096	Dimethylphenol, 2,4-; (2,4-Xylenol)	105-67-9	0.3	1	6	500	mg/m3	
1097	Dimethylphenol, 2,6-; (2,6-Xylenol)	576-26-1	0.75	2	15	125	mg/m3	
1098	Dimethylphthalate	131-11-3	5	15	75	500	mg/m3	

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No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1099	Dimethylpolysilane; (Poly(dimethylsilane))	28883-63-8	0.75	2.5	10	25	mg/m3	Synonym added. Not found in databases, in ChemFinder, no pchem data.
1100	Dimethyl-p-phenylenediamine, N,N-	99-98-9	0.025	0.075	0.13	1	mg/m3	
1101	Dimethylpropane, 2,2-; (Neopentane)	463-82-1	610	610	610	***50000***	ppm	Used pentane limits. See LEL Formattinng Note.
1102	Dimethylpyridine, 2,4-; (2,4-Lutidine)	108-47-4	0.2	0.6	4	20	ppm	T-0, T-1 changed.
1103	Dimethyltetramethoxydisiloxane, 1,3-	18186-97-5	10	30	50	250	mg/m3	Not found in databases.
1104	Dimetilan	644-64-4	5	15	25	25	mg/m3	
1105	Di-N-amylamine	2050-92-2	0.06	0.2	1.25	6	ppm	
1106	Di-n-butylamine	111-92-2	0.25	0.75	5	50	ppm	
1107	Dinitraniline orange; (Hansa orange RN)	3468-63-1	10	30	50	250	mg/m3	No data found.
1108	Dinitroaniline, 2,4-	97-02-9	0.035	0.1	0.75	12.5	mg/m3	
1109	Dinitrobenzene, m-	99-65-0	1	3	5	50	mg/m3	
1110	Dinitrobenzene, o-	528-29-0	1	3	5	50	mg/m3	
1111	Dinitrobenzene, p-	100-25-4	1	3	5	50	mg/m3	
1112	Dinitro-o-cresol, 4,6-	534-52-1	0.2	0.2	0.5	5	mg/m3	
1113	Dinitrophenol	25550-58-7	0.25	0.75	5	25	mg/m3	

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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 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1114	Dinitrophenol, 2,3-	66-56-8	0.75	2	15	75	mg/m3	
1115	Dinitrophenol, 2,4-	51-28-5	1.5	5	30	30	mg/m3	See also CASRN 25550-58-7, mixed isomers.
1116	Dinitrophenol, 2,6-	573-56-8	0.15	0.4	3	15	mg/m3	
1117	Dinitro-p-toluidine, 2,6-; (4-Amino-3,5-dinitrotoluene)	6393-42-6	2.5	7.5	50	250	mg/m3	
1118	Dinitrosopiperazine; (Piperazine, 1,4-dinitroso-)	140-79-4	0.5	1.5	10	60	mg/m3	
1119	Dinitrotoluene	25321-14-6	0.2	0.6	12.5	50	mg/m3	
1120	Dinitrotoluene, 2,4-	121-14-2	0.2	0.6	30	50	mg/m3	
1121	Dinitrotoluene, 2,6-	606-20-2	0.2	0.6	6	50	mg/m3	
1122	Dinitrotoluene, 3,4-	610-39-9	0.2	0.6	10	50	mg/m3	Limits are for mixed isomers
1123	Dinoseb; (2-sec-Butyl-4,6-dinitrophenol)	88-85-7	0.75	2.5	4.5	10	mg/m3	
1124	Dinoterb; (2-(1,1-Dimethylethyl)-4,6-dinitrophenol)	1420-07-1	5	15	25	25	mg/m3	
1125	Dioctyl phthalate, n-	117-84-0	15	50	400	500	mg/m3	
1126	Dioctyl sebacate; (Bis(2-ethylhexyl) sebacate)	122-62-3	7.5	20	150	500	mg/m3	
1127	Dioctyl sodium sulfosuccinate; (Di-(2-ethylhexyl) sodium sulfosuccinate)	577-11-7	7.5	20	150	500	mg/m3	
1128	**Dioxane, 1,4-**	**123-91-1**	17	**17**	**320**	**760**	ppm	**Interim AEGL-1, -2, -3.**
1129	Dioxathion	78-34-2	0.1	0.3	3.4	150	mg/m3	

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1130	Dioxin; (TCDD; 2,3,7,8-tetrachlorodibenzo-p-dioxin)	1746-01-6	0.0006	0.0015	0.0075	0.0075	mg/m3	SAX has synonym 2,3,6,7-tetrachlorodibenzo-p-dioxin, not other databases
1131	Dioxolane, 1,3-	646-06-0	20	20	69.3	***5000***	ppm	See LEL Formattinng Note.
1132	Dipentaerythritol; (Dipentek)	126-58-9	10	30	50	250	mg/m3	
1133	Dipentyl pentylphosphonate	6418-56-0	25	75	500	500	mg/m3	RTECS LD > 3160 mg/kg.
1134	Diphacinone; (Diphenadione)	82-66-6	0.15	0.5	0.9	500	mg/m3	
1135	Diphenyl mercury	587-85-9	0.177	0.177	0.177	17.7	mg/m3	Mercury, aryl compound limits, as Hg.
1136	Diphenyl o-cresol phosphate; (Diphenyl cresol phosphate)	26444-49-5	2.5	7.5	50	500	mg/m3	Added.
1137	**Diphenyl; (Biphenyl)**	**92-52-4**	0.2	1.25	**9.6**	15.9	ppm	**New interim AEGL-2.** All Ts changed.
1138	Diphenylamine	122-39-4	10	30	125	125	mg/m3	
1139	**Diphenylchloroarsine; (Chlorodiphenylarsine)**	**712-48-1**	0.39	0.39	**0.39**	**1.2**	mg/m3	Added. **New Interim AEGL-2, -3**
1140	**Diphenyldichlorosilane**	**80-10-4**	0.3	**0.90**	**11**	**50**	ppm	Added. **New interim AEGL-1, -2, -3.**
1141	Diphenylguanidine, 1,3-	102-06-7	0.2	0.6	4	125	mg/m3	
1142	Diphenylhydrazine, 1,2-	122-66-7	0.2	0.6	4	125	mg/m3	
1143	Diphenylmethane	101-81-5	7.5	25	200	500	mg/m3	
1144	Diphenylnitrosamine	86-30-6	7.5	25	150	500	mg/m3	

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Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1145	Diphenyloxazole, 2,5-	92-71-7	3	7.5	60	300	mg/m3	
1146	Dipicolinic acid; (2,6-Pyridinedicarboxylic acid)	499-83-2	10	30	50	250	mg/m3	TSCA, HC&P listed, no toxicity data. MSDS MW = 147.12
1147	Dipotassium cadmium oxide	z-0013	0.0099	0.0594	0.1	17.8	mg/m3	Cadmium compounds, as Cd.
1148	Dipotassium dihydrogen silicate	z-0014	10	30	50	250	mg/m3	MW = 140.30 for MF = K2H2SiO2
1149	Dipotassium metasilicate	10006-28-7	6	15	125	500	mg/m3	**SAR**
1150	Dipropyl ketone; (4-Heptanone)	123-19-3	50	50	60	350	ppm	
1151	Dipropylamine	142-84-7	15	50	350	500	mg/m3	
1152	Dipropylene glycol methyl ether	34590-94-8	100	150	300	600	ppm	IDLH added. T-2, T-3 changed.
1153	Direct Black 38; (Apomine black GX)	1937-37-7	25	75	500	500	mg/m3	
1154	Di-sec-octylphthalate	117-81-7	5	10	75	500	mg/m3	
1155	Disodium (2-ethylhexyl)phosphate	15505-13-2	0.02	0.06	0.4	2	mg/m3	TSCA and H&N listed. SAR
1156	Disodium 3,6-endoxohexahydrophthalate	129-67-9	1	3	20	20	mg/m3	
1157	Disodium butylphosphate	64114-42-7	0.02	0.06	0.4	2	mg/m3	SAR
1158	Disodium cadmium oxide	z-0016	0.00847	0.0508	0.0847	15.2	mg/m3	Cadmium compound, as Cd.
1159	Disodium dihydrogen silicate	z-0017	10	30	50	250	mg/m3	
1160	Disodium ethylenediaminediacetate (S and U isomers)	38011-25-5	4	12.5	75	400	mg/m3	RTECS MW = 222.18 SAR

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1161	Disodium hexafluorosilicate (2-)	16893-85-9	4.12	4.12	5	5	mg/m3	Use human toxicit rather than fluoride IDLH.
1162	Disodium iminodiacetate	928-72-3	4	12.5	100	500	ppm	TSCA has MF with H7 rather than H5.
1163	Disulfiram	97-77-8	2	2	3	125	mg/m3	
1164	Disulfoton	298-04-4	0.05	0.15	2	75	mg/m3	
1165	Di-tert-butyl dicarbonate	24424-99-5	0.4	1.25	7.5	40	mg/m3	
1166	Di-tert-butylhydroquinone, 2,5-	88-58-4	12.5	40	250	400	mg/m3	
1167	Dithiazanine iodide; (3,3'-Diethylpentamethinethiacyanine iodide)	514-73-8	4	12.5	20	20	mg/m3	
1168	Dithiobiuret	541-53-7	1	3	5	5	mg/m3	
1169	Dithiodiethanol, 2,2-; (Dithiodiglycol)	1892-29-1	0.75	2	15	75	mg/m3	HC&P pchem data.
1170	Dithioerythritol, 1,4-	6892-68-8	1.25	4	25	125	mg/m3	
1171	Diurethane dimethacrylate	72869-86-4	75	250	500	500	mg/m3	TSCA listed. No toxicity or pchem data found. MSDS HHR = 0.
1172	Divinylbenzene, m-; (m-Vinylstyrene)	108-57-6	10	10	75	350	ppm	
1173	Divinylbenzene, mixed isomers; (Vinylstyrene)	1321-74-0	10	10	75	350	ppm	
1174	Dodecamethylcyclohexasiloxane	540-97-6	10	30	50	500	mg/m3	r os LD50 > 50 g/kg SAR
1175	Dodecane	112-40-3	0.015	0.05	0.35	20	ppm	
1176	Dodecanethiol, 1-; (Dodecyl mercaptan; Lauryl mercaptan)	112-55-0	0.1	0.3	0.5	2.5	ppm	

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1177	Dodecen-1-yl)succinic anhydride, (2-; (DDSA)	19780-11-1	10	30	50	250	mg/m3	TSCA listed, no toxicity data or HHR found.
1178	Dodecenylsuccinic anhydride	25377-73-5	5	15	100	500	mg/m3	
1179	Dodecyl alcohol	112-53-8	0.4	1	7.5	500	mg/m3	
1180	Dodecyl methacrylate	142-90-5	5	15	100	500	ppm	
1181	Dodecylbenzene sulfonic acid; (Laurylbenzenesulfonic acid)	27176-87-0	2.5	7.5	50	250	mg/m3	
1182	Dodecylphenol, 4- (mixture of isomers)	27193-86-8	7.5	25	150	500	mg/m3	Pchem data varies in SAX, HSDB, HC&P.
1183	Dodecylsarcosine sodium salt, N-; (N-laurel sarcosine sodium salt)	7631-98-3	1.5	4	30	150	mg/m3	
1184	**Dodecyltrichlorosilane**	**4484-72-4**	0.2	**0.60**	**7.3**	**33**	ppm	**New interim AEGL-1, -2, -3.** Added.
1185	Dodenyl succine anhydride; (Tetrapropenylsuccinic anhydride)	26544-38-7	10	30	200	500	mg/m3	
1186	Dowex 50WX4 (50-400 ion exchange resin)	11113-61-4	10	30	50	250	mg/m3	Not found in databases. No MSDS, assume solid.
1187	Dv methyl ester; (Methyl 3-(2,2-dichlorovinyl)-2,2-	61898-95-1	10	30	50	250	mg/m3	TSCA listed. No toxicity data found. MW, BP, SG ex MSDS.
1188	Dysprosium	7429-91-6	10	30	50	250	mg/m3	No toxicity data found.
1189	Dysprosium nickelide	12175-27-8	10	30	50	250	mg/m3	Not found in databases.
1190	Dysprosium nitrate	10143-38-1	10	30	200	500	mg/m3	
1191	Dysprosium oxide; (Dysprosium(III) oxide)	1308-87-8	20	60	400	500	mg/m3	Rat oral LD50 > 5 g/kg
1192	Ecolite	z-0018	20	60	400	500	mg/m3	

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Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1193	Emetine dihydrochloride, l-	316-42-7	0.05	0.15	0.25	0.25	mg/m3	
1194	Endosulfan	115-29-7	0.1	0.3	0.8	35	mg/m3	
1195	Endothion	2778-04-3	3.5	10	17	17	mg/m3	
1196	Endrin	72-20-8	0.1	0.3	2	2	mg/m3	
1197	Epibatadine (nicotine-like)	z-0019	0.0015	0.004	0.025	0.025	mg/m3	
1198	Epibromohydrin	3132-64-7	1.25	3.5	25	125	mg/m3	
1199	**Epichlorohydrin**	**106-89-8**	0.5	**5.7**	**24**	**72**	ppm	**Interim AEGL-1, -2, -3.**
1200	Epinephrine; (Vasotonin; (R)-4-(1-Hydroxy-2-(methylamino)ethyl)-1,2-benzenediol)	51-43-4	0.25	0.25	0.25	0.25	mg/m3	
1201	EPN; (O-Ethyl-O-(4-nitrophenyl) phenylthiophosphonate)	2104-64-5	0.5	0.5	5	5	mg/m3	
1202	Epoxy resin (EPON 1001)	25068-38-6a	125	350	500	500	mg/m3	
1203	Epoxy resin (EPON 1007)	25068-38-6b	125	350	500	500	mg/m3	
1204	Epoxy resin (EPON 820)	25068-38-6c	50	150	500	500	mg/m3	
1205	Epoxy resin ERL-2795	25068-38-6d	4	12.5	100	500	mg/m3	
1206	Epoxy resin, cured; (4,4'-(1-Methylethylidene)biscyclohexanol, polymer with (chloromethyl)oxirane)	30583-72-3	10	30	50	250	mg/m3	
1207	Epoxy resin; (Bisphenol A-Bisphenol A diglycidyl ether polymer))	25036-25-3	7.5	25	150	500	mg/m3	TSCA, H&N listed. No toxicity data found. Used SRS HHR = 2.

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Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1208	Epoxy resin; (Epichlorhydrin, polymer with diethylene glycol)	25928-94-3	0.06	0.2	1.25	6	mg/m3	
1209	Epoxybutane, 1,2- ; (1,2-Butylene oxide)	106-88-7	2	75	200	200	ppm	
1210	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.
1211	Erbium nitrate pentahydrate	10031-51-3	10	30	50	250	mg/m3	
1212	Erbium(III) nitrate	10168-80-6	0.2	0.6	5	25	mg/m3	
1213	Erbium(III) nitrate hexahydrate	13476-05-6	1	3	20	100	mg/m3	
1214	Erbium(III) oxide	12061-16-4	20	60	400	500	mg/m3	Rat LD50 > 5 g/kg
1215	Ergocalciferol; (Vitamin D2)	50-14-6	7.5	25	40	40	mg/m3	
1216	Ergotamine tartrate	379-79-3	2	6	10	60	mg/m3	
1217	Estane; (Polyurethane resin; Urethane rubber)	61789-63-7	10	30	50	250	mg/m3	OHMTADS lists "Estane-5703", CASRN = 51-79-6, MSDS not useful
1218	Ethane	74-84-0	1000	***3000***	***5000***	***25000***	ppm	Aliphatic hydrocarbon gas TLV-TWA. See LEL Formattinng Note.
1219	Ethanedioic acid, dimethyl ester	553-90-2	4	12.5	75	400	mg/m3	Rat LD lo > 500 mg/kg.
1220	Ethanedithiol, 1,2-	540-63-6	0.35	1	7.5	40	ppm	
1221	Ethanediyl)bisbenzene, 1,1'-(1,2-; (Bibenzyl)	103-29-7	15	50	400	500	mg/m3	
1222	Ethanediylbis(N-(carboxymethyl)glycine), N,N'-1,2-, dipotassium salt	2001-94-7	1.5	5	40	200	mg/m3	
1223	Ethanediylbis(oxy))bisbenzene, 1,1'-(1,2-	104-66-5	10	30	50	250	mg/m3	No toxicity data. MSDS solid.

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Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1224	**Ethanethiol; (Ethyl mercaptan)**	**75-08-1**	0.5	**1.0**	**120**	**360**	ppm	**Interim AEGL-1, -2, -3.** T-2 changed.
1225	Ethanol, titanium(4+) salt	3087-36-3	10	30	50	250	mg/m3	TSCA, H&N listed, no toxicity data, assumed nonvolatile liquid.
1226	Ethanolamine	141-43-5	3	6	30	30	ppm	
1227	Ethenylsilanetriol triacetate	4130-08-9	10	30	50	250	mg/m3	TSCA, HC&P listed, no toxicity data, no MSDS found, assumed nonvolatile.
1228	Ethidium bromide; (2,7-Diamino-10-ethyl-9-phenylphenanthridinium bromide)	1239-45-8	0.15	0.5	4	20	mg/m3	
1229	Ethion	563-12-2	0.05	0.15	13	350	mg/m3	
1230	Ethoxyethanol, 2-	110-80-5	5	15	500	500	ppm	
1231	Ethoxyethoxy)ethanol, 2-(2-; (Carbitol cellosolve; Diethylene glycol monoethyl ether)	111-90-0	25	30	200	400	ppm	
1232	Ethoxyethyl methacrylate, 2-	2370-63-0	4	12.5	75	400	mg/m3	TSCA listed, no toxicity or pchem data found. Toxicity based on Ethoxyethyl acrylate (106-74-1).
1233	Ethoxyethylacetate, 2-	111-15-9	5	75	500	500	ppm	PEL-TWA ignored.
1234	Ethoxyimino)butyl)-5-(2-ethylthiopropyl)-3-hydroxycyclohex-2-en-1-one, 2-(1-(; (Checkmate)	74051-80-2	12.5	40	250	500	mg/m3	
1235	Ethoxylated alcohols, C16-18; (Nonionic surfactant)	68439-49-6	5	15	100	500	mg/m3	Pchem data ex MSDS.
1236	Ethoxylated alcohols, C7-C21	68991-48-0	10	10	10	10	mg/m3	No toxicity data found.
1237	Ethoxylated nonylphenol; (Nonyl phenyl polyethylene glycol ether)	9016-45-9	5	15	100	500	mg/m3	

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No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1238	Ethyhexyloxy)ethanol, 2-(2-	1559-35-9	100	350	500	500	mg/m3	Added.
1239	Ethyl (or dimethyl) pyrrolidine	z-0020	5	15	100	500	mg/m3	**SAR**
1240	Ethyl acetate	141-78-6	400	400	400	***2000***	ppm	See LEL Formattinng Note.
1241	Ethyl acetoacetate	141-97-9	15	50	350	500	mg/m3	
1242	**Ethyl acrylate**	**140-88-5**	5	**8.3**	**36**	**240**	ppm	**Interim AEGL-1, -2, -3.** PEL-TWA suppressed. T-0 changed.
1243	Ethyl alcohol; (ethanol)	64-17-5	1000	3000	***3300***	***3300***	ppm	See LEL Formattinng Note.
1244	Ethyl alcohol-d; (Ethanol-d)	925-93-9	1000	3000	3300	3300	ppm	Not listed in databases, MSDS pchem data.
1245	Ethyl amyl ketone; (5-Methyl-3-heptanone; 3-Octanone)	106-68-3	25	25	25	100	ppm	CASRN = 541-85-5 in OEV Guide, SAX, RTECS, TSCA, but not ChemFinder. TLV-TWA changed.
1246	Ethyl benzene	100-41-4	100	125	125	***800***	ppm	See LEL Formattinng Note.
1247	Ethyl benzoate	93-89-0	7.5	25	150	500	mg/m3	
1248	Ethyl bromoacetate	105-36-2	0.00075	0.0025	0.02	0.1	ppm	
1249	Ethyl butyl ketone; (3-Heptanone)	106-35-4	50	75	200	1000	ppm	
1250	Ethyl cellulose	9004-57-3	20	60	400	500	mg/m3	Rat oral LD50 > 5 g/kg
1251	Ethyl chloride	75-00-3	100	1500	***3800***	***3800***	ppm	PEL-TWA ignored. See LEL Formattinng Note.
1252	Ethyl chloroacetate	105-39-5	0.15	0.4	3	15	ppm	

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Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1253	**Ethyl chloroformate**	**541-41-3**	1	1	**1.6**	**4.8**	ppm	**New interim AEGL-2, -3. New ERPG-2, -3.** T-2, T-3 changed.
1254	**Ethyl dimethylamido-cyanophosphate; (Tabun; GA)**	**77-81-6**	0.000125	**0.00042**	**0.0053**	**0.039**	ppm	**Final AEGL-1, -2, -3.**
1255	Ethyl ether	60-29-7	400	500	500	***1900***	ppm	See LEL Formattinng Note.
1256	Ethyl formate	109-94-4	100	300	500	1500	ppm	
1257	Ethyl hexanoic acid, 2-; (Butyl ethyl acetic acid)	149-57-5	5	15	125	500	mg/m3	T-0 changed.
1258	Ethyl lactate; (Ethyl (s)-(-)-lactate)	687-47-8	15	40	300	500	mg/m3	HHR = 2. HSDB toxicity data.
1259	Ethyl mercury chloride; (Chloroethyl mercury)	107-27-7	0.0132	0.0396	0.0529	2.64	mg/m3	Concentration limits, mercury, alkyl compounds.
1260	Ethyl methacrylate; (2-Methyl-2-propenoic acid, ethyl ester)	97-63-2	50	150	750	750	ppm	
1261	Ethyl nitrite	109-95-5	0.6	2	12.5	60	ppm	
1262	Ethyl O-2-diisopropylaminoethylmethylphosphonite, O-; (QL)	57856-11-8	10	30	50	250	mg/m3	CHEMFINDER, TSCA listed, no toxicity data, assumed nonvolatile liquid or solid.
1263	Ethyl propionate	105-37-3	7.5	25	150	750	ppm	
1264	Ethyl S,S-dipropylphosphorodithioate, O-; (Mocap PC-84; Ethoprophos)	13194-48-4	0.25	0.75	5	15	mg/m3	Pchem data added.
1265	Ethyl silicate polymer; (Silicic acid, ethyl ester)	11099-06-2	10	30	50	250	mg/m3	TSCA, H&N listed, no pchem or toxicity data found. ChemFinder MW, MF.
1266	Ethyl-1,3-hexanediol, 2-; (Ethyl hexylene glycol)	94-96-2	12.5	40	300	750	ppm	
1267	**Ethyl-1-hexanol, 2-**	**104-76-7**	0.1	**0.1**	**120**	**227**	ppm	**ERPG-1, -2, -3.**

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1268	Ethyl-2-methylheptane, 3-	14676-29-0	15	50	350	***1500***	ppm	No toxicity data found, ChemFinder listed, LC50 estimated. See LEL Formattinng Note.
1269	Ethyl-2-methyloctane, 6-	62016-19-7	0.35	1	6	35	ppm	Undecane toxicity data used (C11 Alkanes)
1270	Ethyl-2-oxazoline, 2-	10431-98-8	0.1	0.3	2	10	ppm	TSCA listed, no toxicity or HHR found, MSDS pchem data.
1271	Ethyl-4-hydroxybenzoate; (p-Hydroxybenzoic acid ethyl ester)	120-47-8	250	500	500	500	mg/m3	
1272	Ethyl-5-methylheptane, 3-	52896-90-9	0.06	0.2	1.25	***5000***	ppm	See LEL Formattinng Note. (Don't know source of data)
1273	Ethyl-6-methyl-4-phenyl-3-cyclohexene-1-carboxylic acid sodium salt, 5-; (Mebane sodium salt)	16550-39-3	0.001	0.003	0.02	0.1	mg/m3	
1274	**Ethylamine; (Monoethylamine; Ethylamine anhydrous)**	**75-04-7**	7.5	**7.5**	**49**	**270**	ppm	**New interim AEGL-1, -2, -3.** All Ts changed.
1275	Ethylbenzaldehyde, 2-	22927-13-5	10	30	200	***1000***	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 Formattinng Note.
1276	**Ethylbis(2-chloroethyl)amine; (Bis(2-chloroethyl)ethylamine; Nitrogen mustard-1)**	**538-07-8**	0.004	0.0125	**0.022**	**0.37**	mg/m3	**Added. New interim AEGL-2, -3.** LC data ex SAX, not in RTECS. All Ts changed.
1277	**Ethylchlorothioformate**	**2941-64-2**	0.05	0.15	**0.26**	**0.79**	ppm	Added. **New interim AEGL-2, -3.**
1278	**Ethyldichloroarsine; (Dichloroethylarsine)**	**598-14-1**	0.029	0.029	**0.029**	**0.086**	mg/m3	Added. **New Interim AEGL-2, -3**
1279	Ethylene	74-85-1	200	600	***7500***	***7500***	ppm	Mouse 120 min RTECS LC50 ignored, See LEL Formattinng Note.

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Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1280	**Ethylene chlorohydrin; (2-Chloroethanol)**	**107-07-3**	1	1	**4.0**	**12**	ppm	**New interim AEGL-2, -3.** T-2, T-3 changed.
1281	**Ethylene dibromide; (Dibromoethane)**	**106-93-4**	17	**17**	**24**	**46**	ppm	**New interim AEGL-1, -2, -3.**
1282	**Ethylene dichloride; (1,2-Dichloroethane)**	**107-06-2**	50	**50**	**200**	**300**	ppm	**ERPG-1, -2, -3**
1283	Ethylene fluorohydrin; (2-Fluoroethanol)	371-62-0	0.005	0.015	0.0267	1.25	ppm	
1284	Ethylene glycol	107-21-1	10	10	40	60	ppm	T-1 changed.
1285	Ethylene glycol diacetate	111-55-7	25	75	500	500	mg/m3	Added.
1286	Ethylene glycol dimethacrylate	97-90-5	12.5	40	300	500	mg/m3	
1287	Ethylene glycol monomethyl ether acetate; (EGMEA; 2-Methoxyethyl acetate)	110-49-6	0.1	0.3	20	200	ppm	TLV-TWA used, PEL-TWA ignored.
1288	Ethylene glycol monomethyl ether; (2-Methoxyethanol; EGME; Methyl Cellosolve(R))	109-86-4	0.1	0.35	2.5	200	ppm	PEL-TWA ignored. All Ts changed.
1289	Ethylene glycol monopropyl ether; (Propyl cellosolve; Ektasolve EP)	2807-30-9	4	12.5	75	1000	ppm	
1290	Ethylene glycol mono-sec-butyl ether	7795-91-7	3	10	60	350	mg/m3	
1291	**Ethylene oxide; (Oxirane)**	**75-21-8**	1	5	**45**	**200**	ppm	**Interim AEGL-2, -3.**
1292	Ethylene/vinyl acetate copolmer	24937-78-8	10	30	50	250	mg/m3	TSCA, H&N listed, no toxicity data; MSDS states, MP and SG.
1293	Ethylenediamine dihydrochloride	333-18-6	0.1	0.3	2	60	mg/m3	Human TClo skin ignored. No pchem data found.
1294	**Ethylenediamine, 1,2-**	**107-15-3**	9.7	9.7	**9.7**	**20**	ppm	**Final AEGL-2, -3.**

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1295	Ethylenediaminetetraacetic acid, disodium salt	139-33-3	60	150	500	500	mg/m3	
1296	Ethylenediaminetetraacetic acid, disodium salt, dihydrate	6381-92-6	10	30	50	250	mg/m3	RTECS listed. No toxicity data found.
1297	Ethylenediaminetetraacetic acid, ferric ammonium salt	21265-50-9	2.5	7.5	50	250	mg/m3	Source of mouse toxicity data not traced.
1298	Ethylenediaminetetraacetic acid, tetrasodium salt, dihydrate	10378-23-1	7.5	25	150	500	mg/m3	MSDS HHR =2 used to estimate toxicity.
1299	Ethylenediaminetetraacetic acid, tetrasodiumn salt; (Tetrasodium EDTA)	64-02-8	40	125	500	500	mg/m3	MF corrected. MP =>300 C in HSDB.
1300	Ethylenediaminetetraacetic acid; (EDTA)	60-00-4	40	125	150	150	mg/m3	
1301	Ethylenedinitrilo)tetra-2-propanol, 1,1',1",1'"-(	102-60-3	15	50	350	500	mg/m3	Rat oral LD > 500 mg/kg.
1302	**Ethyleneimine**	**151-56-4**	0.5	0.6	**4.6**	**9.9**	ppm	**Interim AEGL-2, -3.**
1303	Ethylenethiourea; (2-Imidazolidinethione)	96-45-7	0.75	2.5	15	500	mg/m3	Human 10 year TClo ignored.
1304	Ethylheptane, 4-	2216-32-2	3	10	60	350	ppm	Assumed HHR = 3 to estimate toxicity.
1305	Ethylhexyl acrolate, 2-; (Acrylic acid, 2-ethylhexyl ester)	103-11-7	0.5	1.5	10	10	ppm	Synonym corrected.
1306	Ethylhexyl bromide, 2-	18908-66-2	10	30	50	250	mg/m3	TSCA listed, no toxicity or pchem data found. MSDS pchem data, not helpful, assumed non-volatile.
1307	**Ethylhexylchloroformate, 2-**	**24468-13-1**	0.04	0.125	**0.97**	**2.9**	ppm	Added. **New interim AEGL-2, -3.**
1308	Ethylidene chloride, 1,1-; (1,1-Dichloroethane)	75-34-3	100	300	3000	3000	ppm	
1309	**Ethylidene norbornene**	**16219-75-3**	0.06	**0.2**	**100**	**500**	ppm	**ERPG-1, -2, -3** T-0 changed.

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1310	Ethylmagnesium chloride; (Chloroethyl magnesium)	2386-64-3	10	30	50	250	mg/m3	TSCA listed, no toxicity data found, no HHR in MSDS. Used "N" for conc. dependence.
1311	**Ethyl-S-dimethylaminoethyl methylphosphonothiolate; (VX nerve agent)**	**50782-69-9**	0.000005	**1.6E-05**	**0.0003**	**0.0009**	ppm	**Final AEGL-1, -2, -3.**
1312	Ethylthiocyanate	542-90-5	20	60	100	100	mg/m3	
1313	Ethyltoluene, o-	611-14-3	500	500	500	500	mg/m3	
1314	Ethyltoluene, p-	622-96-8	500	500	500	500	mg/m3	
1315	Europium	7440-53-1	10	30	50	250	mg/m3	TSCA listed, no toxicity data found.
1316	Europium nitrate; (Europium trinitrate)	10138-01-9	15	50	350	500	mg/m3	
1317	Europium oxide	1308-96-9	20	60	400	500	mg/m3	Rat oral LD50 > 5 g/kg
1318	Europium(II) iodide	22015-35-6	10	30	50	250	mg/m3	TSCA, HC&P listed, no toxicity toxicity data found.
1319	Farnesol	4602-84-0	25	75	500	500	mg/m3	
1320	Fatty acids, tall-oil, polymers with glycerol, pentaerythritol and phthalic anhydride	66070-62-0	10	30	50	250	mg/m3	
1321	Fenamiphos	22224-92-6	0.05	0.15	0.9	40	mg/m3	
1322	Fensulfothion	115-90-2	0.01	0.03	2	12.5	mg/m3	
1323	Fenthion	55-38-9	0.05	0.15	40	40	mg/m3	
1324	Ferric ammonium citrate	1185-57-5	1	3	500	500	mg/m3	Hygroscopic, light sensitive.

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Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1325	Ferric ammonium sulfate dodecahydrate	7783-83-7	8.64	25.9	43.2	200	mg/m3	RTECS listed, no toxicity data.
1326	Ferric ammonium sulfate; (Sulfuric acid, ammonium iron(3e+) salt (2:1:1))	10138-04-2	4.82	14.5	25	125	mg/m3	
1327	Ferric chloride	7705-08-0	2.9	3.5	25	125	mg/m3	
1328	Ferric chloride hexahydrate	10025-77-1	4.84	75	100	100	mg/m3	
1329	Ferric fluoride	7783-50-8	14.8	40	300	500	mg/m3	
1330	Ferric hydroxide; (Iron(III) hydroxide)	1309-33-7	3.5	10	75	400	mg/m3	Insoluble iron compound. Rabbit fed 870 mg/kg died.
1331	Ferric nitrate	10421-48-4	4.33	13	21.7	100	mg/m3	Iron salts, soluble, as Fe.
1332	Ferric nitrate nonahydrate; (Iron(III) nitrate nonahydrate (1:3:9))	7782-61-8	7.24	21.72	250	500	mg/m3	Iron salts, soluble, as Fe.
1333	Ferric phosphate	10045-86-0	2.75	8.26	13.8	60	mg/m3	Iron salts, soluble, as Fe.
1334	Ferric sulfate; (Iron(III) sulfate)	10028-22-5	3.58	10.7	17.9	75	mg/m3	Iron salts, soluble, as Fe.
1335	Ferrous ammonium sulfate	10045-89-3	5.09	15.3	25.4	125	mg/m3	
1336	Ferrous carbonate	563-71-3	15	40	300	500	mg/m3	Insoluble iron compound.. HSDB toxicity data. All Ts changed.
1337	Ferrous chloride	7758-94-3	2.27	6.81	11.3	200	mg/m3	
1338	Ferrous disulfide; (Iron disulfide)	12068-85-8	2.15	6.44	10.7	50	mg/m3	
1339	Ferrous hydroxide; (Iron(III) hydroxide)	18624-44-7	1.61	4.83	8.05	400	mg/m3	OHMTADS and TSCA listed. ChemBank differs from other sources including HC&P. T-0, T-1, T-2 changed.

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1340	Ferrous sulfamate	14017-39-1	1	3	5	25	mg/m3	
1341	Ferrous sulfate	7720-78-7	2.72	8.16	13.6	350	mg/m3	
1342	Ferrous sulfate heptahydrate	7782-63-0	4.98	14.9	25	500	mg/m3	
1343	Fibrous glass; (Fiber glass; Glass frit; Synthetic vitreous fibers)	65997-17-3	5	15	60	500	mg/m3	
1344	Fluenetil	4301-50-2	1.25	3.5	6	6	mg/m3	
1345	Fluoboric acid; (Tetrafluoroboric acid)	16872-11-0	2.89	2.89	7.5	40	mg/m3	
1346	Fluoranthene	206-44-0	0.004	0.01	0.075	500	mg/m3	
1347	Fluorene, 9H-	86-73-7	7.5	25	150	500	mg/m3	
1348	Fluorides (as F)	16984-48-8	2.5	2.5	2.5	250	mg/m3	
1349	**Fluorine**	**7782-41-4**	0.1	**1.7**	**5.0**	**13**	ppm	**Interim AEGL-1, -2, -3**
1350	Fluoro-2-nitrobenzene, 1-; (o-Fluoronitrobenzene)	1493-27-2	7.5	25	150	500	mg/m3	No toxicity data found. MSDS HHR = 2.
1351	Fluoro-4-nitrophenol, 2-	403-19-0	0.75	2.5	15	75	mg/m3	**SAR.** ChemFinder also has CASRN = 21571-34-6, deleted as separate entry.
1352	Fluoro-6-nitrophenol, 2-	1526-17-6	0.75	2.5	15	75	mg/m3	**SAR,** ChemFinder listed.
1353	Fluoroacetamide	640-19-7	1	3.5	5.8	5.8	mg/m3	
1354	Fluoroacetic acid, sodium salt; (Sodium fluoroacetate)	62-74-8	0.05	0.15	0.5	2.5	mg/m3	
1355	Fluoroacetic acid; (Fluoroethanoic acid)	144-49-0	0.075	0.25	0.47	2	mg/m3	

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No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1356	Fluoroacetyl chloride	359-06-8	2	6	10	10	mg/m3	
1357	Fluoroaniline, p-	371-40-4	1.5	5	35	150	mg/m3	Rat oral TDlo, unspecified time, not used.
1358	Fluorobenzene	462-06-6	125	350	500	500	mg/m3	
1359	**Fluorosulfonic acid; (Fluorosulfuric acid)**	**7789-21-1**	2	**2**	**10**	**30**	mg/m3	Added. **New ERPG-1, -2, -3.**
1360	Fluorotrimethylsilane	420-56-4	2.5	7.5	50	250	ppm	Based on silicon fluoride.
1361	Fluorouracil	51-21-8	0.75	2.5	19	100	mg/m3	
1362	Fonofos	944-22-9	0.01	0.03	1.3	200	mg/m3	
1363	Food Red 15; (FD&C Red No. 19)	81-88-9	0.4	1.25	7.5	50	mg/m3	
1364	Forane	26675-46-7	2000	5000	5000	5000	ppm	
1365	**Formaldehyde**	**50-00-0**	0.3	**0.90**	**14**	**56**	ppm	**Interim AEGL-1, -2, -3.**
1366	Formaldehyde cyanohydrin; (Hydroxyacetonitrile; Glycolonitrile)	107-16-4	0.125	0.35	2.57	4	ppm	
1367	Formamide	75-12-7	10	20	125	1250	ppm	
1368	Formetanate hydrochloride	23422-53-9	3.5	10	18	18	mg/m3	
1369	Formic acid	64-18-6	5	10	10	30	ppm	
1370	Formic acid, 2-propenyl ester; (Allyl formate)	1838-59-1	4	12.5	75	400	mg/m3	
1371	Formic acid, butyl ester; (n-Butyl formate)	592-84-7	50	150	1000	1000	ppm	

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No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1372	Formothion	2540-82-1	0.05	0.15	0.27	10	mg/m3	
1373	Formparanate	17702-57-7	1.5	4	7.2	7.2	mg/m3	
1374	Formylpiperidine, 1-	2591-86-8	4	12.5	75	75	ppm	
1375	Fosthietan	21548-32-3	0.75	2.5	4.7	4.7	mg/m3	
1376	Fuberidazole	3878-19-1	0.6	2	3.3	125	mg/m3	
1377	Fuel oil, residual	68476-33-5	35	100	500	500	mg/m3	
1378	Fuller's earth	8031-18-3	5	6	500	500	mg/m3	
1379	Fulminic acid; (Carbyloxime)	506-85-4	0.6	1.5	12.5	60	ppm	No toxicity data found, pchem data ex HC&P,
1380	Fumaric acid	110-17-8	40	100	500	500	mg/m3	
1381	**Furan**	**110-00-9**	1.25	4	**6.8**	**19**	ppm	**Interim AEGL-2, -3.**
1382	**Furancarboxaldehyde, 2-; (Furfural)**	**98-01-1**	2	**2**	**10**	**100**	ppm	**ERPG-1, -2, -3**
1383	Furancarboxylic acid, ethyl ester, 2-; (Ethyl furoate)	614-99-3	0.25	0.75	5	25	ppm	
1384	Furfuryl alcohol	98-00-0	15	15	15	75	ppm	
1385	Fusariotoxin T2; (T2-Trichothecene)	21259-20-1	0.0015	0.004	0.03	0.4	mg/m3	
1386	Gadolinium	7440-54-2	500	500	500	500	mg/m3	
1387	Gadolinium chloride hexahydrate	13450-84-5	40	75	75	75	mg/m3	No pchem data found.

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No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1388	Gadolinium hydroxide	16469-18-4	0.75	0.75	2.5	75	mg/m3	**SAR**
1389	Gadolinium nitrate, solid	10168-81-7	10	30	50	500	mg/m3	
1390	Gadolinium nitrite	z-0022	0.04	0.125	0.75	75	mg/m3	**SAR**
1391	Gadolinium(III) oxide	12064-62-9	2	6	50	500	mg/m3	Rat LD50 > 5000 mg/m3
1392	Gallic acid monohydrate	5995-86-8	15	50	350	500	mg/m3	Not found in databases. MSDS LD50.
1393	Gallium	7440-55-3	10	30	50	250	mg/m3	
1394	Gallium oxide	12024-21-4	10	30	50	500	mg/m3	
1395	Gallium trichloride	13450-90-3	6	20	32	100	mg/m3	
1396	Gallium trifluoride	7783-51-9	5.56	16.7	27.8	125	mg/m3	
1397	Gasoline	8006-61-9	300	500	500	***1500***	ppm	See LEL Formattinng Note.
1398	Gelatin; (Pharmagel A)	9000-70-8	2.5	7.5	60	300	mg/m3	
1399	Germane; (Germanium tetrahydride)	7782-65-2	0.2	0.6	1	150	ppm	
1400	Germanium	7440-56-4	0.0125	0.035	0.25	500	mg/m3	
1401	Germanium oxide	1310-53-8	0.75	2	15	500	mg/m3	
1402	Germanium tetrafluoride	7783-58-6	4.89	12.5	100	489	mg/m3	Reacts with H2.O All Ts changed.
1403	Germanous acid	z-0023	2	6	40	200	mg/m3	Used minimum germanium compound LD50

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1404	Giemsa's stain; (… blood stain)	51811-82-6	10	30	50	250	mg/m3	No toxicity data found.
1405	Gluconic acid, D-	526-95-4	10	30	50	250	mg/m3	No toxicity data found.
1406	Glucose monohydrate, D(+)-; (Dextrose)	14431-43-7	10	30	50	250	mg/m3	No toxicity or pchem data found.
1407	Glucose, alpha-D-; (alpha-Dextrose)	492-62-6	0.4	1.25	7.5	500	mg/m3	Glucose, CASRN = 50-99-7, toxicity data used.
1408	Glucose, D-; (Dextrose, anhydrous)	50-99-7	0.4	1.25	7.5	500	mg/m3	Woman TDlo ex SAX, 20-fold lower value in RTECS ignored.
1409	Glutamic acid, L-; ((S)-(+)-Glutamic acid)	56-86-0	2	6	40	200	mg/m3	
1410	**Gluteraldehyde**	**111-30-8**	0.05	**0.2**	**1**	**5**	ppm	**ERPG-1, -2, -3**
1411	Glycerine (mist); (Glycerol, glycerin)	56-81-5	15	125	500	500	mg/m3	T-1 changed.
1412	Glycerine carbonate; (4-Hydroxymethyl]-1,3-dioxolan-2-one)	931-40-8	10	30	50	250	mg/m3	TSCA listed, no toxicity data found.
1413	Glyceryl monostearate; (Octadecanoic acid, monoester with 1,2,3-propanetriol)	31566-31-1	10	30	50	75	mg/m3	
1414	Glycidaldehyde	765-34-4	0.025	0.075	0.5	25	ppm	
1415	Glycidol; (Oxiranemethanol)	556-52-5	2	4	30	150	ppm	Outdated PEL-TWA not used.
1416	Glycidoxypropyltrimethoxysilane; (3-(2,3-Epoxypropoxy) propyltrimetyh-oxysilane)	2530-83-8	150	400	500	500	mg/m3	
1417	Glycidyl acrylate; (2,3-Epoxypropyl acrylate)	106-90-1	0.125	0.4	2.5	12.5	ppm	Human skin contact TClo not used.
1418	Glycine; (Aminoacetic acid)	56-40-6	25	75	500	500	mg/m3	
1419	Glycol carbonate; (Ethylene carbonate)	96-49-1	40	125	500	500	mg/m3	

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1420	Glycolic acid	79-14-1	0.75	0.75	0.75	0.75	mg/m3	
1421	Glycols, polyethylene, dimethyl ether	24991-55-7	75	200	500	500	mg/m3	No pchem data found, SG = 1 assumed.
1422	Glycols, polyethylene, mono(p-nonylphenyl) ether; (Nonoxynol-9)	26027-38-3	0.025	0.075	0.6	60	mg/m3	
1423	Glycoluril; (Acetyleneurea)	496-46-8	10	30	50	250	mg/m3	No toxicity data found.
1424	Glyoxal	107-22-2	0.1	35	75	75	mg/m3	
1425	Goethite; (Iron hydroxide oxide)	1310-14-1	5	7.5	12.5	250	mg/m3	**SAR**
1426	Gold	7440-57-5	7.5	25	100	100	mg/m3	
1427	Graphite; (Mineral carbon)	7782-42-5	2	6	10	500	mg/m3	
1428	Grease; (Animal grease, inedible)	68153-81-1	10	30	50	250	mg/m3	No toxicity data found.
1429	Guanidine, N-methyl-N'-nitro-N-nitroso-	70-25-7	0.125	0.35	2.5	40	mg/m3	
1430	Guanidinehydrochloride	50-01-1	2	6	40	200	mg/m3	SAX MW wrong
1431	Hafnium	7440-58-6	0.5	1.5	2.5	50	mg/m3	
1432	Hafnium oxide	12055-23-1	0.59	1.77	3	59	mg/m3	
1433	Halon 1211; (Bromochlorodifluoromethane)	353-59-3	12.5	40	250	5000	ppm	
1434	Hansa yellow	13515-40-7	10	30	50	250	mg/m3	
1435	Helium	7440-59-7	65000	65000	230000	400000	ppm	Simple asphyxiant.

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1436	Hematoxylin	517-28-2	10	30	50	50	mg/m3	
1437	Heptachlor	76-44-8	0.5	0.5	0.5	35	mg/m3	
1438	Heptachlor epoxide; (Epoxyheptachlor)	1024-57-3	0.05	0.15	6	6	mg/m3	T-0, T-1, T-2 changed.
1439	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/m3	
1440	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/m3	
1441	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/m3	
1442	Heptadecane	629-78-7	15	50	350	***1500***	ppm	See LEL Formattinng Note.
1443	Heptafluorobutyric acid	375-22-4	0.6	2	12.5	60	mg/m3	
1444	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	75	mg/m3	
1445	Heptane	142-82-5	440	440	440	750	ppm	
1446	Heptanoic acid	111-14-8	5	15	100	600	ppm	
1447	Heptanol, 1-; (Heptyl alcohol)	111-70-6	3.5	10	500	500	mg/m3	
1448	Heptene, 1-	592-76-7	1500	5000	40000	200000	ppm	
1449	Hexacarbonylchromium; (Chromium hexacarbonyl)	13007-92-6	0.05	1.25	1.25	1.25	mg/m3	T-1 changed.
1450	Hexachloroacetone	116-16-5	0.4	1.25	7.5	200	mg/m3	

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1451	Hexachlorobenzene	118-74-1	0.002	0.006	2	200	mg/m3	
1452	**Hexachlorobutadiene**	**87-68-3**	0.02	**1**	**3**	**10**	ppm	**ERPG-1, -2, -3**
1453	Hexachlorocyclohexane, alpha-; (Benzene hexachloride-alpha-isomer)	319-84-6	0.5	1.5	2.5	500	mg/m3	Toxicity data updated, T-2 changed.
1454	Hexachlorocyclohexane, beta-1,2,3,4,5,6-; (Benzene hexachloride, trans-alpha-)	319-85-7	0.5	1.5	2.5	500	mg/m3	Toxicity data updated, T-2 changed.
1455	Hexachlorocylopentadiene	77-47-4	0.01	0.0179	0.0179	0.0179	ppm	
1456	Hexachlorodibenzodioxin, 1,2,3,4,7,8-; (HexaCDD, 1,2,3,4,7,8-)	39227-28-6	0.0004	0.00125	0.0075	0.4	mg/m3	
1457	Hexachlorodibenzofuran, 1,2,3,4,7,8-	70648-26-9	0.0025	0.0075	0.06	0.3	mg/m3	
1458	Hexachlorodibenzofuran, 1,2,3,6,7,8-	57117-44-9	0.00075	0.0025	0.015	0.075	mg/m3	
1459	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/m3	
1460	Hexachlorodibenzofuran, 2,3,4,6,7,8-	60851-34-5	0.0005	0.0015	0.01	0.05	mg/m3	
1461	Hexachlorodibenzo-p-dioxin, 1,2,3,6,7,8-	57653-85-7	0.005	0.015	0.1	0.5	mg/m3	SAX name differs from other sources, "4" changed to "6"
1462	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/m3	
1463	Hexachloroethane	67-72-1	1	3	40	300	ppm	
1464	Hexachloronaphthalene	1335-87-1	0.2	0.2	0.2	2	mg/m3	
1465	Hexachlorophene	70-30-4	10	10	20	200	mg/m3	
1466	Hexachloropropene	1888-71-7	0.15	0.4	3	15	ppm	

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1467	Hexadecanamine, 1-	143-27-1	0.125	0.35	2.5	75	mg/m3	
1468	Hexadecane	544-76-3	3	7.5	60	500	mg/m3	
1469	Hexadecanoic acid; (Palmitic acid)	57-10-3	25	50	50	50	mg/m3	
1470	Hexadecanol, 1-	36653-82-4	2.5	7.5	60	300	mg/m3	
1471	Hexadecene, 1-	629-73-2	0.4	1.25	10	50	ppm	LD>10 g/kg, and LC>8500 mg/m3.
1472	Hexadecylpyridinium chloride, 1-; (Cepacol chloride)	123-03-5	0.075	0.25	2	10	mg/m3	
1473	Hexadecyltrimethylammonium chloride	112-02-7	2.5	7.5	50	250	mg/m3	Mouse iv LD50 ex HSDB.
1474	Hexafluoro-2-propanol, 1,1,1,3,3,3-	920-66-1	7.5	25	150	750	ppm	
1475	**Hexafluoroacetone**	**684-16-2**	0.1	0.1	**0.20**	**80**	ppm	**New interim AEGL-2, -3. ERPG-2, -3.** T-1, T-2, T-3 changed.
1476	Hexafluorobenzene	392-56-3	150	500	1500	1500	ppm	
1477	Hexafluorobutyne-2; (1,1,1,4,4,4-Hexafluoro-2-butyne)	692-50-2	0.3	1	6	35	ppm	
1478	Hexafluoroethane; (Freon 116; Perfluoroethane)	76-16-4	40000	40000	40000	40000	ppm	LC > 20 pph
1479	**Hexafluoropropylene; (Hexafluoropropene)**	**116-15-4**	0.1	**40**	**91**	**480**	ppm	**New interim AEGL-1, -2, -3. ERPG-1, -2, -3.** T-1, T-2 changed.
1480	Hexafluoropropylene-vinylidene fluoride polymer; (Viton)	9011-17-0	10	30	50	250	mg/m3	TSCA listed, no toxicity data, polymer. MSDS not useful
1481	Hexamethylcyclotrisiloxane	541-05-9	10	30	200	500	mg/m3	Based on other silanes

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1482	Hexamethyldisilazane	999-97-3	12.5	40	250	350	mg/m3	
1483	Hexamethyldisiloxane	107-46-0	40	125	300	300	ppm	
1484	Hexamethylene diisocyanate polymer	28182-81-2	7.5	25	200	500	mg/m3	
1485	Hexamethylene diisocyanate; (1,6-Diisocyanatohexane)	822-06-0	0.005	0.015	0.2	3.5	ppm	
1486	Hexamethyleneimine	111-49-9	15	40	300	500	mg/m3	T-0 changed.
1487	Hexamethylenetetraamine hydrochloride	58713-21-6	10	30	50	250	mg/m3	
1488	Hexamethylenetetraamine; (Methenamine)	100-97-0	10	30	500	500	mg/m3	
1489	Hexamethylphosphoramide	680-31-9	0.04	0.125	0.75	150	ppm	
1490	Hexamethyltetracosane, 2,6,10,15,19,23-; (Squalane)	111-01-3	5	15	100	500	ppm	No toxicity data found.
1491	Hexanal	66-25-1	12.5	35	200	200	ppm	
1492	**Hexane**	**110-54-3**	50	400	***3300***	***8600***	ppm	**Interim AEGL-2, -3.** See LEL Formattinng Note.
1493	Hexanediol diacrylate, 1,6-	13048-33-4	1	3.5	25	500	mg/m3	
1494	Hexanediol, 1,6-; (Hexamethylene glycol)	629-11-8	50	150	500	500	mg/m3	
1495	Hexanehexol, 1,2,3,4,5,6-; (Mannitol)	69-65-8	500	500	500	500	mg/m3	
1496	Hexanenitrile	628-73-9	0.5	1.5	10	50	ppm	
1497	Hexanethiol, 1-; (N-Hexylmercaptan)	111-31-9	0.025	0.075	0.5	100	ppm	

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No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1498	Hexanitrostilbene	20062-22-0	0.25	0.75	6	30	mg/m3	TSCA listed, no pchem or toxicity data found. Used 4-Nitrostilbene, 4003-94-5, as surrogate.
1499	Hexanoic acid	142-62-1	5	15	100	500	mg/m3	
1500	Hexanol, 2-; (2-Hydroxyhexane)	626-93-7	5	15	100	500	mg/m3	
1501	Hexanol, n-; (n-Hexyl alcohol)	111-27-3	0.75	2	15	75	ppm	
1502	Hexanone, 2-; (Methyl n-butyl ketone)	591-78-6	5	10	***1500***	***1600***	ppm	See LEL Formattinng Note.
1503	Hexanone, 3-; (Ethyl propyl ketone)	589-38-8	4	12.5	75	400	ppm	
1504	Hexanoyl chloride	142-61-0	1.5	5	35	150	mg/m3	TSCA listed, no toxicity data found. MSDS states "corrosive lacrynator, HHR = 3 estimated.
1505	Hexaphenylcyclotrisiloxane	512-63-0	7.5	25	150	500	mg/m3	TSCA listed, no toxicity data. MSDS HHR = 2.
1506	**Hexene, 1-**	**592-41-6**	50	75	**500**	***5000***	ppm	**New ERPG-2, -3. All Ts changed.** See LEL Formattinng Note.
1507	Hexylene glycol	107-41-5	10	10	25	350	ppm	T-1 changed.
1508	**Hexyltrichlorosilane**	**928-65-4**	0.2	**0.60**	**7.3**	**33**	ppm	Added. **New interim AEGL-1, -2, -3.**
1509	Holmium	7440-60-0	7.5	25	150	500	mg/m3	
1510	Holmium trioxide	12055-62-8	10	30	50	250	mg/m3	No toxicity data found.
1511	Humic acid, sodium salt	68131-04-4	2	6	40	200	mg/m3	No pchem data found.
1512	**Hydrazine**	**302-01-2**	0.1	**0.10**	**13**	**35**	ppm	**Interim AEGL-1, -2, -3.**

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No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1513	Hydrazine hydrate, aequeous solutions	10217-52-4	0.03	0.0625	0.0625	0.0625	mg/m3	
1514	Hydrazine hydrate; (Hydrazine monohydrate)	7803-57-8	0.003	0.0075	0.0625	50	mg/m3	
1515	Hydrazine hydrochloride; (Hydrazine monochloride)	2644-70-4	0.0075	0.025	0.04	50	mg/m3	
1516	Hydrazine nitrate; (Hydrazinium nitrate)	13464-97-6	1	3	5	25	mg/m3	
1517	Hydrazine sulfate	10034-93-2	0.6	2	15	250	mg/m3	.
1518	Hydrazine, dihydrochloride	5341-61-7	25	75	500	500	mg/m3	
1519	**Hydriodic acid; (Hydrogen iodide)**	**10034-85-2**	0.35	**1.0**	**22**	**120**	ppm	**Interim AEGL-1, -2, -3.**
1520	**Hydrobromic acid; (Hydrogen bromide)**	**10035-10-6**	1	**1.0**	**22**	**120**	ppm	**Interim AEGL-1, -2, -3.**
1521	Hydrogen	1333-74-0	***65000***	***65000***	***230000***	***400000***	ppm	Simple asphyxiant. See LEL Formattinng Note.
1522	**Hydrogen chloride; (Hydrochloric acid)**	**7647-01-0**	0.5	**1.8**	**22**	**100**	ppm	**Final AEGL-1, -2, -3.**
1523	**Hydrogen cyanide; (Hydrocyanic acid)**	**74-90-8**	1.9	**2.0**	**7.1**	**15**	ppm	**Final AEGL-1, -2, -3.**
1524	**Hydrogen fluoride; (Hydrofluoric acid)**	**7664-39-3**	1	**1.0**	**24**	**44**	ppm	**Final AEGL-1, -2, -3.**
1525	**Hydrogen peroxide**	**7722-84-1**	1	**10**	**50**	**100**	ppm	**ERPG-1, -2, -3**
1526	Hydrogen peroxide - 30%	7722-84-1a	10	33.3	167	333	ppm	Pchem data ex ChemFinder.
1527	Hydrogen potassium phthalate; (Phthalic acid, monopotassium salt; Potassium acid phthalate; Potassium biphthalate)	877-24-7	12.5	40	250	500	mg/m3	Rat LD50 > 3200 mg/kg.

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No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1528	**Hydrogen selenide**	**7783-07-5**	0.05	0.1	**0.73**	**2.2**	ppm	**Interim AEGL-2, -3.**
1529	**Hydrogen sulfide**	**7783-06-4**	0.51	**0.51**	**27**	**50**	ppm	**Interim AEGL-1, -2, -3.**
1530	Hydrogenated terphenyl	61788-32-7	0.5	1.5	2.5	500	mg/m3	
1531	Hydroquinone	123-31-9	2	3	20	50	mg/m3	
1532	Hydrotreated (mild & severe) heavy paraffinic distillates	64742-54-7	60	150	500	500	mg/m3	
1533	Hydrotreated middle distillate (Petroleum base oil)	64742-46-7	3	7.5	60	300	mg/m3	
1534	Hydroxy-2-methylpropanoic acid, 2-; (2-Methyllactic acid)	594-61-6	10	30	50	250	mg/m3	No toxicity data found.
1535	Hydroxy-4'-hydroxyethoxy-2-methylpropiophenone, 2-	106797-53-9	15	50	350	500	mg/m3	No pchem data found.
1536	Hydroxy-4-methyl-2-pentanone, 4-; (Diacetone alcohol)	123-42-2	50	50	50	***1800***	ppm	See LEL Formattinng Note.
1537	Hydroxyapatite; (Calcium hydroxyapatite)	1306-06-5	12.5	35	60	500	mg/m3	**SAR**
1538	Hydroxybenezenesulfonic acid, 4-; (4-Hydroxyphenylsulfonic acid)	98-67-9	25	75	500	500	mg/m3	
1539	Hydroxybenzoic acid, 4-; (p-Salicylic acvid)	99-96-7	20	60	400	500	mg/m3	Added.
1540	Hydroxybenzotriazole, 1-; (1-Hydroxybenzotriazole hydrate)	2592-95-2	40	125	500	500	mg/m3	ChemFinder pchem data.
1541	Hydroxyethyl acrylate, 2-; (Acrylic acid, 2-hydroxyethyl ester)	818-61-1	0.35	1	6	50	ppm	
1542	Hydroxyethyl methacrylate, 2-	868-77-9	0.1	0.3	2	500	mg/m3	
1543	Hydroxyethyl)-1-piperazineethanesulfonic acid, 4-(2-	7365-45-9	1.25	4	25	125	mg/m3	Quail LD50 > 316 mg/kg

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1544	Hydroxyethylenediaminetriacetic acid, N-	150-39-0	1.25	4	30	150	mg/m3	
1545	Hydroxyethylidene-1,1-diphosphonic acid, 1-; (Hydroxyethylidine bisphosphonic acid, 1-)	2809-21-4	10	30	50	500	mg/m3	
1546	Hydroxylamine	7803-49-8	0.25	0.75	5	25	mg/m3	
1547	Hydroxylamine chloride; (Hydroxylamine hydrochloride)	5470-11-1	10	35	60	60	mg/m3	
1548	Hydroxylamine nitrate	13465-08-2	7.62	15.2	26	150	mg/m3	Concentration limits as HNO3
1549	Hydroxylamine sulfate; (Oxammonium sulfate)	10039-54-0	4	10	75	400	mg/m3	
1550	Hydroxymethanesulfinic acid, monosodium salt; (Formaldehyde hydrosulfite)	149-44-0	15	50	350	500	mg/m3	
1551	Hydroxy-N-phenylbenzamide, N-; (Phenylbenzohydroxamic acid, N-)	304-88-1	10	30	50	250	mg/m3	TSCA listed, no toxicity or pchem data found. MSDS data.
1552	Hydroxyphenyl)benzothiazole, 2(2-	3411-95-8	35	100	500	500	mg/m3	Mouse LD lo > 4 g/kg
1553	Hydroxyphenylacetic acid, alpha-	90-64-2	15	50	350	500	mg/m3	
1554	Hydroxypropyl cellulose	9004-64-2	40	125	500	500	mg/m3	MF, MW ex ChemFinder.
1555	Hydroxyquinoline sulfate, 8-	134-31-6	5	15	100	500	mg/m3	
1556	Hypophosphorous acid-d3; (Hydrophosphorus acid-d3 solution, 50 wt.% in D2O)	57583-56-9	0.75	2.5	15	300	ppm	Not found in databases. MW, MF, SG from MSDS, no HHR. Used CASRN 13598-36-2, H3.O3.P toxicity.
1557	Hypophosphorus acid; (Phosphinic acid)	6303-21-5	10	30	50	250	mg/m3	
1558	Imidazole	288-32-4	4	12.5	75	100	mg/m3	

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Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1559	Imidazole hydrochloride	1467-16-9	7.5	25	150	500	mg/m3	MSDS HHR = 2
1560	Imidazole, substituted; (1,3,5-Triazine-2,4-diamine, 6-[2-(2-metyhyl-1H-imidazol-1-yl)ethyl]; Curezol 2MEA-PW)	38668-46-1	10	30	50	250	mg/m3	Added. TSCA listed, no toxicity data found, no MSDS found.
1561	Iminodiacetic acid	142-73-4	1	3	20	100	mg/m3	
1562	Iminodiacetic acid, disodium salt hydrate	17593-73-6	35	100	500	500	mg/m3	Not found in databases. ChemFinder irritation and pchem data..
1563	Indan	496-11-7	40	125	500	500	mg/m3	
1564	Indene	95-13-6	5	7.5	60	300	ppm	T-0, T-1 changed.
1565	Indeno(1,2,3-cd)pyrene	193-39-5	0.15	0.5	3.5	15	mg/m3	
1566	Indigo carmine; (FD&C blue No 2)	860-22-0	20	60	75	75	mg/m3	
1567	Indium	7440-74-6	0.1	0.1	0.6	3.5	mg/m3	
1568	Indium oxide (vapor)	1312-43-2b	0.107	0.321	0.535	2.5	mg/m3	
1569	Indium sulfate	13464-82-9	0.225	0.676	1.13	4	mg/m3	
1570	Indium trichloride	10025-82-8	0.193	0.578	1	1	mg/m3	
1571	Indium(III) oxide	1312-43-2a	0.121	0.363	100	500	mg/m3	
1572	Indole-3-carboxaldehyde, 1H-; (3-Formylindole)	487-89-8	0.75	2.5	15	75	ppm	
1573	Iodic acid	7782-68-5	0.0139	0.02	0.139	2.77	mg/m3	T-0, T-1 changed.

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1574	Iodide, Ammonium, tetraethyl-; (Tetraethylammoniumiodide)	68-05-3	0.0203	0.0608	0.101	15	mg/m3	T-0, T-1, T-2 changed.
1575	**Iodine**	**7553-56-2**	0.01	**0.1**	**0.5**	**5**	ppm	**ERPG-1, -2, -3**
1576	Iodine 125	17144-19-3	0.01	0.1	0.5	5	ppm	Used Iodine PACs. T-0 changed.
1577	Iodobenzene	591-50-4	0.0161	0.0482	500	500	mg/m3	T-0, T-1 changed.
1578	Iodoethane; (Ethyl iodide)	75-03-6	0.0123	0.0369	0.0615	500	ppm	T-0, T-1, T-2 changed.
1579	Iodoheptafluoropropane, 1-; (Heptafluoropropyl iodide)	754-34-7	0.0233	0.07	0.117	12500	ppm	T-0, T-1, T-2 changed. BP and SG ex ChemFinder.
1580	Iodopentane, 1-	628-17-1	0.0156	0.0468	0.078	400	mg/m3	T-0, T-1, T-2 changed.
1581	Iotalamic acid	2276-90-6	0.0161	0.0484	1.25	500	mg/m3	T-0, T-1 changed.
1582	Iridium	7439-88-5	6	20	125	500	mg/m3	HSDB has three entries, data are conflicting, rat oral LD50 = 4.67 mg/kg or 1560 mg/kg.
1583	Iron	7439-89-6	1.5	4	30	500	mg/m3	
1584	Iron carbide	12011-67-5	5.36	16.1	26.8	125	mg/m3	Treated as insoluble Fe fume.
1585	Iron hydroxide oxide	20344-49-4	15.9	47.7	79.6	400	mg/m3	
1586	Iron oxide; (Ferric oxide)	1309-37-1	5	15	40	500	mg/m3	PEL-TWA ignored.
1587	**Iron pentacarbonyl**	**13463-40-6**	0.06	0.06	**0.060**	**0.18**	ppm	**Final AEGL-2, -3.**
1588	Iron(II) chloride tetrahydrate	13478-10-9	3.56	3.56	7.5	40	mg/m3	

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1589	Iron(II) perchlorate hexahydrate	13520-69-9	6.33	19	31.6	150	mg/m3	Not found in databases, assumed MF, calculated MW.
1590	Iron(II,III) oxide; (Ferrosoferric oxide; Iron(III) oxide)	1317-61-9	20.7	31.1	51.8	250	mg/m3	No toxicity data found.
1591	Iron(III) perchlorate	13537-24-1	6.34	19	31.7	150	mg/m3	TSCA listed, no toxicity or pchem data found. Assumed soluble.
1592	Iron(III) sulfate heptahydrate	35139-28-7	4.98	14.9	25	500	mg/m3	Iron(II) found under CASRN = 7782-63-0, used its toxicity data.
1593	Isoamyl acetate; (Isopentyl acetate)	123-92-2	100	100	200	***1000***	ppm	See LEL Formattinng Note.
1594	Isoamyl alcohol (primary); (3-Methyl-1-butanol)	123-51-3	100	125	125	500	ppm	
1595	Isoamyl alcohol (secondary); (3-Pentanol)	584-02-1	100	125	125	500	ppm	
1596	Isoamyl nitrite; (Isopentyl nitrite)	110-46-3	3	7.5	60	300	ppm	
1597	Isobenzan	297-78-9	0.5	1.5	2	2	mg/m3	
1598	Isobutanol-2-amine	124-68-5	0.03	0.075	0.6	500	mg/m3	
1599	Isobutyl acetate	110-19-0	150	150	250	***1300***	ppm	See LEL Formattinng Note.
1600	Isobutyl alcohol	78-83-1	100	***1250***	***1600***	***1600***	ppm	See LEL Formattinng Note.
1601	Isobutyl chloride; (1-Chloro-2-methylpropane)	513-36-0	0.4	1.25	7.5	40	ppm	No toxicity data found.
1602	**Isobutyl Chloroformate; (Chloroformic acid butyl ester)**	**543-27-1**	0.2	0.6	**2.2**	**6.7**	ppm	**New interim AEGL-2, -3.** Added.
1603	Isobutyl isobutyrate	97-85-8	150	500	500	500	mg/m3	
1604	Isobutylamine	78-81-9	5	5	6	35	ppm	

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1605	Isobutyraldehyde	78-84-2	25	300	1500	1500	ppm	
1606	Isobutyric acid	79-31-2	0.3	1	6	35	ppm	
1607	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.
1608	**Isobutyronitrile**	**78-82-0**	8	**10**	**18**	**68**	ppm	**Interim AEGL-2, -3, ERPG-1, -2, -3.**
1609	Isocyanate-bearing waste (as CNs N.O.S.)	z-0024	5	5	5	25	mg/m3	
1610	**Isocyanatoethyl methacrylate, 2-**	**30674-80-7**	0.02	0.06	**0.1**	**1**	ppm	**ERPG-2, -3.**
1611	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".
1612	Isocyanic acid, 3,4-dichlorophenyl ester; (3,4-Dichlorophenyl isocyanate)	102-36-3	2.5	7.5	14	500	mg/m3	SAX and RTECS tox data conflict
1613	Isodrin	465-73-6	1.25	4	7	7	mg/m3	
1614	Isonate 181 MDI prepolymer	z-0113	7.5	25	100	225	mg/m3	Used 25% 26447-40-5, 25% 101-68-8, 25% 68092-58-0/, 25% z-0112). T-0, T-1, T-3 changed.
1615	Isooctane; (2,2,4-Trimethylpentane)	540-84-1	300	385	385	1000	ppm	PEL-TWA suppressed. T-1, T-2, T-3 changed.
1616	Isopentane; (Ethyldimethylmethane; 2-Methylbutane)	78-78-4	610	610	610	***20000***	ppm	See LEL Formattinng Note.
1617	Isophorone	78-59-1	5	5	5	200	ppm	
1618	Isophorone diisocyanate	4098-71-9	0.005	0.02	0.135	6	ppm	
1619	Isophthalic acid	121-91-5	10	30	50	500	mg/m3	

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Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1620	**Isoprene**	**78-79-5**	2	**5**	***1000***	***4000***	ppm	**ERPG-1, -2, -3.** See LEL Formattinng Note.
1621	Isopropyl acetate	108-21-4	200	200	200	***1800***	ppm	T-0, T-1, T-2 changed. See LEL Formattinng Note.
1622	Isopropyl alcohol	67-63-0	400	400	400	***2000***	ppm	T-2 changed. See LEL Formattinng Note.
1623	Isopropyl chloride; (2-Chloropropane)	75-29-6	50	150	***15000***	***15000***	ppm	See LEL Formattinng Note.
1624	**Isopropyl chloroformate; (Isopropyl chlorocarbonate)**	**108-23-6**	0.15	0.4	**3.3**	**10**	ppm	**New interim AEGL-2, -3. ERPG-2, -3.** All Ts changed.
1625	Isopropyl ether; (Diisopropyl ether)	108-20-3	310	310	310	***1400***	ppm	See LEL Formattinng Note.
1626	**Isopropyl methanefluoro-phosphonate; (Sarin; GB)**	**107-44-8**	0.00015	**0.00048**	**0.0060**	**0.022**	ppm	**Final AEGL-1, -2, -3.**
1627	Isopropyl nitrate	1712-64-7	1.5	5	150	750	ppm	RTECS replaced SAX data. T-2, T-3 changed.
1628	Isopropyl titanate(IV); (Titanium(IV) isopropoxide)	546-68-9	30	75	500	500	mg/m3	
1629	Isopropylamine; (2-Propanamine)	75-31-0	5	10	150	750	ppm	
1630	Isopropylmagnesium chloride; (Chloro(1-methylethyl)magnesium)	1068-55-9	1	3	20	100	mg/m3	No toxicity data found. Rat LD50 estimated from other Mg compounds
1631	Isopropylmethylpyrazolyl dimethylcarbamate; (Isolan)	119-38-0	1	3.5	5.6	5.6	mg/m3	
1632	Isopropyltoluene, 4-; (p-Cymene)	99-87-6	75	250	500	500	mg/m3	Added.
1633	Jeffamine M-600	77110-54-4	10	30	50	250	mg/m3	Not found in databases, no MSDS, assumed nonvolatile.
1634	**Jet fuels (JP-5 and JP-8)**	**70892-10-3**	200	**290**	**1100**	1100	mg/m3	**Interim AEGL-1, -2.** (also CASRN = 8008-20-6). T-0, T-2, T-3 changed.

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No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1635	Kaolin; (Aluminum silicate hydroxide)	1332-58-7	5	6	125	500	mg/m3	
1636	Kepone; (Chlordecone)	143-50-0	0.001	0.003	0.6	40	mg/m3	
1637	**Kerosene**	**8008-20-6**	200	**290**	**1100**	1100	mg/m3	**Interim AEGL-1, -2.** All Ts changed.
1638	**Ketene; (Carbomethene, Ethenone)**	**463-51-4**	0.19	**0.19**	**0.66**	**2.0**	ppm	**New interim AEGL-1, -2, -3.** All Ts changed.
1639	Krypton	7439-90-9	65000	65000	230000	400000	ppm	Simple asphyxiant.
1640	Lactic acid	50-21-5	15	40	300	500	mg/m3	
1641	Lactic acid, sodium salt, DL-; (Propanoic acid, 2-hydroxy-, monosodium salt)	312-85-6	10	30	50	250	mg/m3	TSCA listed, no toxicity or pchem data found.
1642	Lactonitrile	78-97-7	3.5	10	18	150	mg/m3	
1643	Lactose, beta-D; (beta-D-Glucopyranose, 4-O-beta-D-galactopyranosyl-)	5965-66-2	10	30	50	250	mg/m3	No toxicity data found.
1644	Lanthanum	7439-91-0	10	30	50	250	mg/m3	
1645	Lanthanum alizarin	z-0026	10	30	50	250	mg/m3	
1646	Lanthanum boride	12008-21-8	14.7	44	75	350	mg/m3	Used PNOS default as La.
1647	Lanthanum carbonate	6487-39-4	10	30	50	250	mg/m3	
1648	Lanthanum chloride	10099-58-8	6	20	150	500	mg/m3	T-2 changed.
1649	Lanthanum fluoride	13709-38-1	8.59	8.59	50	250	mg/m3	

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No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1650	Lanthanum hydroxide	14507-19-8	0.2	0.75	2	2.5	mg/m3	**SAR**
1651	Lanthanum nitrate	10099-59-9	0.4	1.25	7.5	500	mg/m3	
1652	Lanthanum oxide	1312-81-8	40	125	500	500	mg/m3	
1653	Lanthanum phosphate	14913-14-5	0.3	0.75	3	3	mg/m3	**SAR**
1654	Lanthanum(III) nitrate hexahydrate	10277-43-7	1.5	5	35	150	mg/m3	
1655	Laromin C 260; (bis(4-Amino-3-methylcyclohexyl) methane; Dimethyldicyane)	6864-37-5	1.5	5	35	150	mg/m3	Added, pchem data ex Sigma-Aldrich
1656	Lauryl sulfate; (Dodecyl sulfate)	151-41-7	5	15	100	500	mg/m3	
1657	Lead	7439-92-1	0.05	0.15	0.25	100	mg/m3	
1658	Lead acetate(II), trihydrate; (Bis(acetato)trihydroxytrilead)	6080-56-4	0.0915	0.275	100	183	mg/m3	
1659	Lead acetate, basic; (Lead subacetate)	1335-32-6	0.065	0.195	130	130	mg/m3	
1660	Lead acetate; (Lead diacetate)	301-04-2	0.0785	0.235	75	157	mg/m3	
1661	Lead acid arsenate; (Dibasic lead arsenate)	7784-40-9	0.0838	0.251	168	168	mg/m3	
1662	Lead arsenate	3687-31-8	0.012	0.012	0.012	30	mg/m3	
1663	Lead bromide	10031-22-8	0.0886	0.266	0.443	177	mg/m3	
1664	Lead carbonate	598-63-0	0.0645	0.193	4	500	mg/m3	

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No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1665	Lead chloride	7758-95-4	0.0671	0.201	7.5	134	mg/m3	
1666	Lead chromate	7758-97-6	0.0311	0.186	1	93.2	mg/m3	
1667	Lead dioxide	1309-60-0	0.0577	0.1731	20	115	mg/m3	
1668	Lead fluoborate	13814-96-5	0.0919	0.276	0.459	184	mg/m3	Only stable in aequeous solution.
1669	Lead fluoride	7783-46-2	0.0592	0.178	15	118	mg/m3	T-2 changed.
1670	Lead hydroxide	19783-14-3	0.0582	0.175	0.3	1.5	mg/m3	
1671	Lead iodide	10101-63-0	0.111	0.334	0.556	222	mg/m3	
1672	Lead nitrate	10099-74-8	0.0799	0.6	4	160	mg/m3	
1673	Lead nitrite	13826-65-8	0.0722	0.217	0.361	1.5	mg/m3	
1674	Lead oxalate	814-93-7	0.0712	0.214	0.356	1.5	mg/m3	
1675	Lead oxide; (Lead monoxide)	1317-36-8	0.0539	0.0539	0.0539	108	mg/m3	
1676	Lead phosphate	7446-27-7	0.0653	0.196	30	150	mg/m3	
1677	Lead sulfate; (Sulfuric acid, lead(2+) salt (1:1))	7446-14-2	0.0732	0.2196	30	146	mg/m3	OHMTADS, TSCA, ChemFinder list CASRN = 15739-80-7, deleted as a separate entry.
1678	Lead sulfide	1314-87-0	0.0577	0.173	350	500	mg/m3	
1679	Lead tetroxide	1314-41-6	0.0551	0.165	0.276	110	mg/m3	

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 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1680	Lead(II) arsenite	10031-13-7	0.0281	0.0843	0.14	14	mg/m3	
1681	Lead(II) perchlorate hydrate	13453-62-8	0.111	0.333	0.555	100	mg/m3	Not found in databases. ChemFinder pchem data.
1682	Leco set 7007 powder	z-0027	10	30	50	250	mg/m3	Mixture: 80-62-6 (94-96%), 2082-81-7 (3%), 5995-42-6 ()>8%), 99-97-8 (0.7%)
1683	Leptophos	21609-90-9	6	15	30	30	mg/m3	
1684	**Lewisite 2; (Bis(2-chlorovinyl)chloroarsine)**	**40334-69-8**	0.12	0.12	**0.12**	**0.74**	mg/m3	**Interim AEGLs-2,-3.** All Ts changed.
1685	**Lewisite 3; (Tris(2-chlorovinyl)arsine)**	**40334-70-1**	0.12	0.12	**0.12**	**0.74**	mg/m3	**Interim AEGLs-2,-3.** All Ts changed.
1686	Lignosulfonate (aqueous)	8062-15-5	10	30	500	500	mg/m3	
1687	Limonene, d-	5989-27-5	30	90	150	350	ppm	WEEL CASRN = 138-86-3. HSDB: (L)-Limonene for CASRN = 5989-54-8. H&N has both.
1688	Lindane; (gamma-Benzenehexachloride)	58-89-9	0.5	1.5	50	50	mg/m3	
1689	Linseed oil	8001-26-1	0.5	1.5	10	60	mg/m3	
1690	Liquified petroleum gas; (L.P.G.)	68476-85-7	1000	***2000***	***2000***	***2000***	ppm	See LEL Formattinng Note.
1691	Lithium	7439-93-2	10	30	50	400	mg/m3	
1692	Lithium acetate dihydrate	6108-17-4	12.5	35	250	500	mg/m3	Used Li acetate, CASRN = 546-89-4, mouse LDlo
1693	Lithium aluminate	12003-67-7	12.2	36.6	61.1	300	mg/m3	TSCA listed, no toxicity data.
1694	Lithium aluminum oxide; (Lithium aluminate)	11089-89-7	10	30	50	250	mg/m3	

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1695	Lithium aluminum silicate; (Petalite)	1302-66-5	2	6	10	50	mg/m3	
1696	Lithium azide	19597-69-4	10	10	10	10	mg/m3	
1697	Lithium borohydride; (Lithium tetrahydroborate)	16949-15-8	4.03	12.1	20.2	35	mg/m3	
1698	Lithium bromide	7550-35-8	1	7	15	500	mg/m3	
1699	Lithium carbonate	554-13-2	0.2	0.6	4	200	mg/m3	
1700	Lithium chloride	7447-41-8	0.5	1.5	10	60	mg/m3	
1701	Lithium chromate; (Lithium chromate dihydrate)	14307-35-8	0.016	0.479	0.798	47.9	mg/m3	
1702	Lithium deuteride	13587-16-1	0.0282	0.0282	0.1	0.5	mg/m3	Used Lithium hydride limits. T-0, T-1 changed.
1703	Lithium diisopropylamide; (LDA)	4111-54-0	10	30	50	250	mg.m3	TSCA listed, MF differs from ChemFinder, no toxicity data found.
1704	Lithium fluoride	7789-24-4	3.41	10.2	17.1	341	mg/m3	
1705	**Lithium hydride**	**7580-67-8**	0.025	**0.025**	**0.100**	**0.500**	mg/m3	**ERPG-1, -2, -3**
1706	Lithium hydroxide	1310-65-2	0.05	0.15	1	100	mg/m3	
1707	Lithium hydroxide monohydrate	1310-66-3	0.05	0.15	1	100	mg/m3	Not found in databases, used LiOH, CASRN 1310-65-2, values.
1708	Lithium iodide	10377-51-2	10	30	50	250	mg/m3	TSCA, HC&P, H&N listed, no toxicity data found.
1709	Lithium metaborate, anhydrous	13453-69-5	2	6	10	50	mg/m3	MW and MF ex HC&P.
1710	Lithium molybdate	13568-40-6	9.06	27.2	45.3	200	mg/m3	

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1711	Lithium niobium oxide; (Lithium niobate)	12031-63-9	5	15	25	500	mg/m3	
1712	Lithium nitrate	7790-69-4	10	30	50	250	mg/m3	
1713	Lithium nitride	26134-62-3	10	10	10	10	mg/m3	Reacts with water
1714	Lithium nitrite	13568-33-7	0.025	0.06	0.4	40	mg/m3	HC&P: LiNO2.H2O MW = 127.96, CASRN = 13568-33-7. TSCA: Li.H.NO2 SAR
1715	Lithium perchlorate, anhydrous	7791-03-9	0.0005	0.0015	0.01	0.06	mg/m3	IRIS LOEL used, no ther toxicity data found
1716	Lithium stearate	4485-12-5	60	150	500	500	mg/m3	Probable hmn LD = 0.5-5 g/kg
1717	Lithium sulfate	10377-48-7	0.15	0.5	3.5	500	mg/m3	
1718	Lithium tetraborate	12007-60-2	10	30	50	250	mg/m3	TSCA, H&N, ChemFinder listed, no toxicity data found. MW=169.12 without 5H2O.
1719	Lithium tetraborate pentahydrate	1303-94-2	1	3	5	25	mg/m3	MF, MW by analogy with Na tetraborate pentahydrate.
1720	Lithium tetrahydroaluminate(1-); (Lithium aluminum hydride)	16853-85-3	2.81	2.81	7.5	35	mg/m3	Al soluble salt.
1721	Lithium triethylborodeuteride; (Super-deuteride)	74540-86-6	10	30	50	250	mg/m3	Not found in databases. MW, MF, SG ex ChemFinder.
1722	Lithium triethylborohydride; (Super-hydride)	22560-16-3	1.5	5	35	150	mg/m3	Not listed in databases. MSDS gives HHR = 3
1723	Lubricating oil, rerefined	68476-77-7	10	30	50	250	mg/m3	TSCA listed, no toxicity or pchem data.
1724	Lutetium	7439-94-3	1.5	5	35	150	mg/m3	TSCA listed, no toxicity data. SRS HHR = 3
1725	Lutetium oxide	12032-20-1	10	30	50	250	mg/m3	

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1726	Lutidine, 2,6-; (2,6-Dimethylpyridine)	108-48-5	75	200	1500	7500	ppm	
1727	Magnesium	7439-95-4	1.25	4	30	150	mg/m3	Toxicity data added. All Ts changed.
1728	Magnesium acetate tetrahydrate	16674-78-5	0.75	2.5	20	100	mg/m3	Not found in databases, used Mg acetate, CASRN = 142-72-3
1729	**Magnesium aluminum phosphide**	**z-0116**	0.67	0.67	**0.67**	**1.2**	ppm	Added. **New Interim AEGL-2, -3**
1730	Magnesium carbonate hydroxide	7760-50-1	10	30	50	250	mg/m3	TSCA listed, no toxicity data, MF, MW from H&N.
1731	Magnesium carbonate; (Magnesite)	546-93-0	15	45	200	500	mg/m3	Toxicity data added. T-1, T-2, T-3 changed.
1732	Magnesium carbonate-magnesium hydroxide, pentahydrate	39409-82-0	48.8	97.7	163	500	mg/m3	Not found in databases. MF, MW ex ChemFinder. MSDS PEL-TWA.
1733	Magnesium chloride	7786-30-3	10	30	50	500	mg/m3	
1734	Magnesium chloride hexahydrate	7791-18-6	75	250	500	500	mg/m3	
1735	Magnesium ethoxide	2414-98-4	47.1	141	235	500	mg/m3	TSCA listed, no toxicity or pchem data.
1736	Magnesium fluoride	7783-40-6	4.1	12.3	20.5	410	mg/m3	
1737	Magnesium formate	557-39-1	10	30	50	250	mg/m3	TSCA listed, no data found. Changed "Y" to "N".
1738	Magnesium hydroxide	1309-42-8	75	200	500	500	mg/m3	
1739	Magnesium iodate tetrahydrate	7790-32-1	10	30	50	250	mg/m3	TSCA listed, no toxicity data. MSDS solid.
1740	Magnesium nitrate hexahydrate	13446-18-9	20	60	500	500	mg/m3	Primary irritant, no toxicity data found.
1741	Magnesium nitrate; (Magnesium(II) nitrate (1:2))	10377-60-3	10	30	50	250	mg/m3	

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1742	Magnesium oxide	1309-48-4	10	30	150	500	mg/m3	
1743	**Magnesium phosphide**	**12057-74-8**	0.2	0.6	**1.0**	**1.8**	ppm	Added. **New Interim AEGL-2, -3**
1744	Magnesium silicate hydrate	1343-90-4	10	30	50	250	mg/m3	
1745	Magnesium silicate; (Florisil)	1343-88-0	10	30	50	500	mg/m3	Human LD > 15 g/kg
1746	Magnesium sulfate (1:1)	7487-88-9	0.5	1.5	10	125	mg/m3	
1747	Magnesium sulfate heptahydrate	10034-99-8	5	15	100	500	mg/m3	
1748	Magnesium(II) nitrate (1:2), hexahydrate	13446-18-9	20	60	500	500	mg/m3	CASRN changed from 10213-15-7. T-2 changed.
1749	Malathion	121-75-5	15	15	15	250	mg/m3	T-1, T-2 changed.
1750	Maleic acid	110-16-7	3	7.5	60	300	mg/m3	PNOS deleted, not appropriate. T-0, T-1 changed.
1751	Maleic acid, disodium salt	371-47-1	25	75	500	500	mg/m3	No pchem data found.
1752	**Maleic anhydride**	**108-31-6**	0.2	**0.2**	**2**	**20**	ppm	**ERPG-1, -2, -3.**
1753	Maleic hydrazide; (3,6-Pyridazinedione,1,2-dihydro-)	123-33-1	0.6	2	12.5	500	mg/m3	
1754	Malic acid, DL-	617-48-1	6	20	125	500	mg/m3	HSDB, TSCA listed. Mouse LD50 1600-3200 mg/kg
1755	Malonic acid; (Carboxyacetic acid)	141-82-2	10	15	100	500	mg/m3	
1756	Mancozeb; (Dithane M-45)	8018-01-7	1	3	200	500	mg/m3	
1757	Manganese	7439-96-5	0.2	3	5	500	mg/m3	

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1758	Manganese carbonate	598-62-9	0.418	6.28	10.5	500	mg/m3	
1759	Manganese dioxide	1313-13-9	0.317	4.75	79.1	500	mg/m3	
1760	Manganese hydroxide	18933-05-6	0.324	4.86	8.1	500	mg/m3	
1761	Manganese nitrite	18488-90-9	0.535	8.02	13.4	500	mg/m3	
1762	Manganese oxalate	640-67-5	0.52	7.81	13	500	mg/m3	
1763	Manganese oxide; (Manganese tetroxide)	1317-35-7	0.278	0.833	69.4	500	mg/m3	
1764	Manganese phosphate	10124-54-6	0.43	6.46	10.8	500	mg/m3	MF changed Previous MF =xMn.PH3O4 ex TSCA.
1765	Manganese tricarbonyl methylcyclopentadienyl	12108-13-3	0.6	0.6	0.6	7.5	mg/m3	
1766	Manganese(II) chloride (1:2); (Manganous chloride)	7773-01-5	0.458	6.87	11.5	100	mg/m3	
1767	Manganese(II) chloride tetrahydrate	13446-34-9	0.721	10.8	180	500	mg/m3	
1768	Manganese(II) nitrate	10377-66-9	0.651	9.77	16.3	500	mg/m3	
1769	Manganese(II) nitrate hydrate	15710-66-4	0.717	10.8	17.9	500	mg/m3	ChemFinder listed.
1770	Manganese(II) sulfate monohydrate	10034-96-5	0.615	9.23	15.4	75	mg/m3	
1771	Manganese(III) oxide	1317-34-6	0.287	4.31	71.8	500	mg/m3	
1772	Manganese(VII) oxide	12057-92-0	0.404	6.06	10.1	50	mg/m3	
1773	Manganous oxide; (Manganese(II) oxide)	1344-43-0	0.258	0.775	6.46	150	mg/m3	

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1774	Manganous sulfate	7785-87-7	0.55	8.25	13.7	500	mg/m3	
1775	Manganous sulfide; (Manganese(II) sulfide)	18820-29-6	0.317	0.95	7.92	500	mg/m3	
1776	Mastic (resin)	61789-92-2	4	12.5	100	500	mg/m3	
1777	Melamine	108-78-1	10	10	10	350	mg/m3	
1778	Mephosfolan	950-10-7	1.5	5	9	9	mg/m3	
1779	Mercaptoacetic acid; (Thioglycolic acid)	68-11-1	1	1	1.25	6	ppm	
1780	Mercaptobenzoic acid, o-	147-93-3	0.2	0.6	4	20	mg/m3	
1781	Mercaptobenzothiazole, 2-; (2-Benzothiazolethiol)	149-30-4	5	15	40	40	mg/m3	
1782	Mercaptoethanol, 2-	60-24-2	0.2	2	12.5	200	ppm	
1783	Mercaptopropionic acid, 3-	107-96-0	0.25	0.75	6	40	mg/m3	
1784	Mercuric acetate	1600-27-7	0.159	0.159	0.159	15.9	mg/m3	All Ts changed.
1785	Mercuric cyanide	592-04-1	0.0315	1.5	12.6	12.6	mg/m3	PAC-2 modified by human oral TDlo. All Ts changed.
1786	Mercuric iodide; (Mercury(II) iodide)	7774-29-0	0.0566	0.17	0.227	22.7	mg/m3	
1787	Mercuric sulfate; (Mercury(II) sulfate)	7783-35-9	0.037	0.037	0.148	14.8	mg/m3	T-1 changed.
1788	Mercuric thiocyanate; (Mercuric sulfocyanate)	592-85-8	0.0395	0.118	0.158	15.8	mg/m3	
1789	Mercuric trifluoroacetate	13257-51-7	0.0213	0.0638	0.0851	4.3	mg/m3	

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1790	Mercurol; (Mercury nucleate)	12002-19-6	0.025	0.075	0.1	10	mg/m3	
1791	Mercurous chloride; (Mercury monochloride)	7546-30-7	0.0294	0.0883	0.118	11.8	mg/m3	
1792	Mercurous nitrate monohydrate	7782-86-7	0.0351	0.0351	0.14	14	mg/m3	T-1 changed.
1793	Mercurous nitrate; (Mercury(I) nitrate(1:1))	10415-75-5	0.0327	0.0327	0.131	13.1	mg/m3	T-1 changed.
1794	Mercurous oxide; (Mercury(I) oxide)	15829-53-5	0.026	0.026	0.104	10.4	mg/m3	T-1 changed.
1795	Mercury hydroxide	12135-13-6	0.0292	0.0292	0.117	11.7	mg/m3	T-1 changed.
1796	Mercury nitrate; (Mercury(II) nitrate (1:2))	10045-94-0	0.0405	0.0405	0.162	16.2	mg/m3	T-1 changed.
1797	Mercury nitrite; (Mercury(II) nitrite)	18541-72-5	0.0365	0.0365	0.146	14.6	mg/m3	CASRN changed from 13492-25-6 per LLNL. T-1 changed.
1798	**Mercury vapor**	**7439-97-6**	0.025	0.3	**2.05**	**4.10**	mg/m3	**Hg vapor ERPG-2 & -3** = 0.25 & 0.5 ppm, converted to mg/m3. T-1 changed.
1799	Mercury(I) chloride; (Dimercury chloride)	10112-91-1	0.0294	0.0883	1.18	11.8	mg/m3	Light sensitive.
1800	Mercury(II) chloride; (Mercury bichloride)	7487-94-7	0.0338	2	13.5	13.5	mg/m3	T-1 changed.
1801	Mercury(II) nitrate monohydrate	7783-34-8	0.0427	0.128	0.171	17.1	mg/m3	
1802	Mercury(II) oxide; (Mercuric oxide)	21908-53-2	0.027	0.15	1.08	10.8	mg/m3	T-1 changed.
1803	**Mesitylene; (1,3,5-Trimethylbenzene)**	**108-67-8**	25	**140**	**360**	500	ppm	**New interim AEGL-1, -2.** T-1, T-2 changed.
1804	Metaphosphoric acid	37267-86-0	10	30	50	250	mg/m3	TSCA, HC&P listed, no toxicity data, pchem data ex ChemFinder.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.
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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1805	Methacrolein diacetate; (Acetic acid, 2-methyl-2-propene-1,1-diol diester)	10476-95-6	7.5	25	44	44	mg/m3	Synonym spelling corrected. SAX and RTECS tox data differ
1806	**Methacrylaldehyde**	**78-85-3**	0.06	**0.2**	**2.8**	**4.7**	ppm	**New interim AEGL-1, -2, -3.** All Ts changed.
1807	Methacrylamide	79-39-0	0.015	0.04	0.3	200	mg/m3	
1808	**Methacrylic acid**	**79-41-4**	6.7	**6.7**	**61**	**220**	ppm	**Interim AEGL-1, -2, -3.**
1809	Methacrylic acid, diester with triethylene glycol; (Polyester TGM3)	109-16-0	10	30	50	500	mg/m3	
1810	Methacrylic anhydride	760-93-0	0.75	2.5	4.5	150	mg/m3	
1811	**Methacrylonitrile; (Methylacrylonitrile)**	**126-98-7**	1	**1.0**	**13**	**25**	ppm	**Interim AEGL-1, -2, -3.**
1812	Methacryloyl chloride	920-46-7	0.025	0.075	0.14	6	ppm	
1813	Methamidophos	10265-92-6	3.5	10	60	60	mg/m3	
1814	Methane	74-82-8	1000	3000	***5000***	***200000***	ppm	TLV-TWA for aliphatic hydrocarbon gas. T-3 changed. See LEL Formattinng Note.
1815	Methane-d3	676-80-2	1000	3000	5000	25000	ppm	TLV-TWA for aliphatic hydrocarbon gases.
1816	Methanesulfonic acid	75-75-2	4	12.5	75	400	mg/m3	
1817	Methanesulfonic acid, ethyl ester; (Ethyl methanesulfonate)	62-50-0	0.5	1.5	10	150	mg/m3	
1818	**Methanesulfonyl chloride**	**124-63-0**	0.1	0.3	**2.1**	**6.2**	ppm	**New interim AEGL-2, -3.** All Ts changed.
1819	Methanesulfonyl fluoride	558-25-8	3.49	3.49	3.49	3.49	ppm	

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1820	Methidathion; (O,O-Dimethyl-S-(5-methoxy-1,3,4-thiadiazolinyl-3-methyl)dithiophosphate)	950-37-8	1	3	20	400	mg/m3	
1821	Methiocarb; (Mercaptodimethur)	2032-65-7	3	7.5	15	15	mg/m3	
1822	Methomyl	16752-77-5	2.5	7.5	10	200	mg/m3	
1823	Methoxybenzaldehyde; (p-Anisaldehyde)	123-11-5	0.075	0.2	1.5	500	mg/m3	
1824	Methoxybenzyl alcohol, 4-	105-13-5	7.5	25	200	500	mg/m3	
1825	Methoxychlor	72-43-5	15	30	250	500	mg/m3	
1826	Methoxyethoxy)ethanol, 2-(2-; (Diethylene glycol monomethyl ether)	111-77-3	0.35	0.35	0.35	0.35	ppm	
1827	Methoxyethylamine, 2-	109-85-3	0.5	1.5	10	50	ppm	
1828	Methoxyethylmercuric acetate	151-38-2	0.0159	0.0477	3.18	3.18	mg/m3	
1829	Methoxyphenol, p-	150-76-5	5	15	100	500	mg/m3	
1830	Methoxypropylamine, 3-; (3-MPA)	5332-73-0	5	15	15	40	ppm	
1831	Methoxytrimethylsilane	1825-61-2	0.05	0.5	2	5	ppm	**SAR**
1832	Methyl 2-cyanoacrylate; (Permabond 910 adhesive)	137-05-3	0.2	4	12.5	12.5	ppm	MF in SAX wrong.
1833	Methyl 2-pyrrolidinone, 1-; (N-Methylpyrrolidone)	872-50-4	10	10	25	25	ppm	
1834	Methyl acetate	79-20-9	200	250	500	***3100***	ppm	See LEL Formattinng Note.

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1835	Methyl acetylene	74-99-7	1000	***1700***	***1700***	***1700***	ppm	See LEL Formattinng Note.
1836	Methyl acetylene-propadiene mixture; (MAPP)	59355-75-8	1000	1250	1250	***3400***	ppm	See LEL Formattinng Note.
1837	Methyl acrylate	96-33-3	2	2	7.5	150	ppm	
1838	**Methyl alcohol; (Methanol)**	**67-56-1**	200	**530**	**2100**	***7200***	ppm	**Interim AEGL-1, -2, -3.** See LEL Formattinng Note.
1839	Methyl alcohol-d	1455-13-6	200	250	1000	***6000***	ppm	No toxicity data found. Methanol ERPGs not used. See LEL Formattinng Note.
1840	Methyl alcohol-d4	811-98-3	200	250	500	500	mg/m3	TSCA listed, no toxicity data found. Methanol ERPGs not used.
1841	Methyl benzoate; (Benzoic acid, methyl ester)	93-58-3	2	6	40	75	ppm	
1842	Methyl bis(2-hydroxyethyl) cocoalkyl quaternary ammonium chlorides	70750-47-9	1.5	5	35	150	mg/m3	Added. RTECS, TSCA, ChemFinder listed, no data. MSDS toxicity data.
1843	Methyl bis(2-hydroxyethyl) cocoalkyl quaternary ammonium nitrates	71487-00-8	1.5	5	35	150	mg/m3	Added. TSCA listed, no data. MSDS toxicity data based on similar material.
1844	**Methyl bromide; (Bromomethane)**	**74-83-9**	1	30	**210**	**740**	ppm	**Interim AEGL-2, -3.** T-1, T-3 changed.
1845	Methyl butylacrylate, 2-; (Butyl methacrylate)	97-88-1	2.5	7.5	50	500	mg/m3	
1846	**Methyl chloride**	**74-87-3**	100	100	**910**	**3000**	ppm	**Interim AEGL-2, -3.**
1847	**Methyl chloroformate; (Methyl chlorocarbonate)**	**79-22-1**	0.2	0.3	**2.2**	**2.4**	ppm	**New interim AEGL-2, -3. ERPG-2, -3.** T-2, T-3 changed.
1848	**Methyl chlorosilane; (Chloromethylsilane)**	**993-00-0**	0.6	**1.8**	**22**	**100**	ppm	Added. **New interim AEGL-1,-2, -3.** All Ts changed.

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1849	**Methyl cyclohexylfluorophosphonate; (GF)**	**329-99-7**	0.00006	**0.00020**	**0.0024**	**0.018**	ppm	**Final AEGL-1, -2, -3.**
1850	Methyl demeton methyl; (Phosphorothioic acid, O,O-dimethyl-S-(2-methylthio)ethyl ester)	2587-90-8	4	12.5	20	20	mg/m3	
1851	**Methyl dichlorosilane; (Dichloromethylsilane)**	**75-54-7**	0.3	**0.90**	**11**	**47**	ppm	Added. **New Interim AEGL-1, -2, -3**
1852	Methyl difluorophosphite; (Methylphosphonic difluoride)	676-99-3	0.75	2.5	20	100	mg/m3	
1853	Methyl ether; (Dimethyl ether)	115-10-6	1000	***3000***	***10000***	***60000***	ppm	See LEL Formattinng Note.
1854	Methyl ethyl ketone peroxide	1338-23-4	1	3	20	20	ppm	T-0, T-1 changed.
1855	Methyl fluoride; (Fluoromethane)	593-53-3	4.48	13.4	22.4	448	mg/m3	
1856	Methyl fluoroacetate	453-18-9	0.015	0.05	0.35	5	mg/m3	
1857	Methyl fluorosulfate	421-20-5	0.0025	0.0075	0.05	0.25	ppm	
1858	Methyl formate; (Formic acid, methyl ester)	107-31-3	100	150	750	***4500***	ppm	See LEL Formattinng Note.
1859	**Methyl iodide**	**74-88-4**	5	**25**	**50**	**125**	ppm	**ERPG-1, -2, -3.**
1860	Methyl isobutyl ketone; (Hexone)	108-10-1	75	75	75	500	ppm	T-2 changed.
1861	**Methyl isocyanate**	**624-83-9**	0.02	**0.025**	**0.067**	**0.20**	ppm	**Final AEGL -2, -3. ERPG-1, -2, -3.**
1862	Methyl isopropyl ketone; (3-Methyl-2-butanone)	563-80-4	200	200	200	600	ppm	

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1863	Methyl isothiocyanate; (Isothiocyanatomethane)	556-61-6	1.5	4	33	500	mg/m3	
1864	Methyl lithium	917-54-4	1	3	20	100	mg/m3	No toxicity data found. Spontaneous ignition in air: estimated from LiO and LiOH toxicity
1865	**Methyl mercaptan**	**74-93-1**	0.5	6	**47**	**68**	ppm	**Interim AEGL -2, -3. ERPG-1, -2, -3;** odor-based ERPG-1 ignored. T-1 changed.
1866	Methyl mercury	22967-92-6	0.0107	0.0322	0.043	2.15	mg/m3	T-3 changed.
1867	**Methyl methacrylate**	**80-62-6**	17	**17**	**120**	**570**	ppm	**Interim AEGL-1, -2, -3.**
1868	Methyl n-amyl ketone	110-43-0	100	100	125	800	ppm	
1869	Methyl nitrate; (Nitric acid, methyl ester)	598-58-3	5	15	100	500	ppm	
1870	**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.**
1871	Methyl parathion	298-00-0	0.2	0.34	0.34	15	mg/m3	
1872	Methyl phencapton	3735-23-7	2	6	11	100	mg/m3	
1873	Methyl phosphonic dichloride	676-97-1	0.06	0.2	1.4	15	mg/m3	
1874	Methyl phosphonothioic dichloride	676-98-2	1.5	4	30	150	mg/m3	LC50 estimated from similar compounds
1875	Methyl pyridine, 3-; (3-Picoline)	108-99-6	2	5	125	600	ppm	

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Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1876	Methyl salicylate	119-36-8	0.125	0.4	2.5	12.5	ppm	
1877	Methyl sulfoxide-d6; (Dimethyl-d6-sulfoxide)	2206-27-1	35	100	500	500	mg/m3	H&N listed, no toxicity data, but use dimethylsulfoxide, CASRN=67-68-5
1878	**Methyl tert-butyl ether; (MTBE)**	**1634-04-4**	50	**50**	**570**	***5300***	ppm	**New interim AEGL-1, -2, -3. T-1, T-2, T-3 changed.** See LEL Formattinng Note.
1879	Methyl thiocyanate	556-64-9	5	15	28.4	28.4	ppm	
1880	Methyl vinyl carbinol; (3-Buten-2-ol)	598-32-3	0.25	0.75	5	25	ppm	
1881	**Methyl vinyl ketone; (3-Buten-2-one)**	**78-94-4**	0.05	**0.17**	**1.2**	**2.4**	ppm	**New interim AEGL-1, -2, -3.** All Ts changed.
1882	Methyl-1-butene, 2-	563-46-2	***65000***	***65000***	***230000***	***400000***	ppm	Simple asphyxiant, all Ts changed. See LEL Formattinng Note.
1883	Methyl-1H-benzotriazole	29385-43-1	10	30	50	300	mg/m3	
1884	Methyl-1-phenyl-2-pyrazolin-5-one, 3-	89-25-8	15	40	300	500	mg/m3	
1885	Methyl-1-propanethiol, 1-; (sec-Butyl mercaptan; 2-Butanethiol)	513-53-1	2	6	40	200	ppm	NFPA HHR = 2
1886	Methyl-1-propen-1-one, 2-; (Dimethylketene)	598-26-5	0.03	0.1	0.6	3.5	ppm	Toxicity based on ketene.
1887	Methyl-2-(1-methylethyl)phenol, 5-; (Thymol)	89-83-8	0.075	0.25	1.5	400	mg/m3	
1888	Methyl-2-butene, 2-	513-35-9	2	6	40	200	ppm	No toxicity data found, HHR = 2 in MSDS.
1889	Methyl-2-chloroacrylate	80-63-7	0.05	0.15	1.01	7.5	ppm	
1890	Methyl-2-heptanone, 6-	928-68-7	1.91	5.73	10	50	ppm	TSCA, HC&P listed, no toxicity data.

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1891	Methyl-2-hexanone, 5-; (Methyl isoamyl ketone)	110-12-3	100	150	***1500***	***1500***	ppm	See LEL Formattinng Note.
1892	Methyl-3-penten-2-one, 4-; (Mesityl oxide)	141-79-7	25	25	25	***1400***	ppm	See LEL Formattinng Note.
1893	Methyl-4-penten-2-one, 4-	3744-02-3	25	25	25	***1400***	ppm	Based on mesityl oxide (CASRN 141-79-7) See LEL Formattinng Note.
1894	Methyl-5-nitroaniline, 2-; (5-Nitro-o-toluidine; Benzenamine, 2-methyl-5-nitro-)	99-55-8	1	3	150	250	mg/m3	T-0, T-1 changed.
1895	Methyl-5-vinylpyridine, 2-	140-76-1	0.35	1	1.9	40	mg/m3	
1896	Methyl-8-quinolinol, 2-	826-81-3	10	30	50	250	mg/m3	No toxicity data found. MSDS data.
1897	Methylal; (Dimethoxymethane)	109-87-5	1000	***2200***	***2200***	***2200***	ppm	See LEL Formattinng Note.
1898	Methylamine hydrochloride	593-51-1	3.5	10	60	500	mg/m3	
1899	Methylamino)ethanol, 2-(	109-83-1	3	10	60	350	ppm	
1900	Methylaniline, N-	100-61-8	2	2	2.5	100	ppm	
1901	Methylaziridine, 1-	1072-44-2	2	2	2	100	ppm	LClo > 2000 mg/m3, SAR
1902	Methylbutanamide, 3-; (Isovaleramide)	541-46-8	6	20	125	500	mg/m3	
1903	Methylbutylamine, N-	110-68-9	2	6	40	200	ppm	
1904	Methylcellulose	9004-67-5	10	30	50	500	mg/m3	
1905	Methylchlorodisilane; (Chloromethyldisilane)	68937-17-7	0.1	0.3	2	10	ppm	
1906	Methylcholanthrene 3-	56-49-5	0.2	0.6	4	75	mg/m3	

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No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1907	Methylcyclohexane	108-87-2	500	***1200***	***1200***	***1200***	ppm	See LEL Formattinng Note.
1908	Methylcyclohexanone	1331-22-2	1.5	5	40	200	ppm	
1909	Methylcyclohexanone, 2-; (o-Methylcyclohexanone)	583-60-8	75	75	125	600	ppm	
1910	Methylcyclopentane	96-37-7	4	12.5	75	***4000***	ppm	See LEL Formattinng Note.
1911	Methyldecane, 4-	2847-72-5	1.57	4.7	7.83	40	ppm	HC&P listed, no toxicity data found.
1912	**Methyldichloroarsine; (Dichloromethylarsine)**	**593-89-5**	0.053	0.053	**0.053**	**0.16**	mg/m3	Added. **New Interim AEGL-2, -3**
1913	Methylene bis(2-chloroaniline), 4,4'-; (MBOCA)	101-14-4	0.01	0.03	0.6	40	ppm	
1914	Methylene bis(4-isocyanatocyclohexane), 1,1'-	5124-30-1	0.005	0.005	0.01	0.15	ppm	
1915	**Methylene chloride; (Dichloromethane)**	**75-09-2**	25	**200**	**560**	**6900**	ppm	**Interim AEGL-1, -2, -3.**
1916	**Methylene diphenyl diisocyanate; (Diphenylmethane diisocyanate; MDI)**	**101-68-8**	0.05	**0.2**	**2**	**25**	mg/m3	**ERPG-1, -2, -3**
1917	Methylene fluoride; (Difluoromethane; HFC-32)	75-10-5	1000	3000	200000	400000	ppm	T-3 changed.
1918	Methylenebis(isocyanato-benzene), 1,1'-; (Diphenyl methane diisocyanate)	26447-40-5	5	15	25	125	mg/m3	TSCA listed. Used Cyanides PEL-TWA.
1919	Methylenebisacrylamide, N,N'-	110-26-9	1.5	5	35	150	mg/m3	
1920	Methylenedianiline, 4,4'-	101-77-9	0.01	0.1	0.6	15	ppm	
1921	Methylethyl hydroperoxide, 1-; (Isopropyl hydroperoxide)	3031-75-2	0.6	2	12.5	60	mg/m3	Based on Isopropylbenzenehydroperoxide. T-1 changed.

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No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1922	Methylformamide, N-	123-39-7	15	50	350	500	ppm	
1923	Methylfuran, 2-	534-22-5	6	20	50	50	ppm	
1924	Methylheptane, 2-	592-27-8	2	6	40	200	ppm	HC&P listed, no toxicity data, pchem data ex ChemFinder. Duplicate entry deleted. All Ts changed.
1925	Methylheptane, 4-	589-53-7	10	30	50	250	ppm	No toxicity data.
1926	Methylhydrosiloxane (3-4%) + dimethylsiloxane (96-97%) copolymer	68037-59-2	10	30	50	250	mg/m3	TSCA and ChemFinder listed, no pchem or toxicity data found.
1927	Methylimidazole, 1-	616-47-7	6	15	125	500	mg/m3	
1928	Methylimidazole, 4-	822-36-6	20	60	300	300	mg/m3	Added.
1929	Methyllactic acid ethyl ester, 2-; (Ethyl 2-hydroxyisobutyrate)	80-55-7	15	50	400	500	mg/m3	
1930	**Methyllactonitrile 2-; (Acetone cyanohydrin)**	**75-86-5**	1.44	**2.0**	**7.1**	**15**	ppm	**Interim AEGL-1, -2, -3.** T-0 changed.
1931	Methylmagnesium bromide, 3.0 m in diethyl ether	75-16-1	0.4	1.25	7.5	40	ppm	No toxicity data found.
1932	Methylmagnesium chlordie	676-58-4	1.5	5	35	150	mg/m3	No toxicity data found, HHR = 3.
1933	Methylmercuric dicyanamide	502-39-6	0.0149	0.0447	2.98	2.98	mg/m3	
1934	Methylmorpholine, 4-	109-02-4	2	6	40	200	ppm	
1935	Methylnaphthalene, 1-	90-12-0	0.5	20	20	500	mg/m3	T-0, T-2 changed.
1936	Methylnaphthalene, 2-	91-57-6	0.5	0.5	3.5	500	mg/m3	T-0, T-1, T-2 changed.

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1937	Methylnitrosopiperidine, 3-; (Piperidine, 3-methyl-1-nitroso-)	13603-07-1	0.06	0.15	1.25	6	ppm	
1938	Methylnonane, 4-	17301-94-9	2	6	40	200	ppm	HC&P, no toxicity data, toxicity estimated.
1939	Methylpentane, 2-; (Isohexane)	107-83-5	500	510	510	***2500***	ppm	See LEL Formattinng Note.
1940	Methylpentane, 3-	96-14-0	500	510	510	***2500***	ppm	See LEL Formattinng Note.
1941	Methylpentanol-1, 2-; (Amyl methyl alcohol)	105-30-6	0.25	0.75	5	150	ppm	
1942	Methylphenol, 2-; (o-Cresol)	95-48-7	5	5	24.9	250	ppm	
1943	Methylphenol, 3-; (m-Cresol)	108-39-4	5	5	24.9	250	ppm	
1944	Methylphenol, 4-; (p-Cresol)	106-44-5	5	5	24.9	250	ppm	
1945	Methylphenylthiourea, 2-; (o-Tolyl thiourea)	614-78-8	10	30	50	50	mg/m3	
1946	Methylphosphonate	993-13-5	10	10	10	10	mg/m3	HSDB, HC&P listed, no toxicity data found.
1947	Methylphosphonothioic acid, S-(2-(dimethylamino)ethyl) O-ethyl ester	20820-80-8	0.00006	0.0002	0.00125	0.006	ppm	"Vsub; (VXR)" deleted. No pchem data found. Client human LC50.
1948	Methylphosphonothioic acid-O-(4-nitrophenyl)-O-phenyl ester	2665-30-7	1.5	5	8	8	mg/m3	
1949	Methylphosphonothioic acid-O-ethyl O-(4-(methylthio)phenyl) ester	2703-13-1	2	6	10	10	mg/m3	
1950	Methylpropane, 2-; (Isobutane)	75-28-5	1000	***3000***	***5000***	***15000***	ppm	T-0, T-1, T-2 changed. See LEL Formattinng Note.
1951	Methylpropene, 2-; (Isobutene)	115-11-7	250	750	1250	***100000***	ppm	New TLV-TWA, T-0, T-1, T-2 changed. See LEL Formattinng Note.
1952	Methylpropylnitrosoamine; (N-Methyl-N-nitroso-1-propanamine)	924-46-9	0.01	0.03	0.2	4	ppm	

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 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1953	Methylpyridine, 2-; (2-Picoline)	109-06-8	2	5	5	300	ppm	
1954	Methylpyrrole, N-	96-54-8	75	250	500	500	mg/m3	No toxicity data found. MSDS NFPA HHR = 0
1955	Methylpyrrolidine; (Methylpyrrolidine, 1-)	120-94-5	0.75	2	15	75	mg/m3	
1956	Methylstyrene, alpha-	98-83-9	50	100	100	700	ppm	
1957	Methyltetrahydrofuran, 2-	96-47-9	6	15	125	600	ppm	
1958	Methyltriacetoxysilane	4253-34-3	7.5	25	150	500	mg/m3	
1959	**Methyltrichlorosilane; (Trichloromethyl silane)**	**75-79-6**	0.2	**0.60**	**6.2**	**28**	ppm	**Interim AEGL-1, -2, -3.**
1960	Methyltriethoxysilane	2031-67-6	6	15	125	600	ppm	
1961	Methyl-trifluoromethanesulfonate	333-27-7	7.2	21.6	36	500	mg/m3	No toxicity data found.
1962	Methyltrimethoxysilane	1185-55-3	50	150	500	500	mg/m3	
1963	Methyltrioctylammonium chloride	5137-55-3	0.75	2.5	20	100	mg/m3	
1964	**Methylvinyldichlorosilane; (Dichloromethylvinylsilane)**	**124-70-9**	0.3	**0.90**	**11**	**50**	ppm	Added. **New interim AEGL-1, -2, -3.**
1965	Methylvinylsiloxane-dimethylsiloxane copolymer, vinyl terminated	68083-18-1	10	30	50	250	mg/m3	TSCA listed, no toxicity or pchem data found
1966	Metolcarb; (Methylcarbamic acid m-tolyl ester)	1129-41-5	1	3	4.8	200	mg/m3	
1967	Mevinphos; (Phosdrin)	7786-34-7	0.1	0.3	4	4	mg/m3	T-1 changed.

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1968	Mexacarbate; (4-(Dimethylamine)-3,5-xylyl N-methylcarbamate)	315-18-4	2.5	7.5	14	14	mg/m3	
1969	Mica; (mica silicates)	12001-26-2	3	9	15	75	mg/m3	IDLH = 1500 mg/m3 suppressed.
1970	Michler's ketone; (4,4'-bis(dimethylamino)benzophenone)	90-94-8	1	3.5	25	40	mg/m3	
1971	Mineral fibers, fine	z-0032	10	30	50	50	mg/m3	
1972	Mineral oil, heavy or light; (Paraffin oil; Deobase, deodorized)	8020-83-5	0.2	0.6	500	500	mg/m3	
1973	Mineral oil, petroleum distillates, heavy naphthenic	64741-53-3	0.2	0.6	100	500	mg/m3	
1974	Mineral oil, petroleum distillates, solvent-refined (mild) heavy paraffinic	64741-88-4	0.2	0.6	1	500	mg/m3	No toxicity data found. Rat oral LD50 for similar compounds > 5 g/kg.
1975	Mineral oil, petrolleum distillates, solvent refined light naphthenic	64741-97-5	40	125	500	500	mg/m3	Rat LD > 5 g/kg. No pchem data found.
1976	Mineral oil, white	8042-47-5	0.2	0.6	500	500	mg/m3	
1977	Mineral oil; (Oil mist, mineral)	8012-95-1	5	10	10	500	mg/m3	
1978	Mirex; (Perchloropentacyclodecane)	2385-85-5	0.03	0.075	0.6	100	mg/m3	
1979	Mitomycin C	50-07-7	4	12.5	23	23	mg/m3	
1980	Molecular sieve 13X	63231-69-6	7.5	25	150	500	mg/m3	MSDS HHR = 2.
1981	Molybdate orange	12656-85-8	5	15	75	500	mg/m3	
1982	Molybdenum	7439-98-7	10	30	50	500	mg/m3	
1983	Molybdenum carbide	12011-97-1	11.3	33.8	56.3	500	mg/m3	LD > 250 mg/kg.

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1984	Molybdenum dioxide	18868-43-4	6.67	6.67	6.67	500	mg/m3	
1985	Molybdenum disilicide	12136-78-6	15.9	47.6	79.3	500	mg/m3	
1986	Molybdenum hexacarbonyl	13939-06-5	27.5	82.6	138	500	mg/m3	Insoluble Mo compound.
1987	Molybdenum pentachloride	10241-05-1	14.2	14.2	500	500	mg/m3	
1988	Molybdenum trioxide	1313-27-5	7.5	7.5	7.5	500	mg/m3	
1989	Molybdenum(IV) sulfide	1317-33-5	16.7	50.1	83.4	500	mg/m3	Rat oral LD50 > 2 g/kg.
1990	Molybdic acid	7782-91-4	8.44	8.44	8.44	500	mg/m3	Mo compounds, treated as soluble.
1991	Molybdic acid, ammonium salt; (Ammonium molibdate)	11098-84-3	11.7	11.7	500	500	mg/m3	Could not confirm MF, MW. RTECS toxicity data. T-2 changed.
1992	Molybdic acid, disodium salt; (Disodium molybdate)	7631-95-0	10.7	10.7	10.7	500	mg/m3	
1993	Molybdic acid, hexaammonium salt; (Ammonium heptamolybdate)	12027-67-7	8.67	8.67	8.67	500	mg/m3	
1994	Molybdophosphoric acid	12026-57-2	7.93	7.93	7.93	500	mg/m3	TSCA listed, no toxicity data. Assumed soluble compound.
1995	Molybdophosphoric acid hydrate; (Phosphomolybdic acid hydrate)	51429-74-4	8.07	8.07	8.07	500	mg/m3	No toxicity data found.
1996	Monobutyl phosphite	16456-56-7	6	20	150	500	mg/m3	
1997	Monochloroamine; (Chloramide)	10599-90-3	0.05	0.15	1	5	ppm	RTECS data used, all Ts changed.
1998	Monochloropentafluoroethane; (CFC-115)	76-15-3	1000	3000	5000	300000	ppm	
1999	Monocrotophos	6923-22-4	0.05	0.15	0.63	25	mg/m3	

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2000	**Monomethylamine; (Methylamine)**	**74-89-5**	10	**15**	**64**	**350**	ppm	**New interim AEGL-1, -2, -3. ERPG-1, -2, -3.** T-1, T-2, T-3 changed.
2001	**Monomethylhydrazine; (Methyl hydrazine)**	**60-34-4**	0.01	0.2	**0.9**	**2.7**	ppm	**Final AEGL-2, -3.**
2002	Monosodium titanate	60704-88-3	10	30	50	250	mg/m3	MSDS #18858-00 CASRN 12034-36-5 TSCA has MF = Na.H-O5-Ti2
2003	Montmorillonite	1318-93-0	30	30	30	30	mg/m3	Used Bentonite, 1302-78-9
2004	Morpholine	110-91-8	20	30	30	***1400***	ppm	See LEL Formattinng Note.
2005	Morpholinepropanesulfonic acid, 4-	1132-61-2	1.25	4	25	125	mg/m3	Quail LD50 > 316 mg/m3
2006	Morpholino)ethanesulfonic acid monohydrate, 2-(N-	4432-31-9	1.25	4	25	125	mg/m3	Quail LD50 > 316 mg/kg
2007	Muscimol; (5-Aminomethyl-3-isoxyzole)	2763-96-4	3.5	10	17	20	mg/m3	
2008	Mustard gas sulfoxide; (bis(2-chloroethyl)sulfoxide)	5819-08-9	0.4	1.25	7.5	40	mg/m3	No pchem data found.
2009	Myoglobins	9008-45-1	10	30	50	250	mg/m3	Not found in databases. MSDS states Solid.
2010	Myristic acid, butyl ester; (Tetradecanoic acid, butyl ester)	110-36-1	3	7.5	60	300	ppm	Rat oral LD50 > 8 g/kg.
2011	Myristic acid, isopropyl ester; (Tetradecanoic acid, isopropyl; Isopropyl myristate)	110-27-0	200	500	500	500	mg/m3	
2012	Nabumetone; (Relafen; 4-(6-methoxy-2-naphthyl)-2-butanone)	42924-53-8	10	30	125	500	mg/m3	
2013	Nadic methyl anhydride	25134-21-8	0.75	2	15	75	mg/m3	
2014	Naphtha (coal tar); (Naphtha [petroleum] light aliphatic; Aliphatic naphtha)	8030-30-6	100	350	***1000***	***1000***	ppm	T-1, T-2 changed. See LEL Formattinng Note.

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2015	Naphtha (petroleum), heavy catalytic cracked	64741-54-4	15	40	300	500	mg/m3	Rat 240 min LC > 5700 mg/m3, oral LD > 5000 mg/kg.
2016	Naphtha (petroleum), light straight-run	64741-46-4	100	350	***1000***	***1000***	ppm	Added. No toxicity data found. Used Naphtha (Coal tar) PACs. See LEL Formattinng Note.
2017	Naphtha, heavy aliphatic solvent	64742-96-7	15	40	300	500	mg/m3	TSCA listed, no toxicity data found. Used Naphtha (petroleum) heavy catalytic cracked (64741-54-4) PACs. All Ts changed.
2018	Naphtha, hydrotreated heavy; (Isopar L-rev 2)	64742-48-9	171	513	***855***	***1250***	ppm	OEL-TWA = 171 ppm (1200 mg/m3) from Exxon MSDS. See LEL Formattinng Note.
2019	Naphthalenamine, 1-; (1-Naphthylamine)	134-32-7	0.6	1.5	12.5	350	mg/m3	
2020	Naphthalene	91-20-3	10	15	15	250	ppm	T-2 changed.
2021	Naphthaleneacetamide, 1-	86-86-2	6	20	150	500	mg/m3	
2022	Naphthalenetrisulfonic acid sodium salt, 1,3,6-	19437-42-4	10	30	50	250	mg/m3	TSCA listed, no toxicity or pchem data found. MSDS Solid.
2023	Naphthenic acid, lead salt	61790-14-5	0.0544	0.163	30	109	mg/m3	For stated MW, x = 7.
2024	Naphthol, 1-	90-15-3	25	75	500	500	mg/m3	
2025	Naphthol, 2-	135-19-3	0.0025	0.0075	0.05	500	mg/m3	
2026	Naphthol-8-sulfonic acid, sodium salt, 2-	832-85-9	2	6	40	200	mg/m3	Not found in databases. Used 2-Naphthol-6-sulfonic acid (93-01-6) toxicity data.
2027	Naphthoquinone, 1,4-	130-15-4	0.075	0.25	1.5	75	mg/m3	

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2028	Naphthylamine, beta-	91-59-8	1.5	5	35	300	mg/m3	
2029	Naphthylthiourea, alpha-; (ANTU)	86-88-4	0.3	0.9	10	100	mg/m3	
2030	Neatsfoot oil; (Fats and glyceridic oils)	8002-64-0	10	30	50	250	mg/m3	TSCA listed, no toxicity or pchem data found, assumed non-volatile.
2031	Neodecanoic acid	26896-20-8	12.5	40	300	500	mg/m3	
2032	Neodymium	7440-00-8	0.00075	0.0025	0.02	0.1	mg/m3	
2033	Neodymium bromide	13536-80-6	10	30	50	250	mg/m3	
2034	Neodymium fluoride	13709-42-7	8.83	26.5	44.1	500	mg/m3	T-3 changed.
2035	Neodymium hydroxide	16469-17-3	0.75	0.75	2	75	mg/m3	**SAR**
2036	Neodymium nitrate	10045-95-1	7.5	25	150	500	mg/m3	
2037	Neodymium nitrate, pentahydrate	14517-29-4	10	30	50	250	mg/m3	HC&P listed, no toxicity data found.
2038	Neodymium nitrite	z-0033	0.04	0.1	0.75	75	mg/m3	**SAR**
2039	Neodymium(III) chloride	10024-93-8	0.6	1.5	12.5	60	mg/m3	All Ts and units changed.
2040	Neodymium(III) oxide	1313-97-9	10	30	50	500	mg/m3	Rat oral LD50 > 5 g/kg
2041	Neon	7440-01-9	65000	65000	230000	400000	ppm	Simple asphyxiant.
2042	Nickel	7440-02-0	1	4.5	10	10	mg/m3	
2043	Nickel acetate tetrahydrate	6018-89-9	4.24	4.24	4.24	42.4	mg/m3	

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No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2044	Nickel aluminide	12003-78-0	1.36	1.36	1.36	13.6	mg/m3	TSCA listed, no toxicity data found.
2045	Nickel carbonate hydroxide; (Basic nickel carbonate tetrahydrate)	39430-27-8	2.14	2.14	4	21.4	mg/m3	See also SAX NCY600, 12607-70-4
2046	Nickel carbonate hydroxide; (Basic nickel(II) carbonate)	12607-70-4	1.73	1.73	1.73	17.3	mg/m3	
2047	**Nickel carbonyl**	**13463-39-3**	0.001	0.036	**0.036**	**0.16**	ppm	**New Final AEGL-2, -3.** T-0 changed.
2048	Nickel chloride; (Nickelous chloride)	7718-54-9	2.21	2.21	2.21	22.1	mg/m3	
2049	Nickel cyanide	557-19-7	0.377	1.13	9.44	18.9	mg/m3	PEL-TWA ignored.
2050	Nickel fluoride	13940-83-5	2.88	2.88	3	28.8	mg/m3	ChemFinder has Nickel(II) fluoride tetrahydrate.
2051	Nickel formate	3349-06-2	3.15	3.15	6	31.5	mg/m3	
2052	Nickel oxalate (liquids)	6018-94-6a	2.5	2.5	2.5	25	mg/m3	
2053	Nickel oxalate (solids)	6018-94-6b	2.5	2.5	2.5	25	mg/m3	
2054	Nickel oxide; (Nickel(II) oxide)	1313-99-1	1.27	1.27	12.7	12.7	mg/m3	
2055	Nickel perchlorate	13637-71-3	6.23	6.23	6.23	62.3	mg/m3	HC&P listed, no toxicity data found.
2056	Nickel sulfamate; (Nickel(II) sulfamate)	13770-89-3	4.27	4.27	4.27	200	mg/m3	
2057	Nickel sulfate hexahydrate; (Nickel(II) sulfate hexahydrate)	10101-97-0	4.48	4.48	10	44.8	mg/m3	
2058	Nickel sulfate; (Nickel(II) sulfate)	7786-81-4	2.64	2.64	2.64	26.4	mg/m3	
2059	Nickel(2+) stearate	2223-95-2	10.7	32	53.3	107	mg/m3	

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No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2060	Nickel(II) bromide	13462-88-9	3.72	3.72	3.72	37.2	mg/m3	No toxicity data, soluble compound.
2061	Nickel(II) carbonate (1:1)	3333-67-3	2.02	2.02	2.02	20.2	mg/m3	
2062	Nickel(II) chloride hexahydrate	7791-20-0	4.05	4.05	40.5	40.5	mg/m3	
2063	Nickel(II) hydroxide; (Nickelous hydroxide)	12054-48-7	1.58	1.58	1.58	15.8	mg/m3	SAX has CASRNs of nickelous and nickelic reversed.
2064	Nickel(II) nitrate hexahydrate	13478-00-7	4.96	4.96	49.6	49.6	mg/m3	
2065	Nickel(II) nitrate; (Nickelous nitrate)	13138-45-9	3.11	3.11	12.5	31.1	mg/m3	
2066	Nickel(II) nitrite	17861-62-0	1	1	1	10	mg/m3	
2067	Nickel(II) phosphate	10381-36-9	1	1	1	10	mg/m3	
2068	Nickel(III) hydroxide; (Nickelic hydroxide)	12125-56-3	1.87	1.87	1.87	18.7	mg/m3	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
2069	Nicotinamide	98-92-0	6	20	150	500	mg/m3	
2070	Nicotine sulfate	65-30-5	4	9	9	9	mg/m3	
2071	Nicotine, dl-beta-; (DL-Nicotine)	22083-74-5	1.29	3.5	3.5	75	mg/m3	
2072	Nicotine; (Pyridine, (S)-3-(1-methyl-2-pyrrolidinyl)-)	54-11-5	0.5	1.5	3.5	5	mg/m3	
2073	Nicotinic acid; (Niacin)	59-67-6	0.75	2.5	15	500	mg/m3	T-1 changed.
2074	Niobium	7440-03-1	40	125	500	500	mg/m3	Rat LD50 > 10 g/kg

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No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2075	Niobium chloride	10026-12-7	6	15	125	500	mg/m3	
2076	Niobium pentoxide; (Niobium(V) oxide)	1313-96-8	10	30	200	500	mg/m3	Rat oral LD50 > 10 g/kg.
2077	Niobium(IV) carbide	12069-94-2	11.3	33.9	56.5	250	mg/m3	TSCA listed, no toxicity data found.
2078	Nitrapyrin; (2-Chloro-6-(trichloromethyl)pyridine)	1929-82-4	15	20	20	400	mg/m3	T-2 changed.
2079	Nitrate(s)	14797-55-8	10	30	50	250	mg/m3	
2080	**Nitric acid**	**7697-37-2**	0.53	**0.53**	**24**	**92**	ppm	**Interim AEGL-1, -2, -3. WFNA (ERPGs for "white fuming")**
2081	Nitric acid, butyl ester; (Butyl nitrate)	928-45-0	2.05	6.16	10.3	50	ppm	No toxicity data found.
2082	Nitric acid, ethyl ester; (Ethyl nitrate)	625-58-1	0.35	1	6	35	ppm	HSDB MP = -94.6, BP = 87.2.
2083	Nitric acid, pentyl ester; (Amyl nitrate)	1002-16-0	25	75	500	2500	ppm	CASRN corrected, 10023-16-0 fails checksum..
2084	**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. All Ts changed.
2085	Nitrilotriacetic acid, disodium salt; (Disodium nitrilotriacetate)	15467-20-6	6	15	125	500	mg/m3	
2086	Nitrilotriacetic acid, trisodium salt, monohydrate	18662-53-8	0.06	0.2	1.25	500	mg/m3	Some toxicity data ex HSDB.
2087	Nitrilotriacetic acid; (Aminotriacetic acid)	139-13-9	35	100	500	500	mg/m3	
2088	Nitrilotris tri-phosphonic acid; (Amino, tris[methylene phosphonic acid])	6419-19-8	10	10	35	500	mg/m3	Added.
2089	Nitroaniline, 2-; (o-Nitroaniline)	88-74-4	6	20	125	500	mg/m3	Rat 4 hr LC50 > 2529 mg/m3

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2090	Nitroaniline, 3-; (m-Nitroaniline)	99-09-2	0.6	1.5	12.5	200	mg/m3	
2091	Nitroaniline, p-	100-01-6	6	9	300	300	mg/m3	
2092	Nitrobenzene	98-95-3	1	3	19.9	200	ppm	
2093	Nitrobenzenesulfonic acid, sodium salt, 3-	127-68-4	40	125	500	500	mg/m3	
2094	Nitrobiphenyl, 4-; (p-Nitrobiphenyl)	92-93-3	0.25	0.75	5	500	mg/m3	
2095	Nitrochlorobenzene, m-; (1-Chloro-3-nitrobenzene; m-chloronitrobenzene)	121-73-3	0.06	0.2	1.25	150	mg/m3	
2096	Nitrocyclohexane	1122-60-7	0.3	0.75	1.5	60	mg/m3	
2097	Nitrocyclohexene, 1-; (1-Nitrocyclohex-1-ene)	2562-37-0	0.35	1	7.5	40	ppm	**SAR**
2098	Nitrodiphenylamine, 2-	119-75-5	30	100	500	500	mg/m3	Used p-nitrodiphenylamine (CASRN = 836-30-6)
2099	Nitroethane	79-24-3	100	100	200	1000	ppm	
2100	Nitrogen	7727-37-9	65000	65000	230000	400000	ppm	Simple asphyxiant, all Ts changed. TEELs represent added nitogen.
2101	**Nitrogen dioxide**	**10102-44-0**	0.5	**0.50**	**12**	**20**	ppm	**Interim AEGL-1, -2, -3.**
2102	Nitrogen mustard hydrochloride	55-86-7	0.75	2.5	4	4	mg/m3	
2103	**Nitrogen mustard; (Bis(b-chloroethyl)methylamine)**	**51-75-2**	0.001	0.003	**0.022**	**0.37**	mg/m3	Added. **New interim AEGL-2, -3.** All Ts changed.
2104	Nitrogen tetroxide	10544-72-6	3	5	5	20	ppm	
2105	**Nitrogen trifluoride**	**7783-54-2**	10	60	**400**	**800**	ppm	**ERPG-2, -3.**

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No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2106	Nitrogen trioxide; (Dinitrogen trioxide)	10544-73-7	25	50	100	500	ppm	TSCA, HC&P listed, CASRN 12033-49-7 not found, data source uncertain
2107	Nitroglycerin	55-63-0	0.1	0.1	2	75	mg/m3	
2108	Nitromethane	75-52-5	20	60	750	750	ppm	PEL-TWA ignored.
2109	Nitromethane-d3; (Trideuteronitromethane)	13031-32-8	20	60	100	750	ppm	Used nitromethane, 72-52-5.
2110	Nitro-m-xylene, 2-; (1,3-Dimethyl-2-nitrobenzene)	81-20-9	10	30	200	500	mg/m3	SAX MF and MW incorrect. Rat oral LD50 from MSDS.
2111	Nitronium Tetrafluoroborate	13826-86-3	4.37	13.1	21.8	150	mg/m3	No pchem data found, HHR = 3 from MSDS.
2112	Nitrophenol (mixed isomers)	25154-55-6	0.75	2.5	15	75	mg/m3	Used most toxic isomer Ts (4-Nitrophenol, 100-02-7).
2113	Nitrophenol, 2-; (o-Nitrophenol)	88-75-5	1.25	4	30	150	mg/m3	
2114	Nitrophenol, 3-; (m-Nitrophenol)	554-84-7	1.25	4	30	150	mg/m3	
2115	Nitrophenol, 4-; (p-Nitrophenol)	100-02-7	0.75	2.5	15	75	mg/m3	
2116	Nitropropane, 1-	108-03-2	25	25	25	1000	ppm	
2117	Nitropropane, 2-	79-46-9	25	30	50	100	ppm	
2118	Nitropyrene, 1-	5522-43-0	0.1	0.3	2	10	mg/m3	
2119	Nitropyridine-N-oxide, 4-; (Pyridine, 4-nitro, 1-oxide)	1124-33-0	15	50	80	80	mg/m3	
2120	Nitrosodimethylamine	62-75-9	3.5	10	19	19	mg/m3	
2121	Nitrosodiphenylamine, p-	156-10-5	0.1	0.3	2	150	mg/m3	

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Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2122	Nitrosodipropylamine; (DPNA)	621-64-7	0.06	0.2	1.25	200	mg/m3	
2123	Nitrosomorpholine	59-89-2	12.5	30	30	30	mg/m3	
2124	Nitroso-N-methylurea, N-	684-93-5	0.015	0.05	0.35	50	mg/m3	
2125	Nitrosophenol, p-	104-91-6	2	6	40	200	mg/m3	
2126	Nitrosotoluene, 2-: (o-Nitrosotoluene)	611-23-4	7.5	25	150	500	mg/m3	
2127	Nitrosyl chloride	2696-92-6	0.025	0.075	0.5	2.5	ppm	
2128	Nitrosylsulfuric acid	7782-78-7	1.5	5	35	150	mg/m3	No toxicity data found.
2129	Nitrotoluene, m-	99-08-1	5	6	50	200	ppm	
2130	Nitrotoluene, o-	88-72-2	5	6	10	200	ppm	T-2, T-3 changed.
2131	Nitrotoluene, p-	99-99-0	5	6	10	200	ppm	
2132	Nitrous acid	7782-77-6	1	3	15	200	mg/m3	Used HNO3 limits
2133	Nitrous oxide	10024-97-2	50	150	10000	20000	ppm	
2134	Nonacosane	630-03-5	10	30	50	250	mg/m3	
2135	Nonanal	124-19-6	2	6	40	500	mg/m3	
2136	Nonane; (Shellsol 140)	111-84-2	200	600	***1000***	***1250***	ppm	See LEL Formattinng Note.
2137	Nonanenitrile; (1-Octyl cyanide)	2243-27-8	26.8	26.8	30	150	ppm	

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No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2138	Nonanoic acid	112-05-0	25	75	500	500	mg/m3	
2139	Nonanone, 2-	821-55-6	1	3	20	75	ppm	
2140	Nonene, 1-	124-11-8	0.5	1.5	10	50	ppm	HSDB, OHMTADS, TSCA, no toxicity data, estimated.
2141	Nonoxynol-4	7311-27-5	10	30	50	250	mg/m3	
2142	Nonyl alcohol	143-08-8	25	75	500	500	mg/m3	
2143	Nonyl phenol (mixed isomers)	25154-52-3	6	20	125	500	mg/m3	
2144	Nonyl phenol, 4- (branched)	84852-15-3	5	15	100	500	mg/m3	
2145	Nonyl phenol, p-	104-40-5	6	20	125	500	mg/m3	
2146	Nonylphenol, 4-, branched, ethoxylated	127087-87-0	10	30	200	500	mg/m3	
2147	Nonylphenoxypolyethoxyethanol	68412-54-4	10	30	50	250	mg/m3	
2148	**Nonyltrichlorosilane**	**5283-67-0**	0.2	**0.60**	**7.3**	**33**	ppm	Added. **New interim AEGL-1, -2, -3.**
2149	Norbormide	991-42-4	0.75	2	3.8	3.8	mg/m3	
2150	Norchlorofluoroepibatidine	z-0034	0.00004	0.000125	0.00075	0.00125	mg/m3	
2151	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/m3	
2152	Octachlorodibenzofuran, 1,2,3,4,6,7,8,9-	39001-02-0	0.003	0.0075	0.06	10	mg/m3	LC50 based on other CDFs
2153	Octachloronaphthalene	2234-13-1	0.1	0.3	0.5	1	mg/m3	

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Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2154	Octacosane	630-02-4	21.7	21.7	112	500	ppm	TSCA listed, no toxicity data found.
2155	Octadecane, n-	593-45-3	33.7	33.7	173	750	ppm	TSCA, HC&P listed.
2156	Octadecanoic acid, n-; (Stearic acid)	57-11-4	60	150	500	500	mg/m3	
2157	Octadecanol, 1-	112-92-5	2.5	7.5	50	***750***	ppm	See LEL Formattinng Note.
2158	Octadecenoic acid, 9-; (Oleic acid)	112-80-1	0.015	0.05	0.4	500	mg/m3	
2159	Octadecyl methacrylate	32360-05-7	10	30	50	250	mg/m3	TSCA, HC&P listed, no toxicity data. MSDS MP, SG data. Assumed nonvolatile.
2160	**Octadecyltrichlorosilane**	**112-04-9**	0.2	**0.60**	**7.3**	**33**	ppm	**New interim AEGL-1, -2, -3.** All Ts and units changed.
2161	Octafluorocyclobutane; (Cyclooctafluorobutane; Freon C-318)	115-25-3	25000	65000	230000	300000	ppm	
2162	Octamethylcyclotetrasiloxane	556-67-2	12.5	35	250	300	ppm	SAR Ts = 10, 30, 50, 500 mg/m3 not used.
2163	Octamethyldiphosphoramide; (Octamethylpyrophosphoramide)	152-16-9	0.15	0.5	0.8	3.5	mg/m3	
2164	Octanal, 1-; (Octanal; Octanaldehyde)	124-13-0	20	60	500	500	mg/m3	
2165	Octanamine, 1-	111-86-4	0.4	1.25	7.5	40	mg/m3	
2166	Octane, n-	111-65-9	300	300	385	***1000***	ppm	See LEL Formattinng Note.
2167	Octanedione, 2,5-	3214-41-3	20	60	500	500	mg/m3	Not found in databases. Toxicity based on octane
2168	Octanenitrile	124-12-9	1.5	4	30	150	ppm	

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No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2169	Octanethiol, 1-	111-88-6	0.025	0.075	0.5	150	ppm	Toxicity data ex HSDB
2170	Octanoic acid; (Caprylic acid)	124-07-2	40	125	500	500	mg/m3	
2171	Octanol, 2-	123-96-6	12.5	35	250	350	mg/m3	HSDB, TSCA give CASRN = 123-96-6, changed from 4128-31-8. T-2, T-3 changed.
2172	Octanone, 2-	111-13-7	60	200	200	500	mg/m3	
2173	Octaphenylcyclotetrasiloxane	546-56-5	20	60	400	500	mg/m3	RTECS LD 50 > 4640 mg/kg
2174	**Octene, 1-**	**111-66-0**	40	**40**	**800**	***2000***	ppm	**ERPG-1, -2, -3.** See LEL Formattinng Note.
2175	Octyl alcohol; (n-octanol)	111-87-5	50	50	50	350	mg/m3	
2176	Octyl(phenyl)-N,N-diisobutylcarbamoylmethylphosphine oxide	83242-95-9	10	30	50	250	mg/m3	
2177	**Octyltrichlorosilane**	**5283-66-9**	0.2	**0.60**	**7.3**	**33**	ppm	Added. **New interim AEGL-1, -2, -3.**
2178	Oil gas; (Oil fog)	z-0035	450	1750	3000	4500	ppm	4.2% illuminants, 10.4% CO, 47.6% H, 27.0% CH4, 4.6% CO2, 5.8% N, 0.4% O2
2179	**Oleum; (fuming sulfuric acid)**	**8014-95-7**	0.2	**0.20**	**8.7**	**160**	mg/m3	**Interim AEGL-1, -2, -3. All Ts changed.**
2180	Organorhodium complex	z-0036	0.292	8.75	15	500	mg/m3	MW assumed, insol Rh conc. limits used.
2181	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.
2182	Osmium	7440-04-2	0.25	0.75	6	30	mg/m3	

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2183	**Osmium tetroxide**	**20816-12-0**	0.000193	0.0006	**0.0084**	**4.0**	ppm	**New interim AEGL-2, -3.** All Ts changed.
2184	**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**
2185	Ouabain	630-60-4	1.5	5	8.3	12.5	mg/m3	
2186	Oxalic acid dihydrate	6153-56-6	1	2	100	500	mg/m3	Cannot confirm previously used toxicity data. Used HSDB data. T-2 changed.
2187	Oxalic acid, anhydrous; (Ethanedioic acid)	144-62-7	1	2	40	500	mg/m3	T-2 changed.
2188	Oxalyl chlorine	79-37-8	1.5	5	40	200	ppm	
2189	Oxamide	471-46-5	1.5	5	40	200	mg/m3	
2190	Oxamyl	23135-22-0	0.35	1	1.7	15	mg/m3	
2191	Oxathiane, 1,4-	15980-15-1	4	12.5	75	400	ppm	
2192	Oxirane, ethenyl-; (3,4-Epoxy-1-butene)	930-22-3	3	10	25	25	ppm	
2193	Oxone, monopersulfate compound	37222-66-5	10	30	50	250	mg/m3	Not found in databases
2194	Oxybis(n,n-dimethylethanamine), 2,2'-; (Bis(2-dimethylaminoethyl) ether; DMAEE)	3033-62-3	0.05	0.15	15	15	ppm	Added.
2195	Oxydiacetic acid; (Oxodiacetic acid)	110-99-6	2	6	40	200	mg/m3	
2196	Oxydiethylenedicarbonic acid, diallyl ester	142-22-3	3	10	60	125	mg/m3	
2197	Oxydiphenoxarsine, 10,10'-; (Phenoxyarsine oxide)	58-36-6	1.68	2	14	14	mg/m3	Organic arsenic compound.
2198	Oxydisulfoton	2497-07-6	0.6	2	3.5	3.5	mg/m3	

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2199	Oxygen (liquid)	7782-44-7					ppm	TEEL values withdrawn, see SCAPA FAQ.
2200	**Oxygen difluoride; (Fluorine monoxide)**	**7783-41-7**	0.05	0.1	**0.83**	**2.5**	ppm	**New interim AEGL-2, -3.** T-1, T-2, T-3 changed.
2201	Ozone	10028-15-6	0.1	0.15	1	5	ppm	T-1 changed.
2202	Palladium	7440-05-3	10	30	50	200	mg/m3	
2203	Palladium chloride	7647-10-1	0.15	0.4	3	500	mg/m3	
2204	Palladium hydroxide	12135-22-7	0.125	0.3	2.5	75	mg/m3	**SAR**
2205	Paraffin waxes, petroleum, clay-treated, reaction products with petroleum white mineral oil, stearic acid and triethanolamine	71808-29-2	10	30	50	250	mg/m3	TSCA-listed.
2206	Paraffin, n-	8002-74-2	2	15	15	500	mg/m3	
2207	Paraffins, petroleum, normal C5-C20	64771-72-8	300	300	300	300	ppm	
2208	Paraformaldehyde	30525-89-4	4	12.5	75	100	mg/m3	
2209	Paraldehyde	123-63-7	10	30	50	500	mg/m3	
2210	Paraquat	4685-14-7	0.15	0.2	1.5	150	mg/m3	T-1,T-2 changed.
2211	Paraquat dichloride	1910-42-5	0.5	0.5	0.5	1	mg/m3	T-0, T-1, T-2 changed.
2212	Paraquat methosulfate; (Paraquat dimethyl sulphate)	2074-50-2	0.75	2	15	40	mg/m3	
2213	Parathion	56-38-2	0.1	0.15	2	10	mg/m3	T-1 changed.

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2214	Paris Green; (Cupric acetoarsenite)	12002-03-8	1.13	3.38	22	22	mg/m3	
2215	Particulate material (PNOS)	z-0037	10	30	50	250	mg/m3	
2216	PBX (mixture of HMX and nitrocellulose)	z-0038	0.24	0.6	5	500	mg/m3	
2217	**Pentaborane**	**19624-22-7**	0.005	0.015	**0.14**	**0.70**	ppm	**New interim AEGL-2, -3.** T-2, T-3 changed.
2218	Pentachlorobenzene	608-93-5	10	30	150	400	mg/m3	
2219	Pentachlorodibenzofuran, 1,2,3,7,8-	57117-41-6	0.0025	0.0075	0.06	0.3	mg/m3	
2220	Pentachlorodibenzofuran, 2,3,4,7,8-	57117-31-4	0.000025	0.000075	0.0006	0.4	mg/m3	
2221	Pentachlorodibenzo-p-dioxin, 1,2,3,7,8-	40321-76-4	0.00075	0.0025	0.015	0.075	mg/m3	
2222	Pentachloroethane	76-01-7	10	30	500	500	mg/m3	
2223	Pentachloronitrobenzene	82-68-8	0.5	1.5	300	500	mg/m3	
2224	Pentachlorophenol	87-86-5	0.5	2.5	2.5	2.5	mg/m3	
2225	Pentadecafluorooctanoic acid	335-67-1	4	12.5	75	75	mg/m3	
2226	Pentadecane	629-62-9	3.5	10	60	350	ppm	
2227	Pentadecanoic acid	1002-84-2	0.04	0.125	1	5	ppm	
2228	Pentadecylamine	2570-26-5	0.1	0.3	2	100	mg/m3	
2229	Pentaerythritol	115-77-5	15	30	50	500	mg/m3	

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2230	Pentaerythritol tetra(3-mercaptopropionate), reaction products with 2-(hydroxymethyl)-2-((3-mercapto-1-oxopropoxy)methyl)-1,3-propanediyl bis(3-mercaptopropanoate) and 1-octene	95823-35-1	10	30	50	250	mg/m3	TSCA listed, no MSDS, toxicity or pchem data found,
2231	Pentaerythritol tetranitrate	78-11-5	0.015	0.05	0.35	500	mg/m3	
2232	Pentafluorobenzoic acid	602-94-8	0.75	2	15	75	mg/m3	
2233	Pentafluoropropane, 1,1,1,3,3-	460-73-1	300	900	60000	60000	ppm	
2234	Pentane, n-	109-66-0	610	610	610	***1500***	ppm	See LEL Formattinng Note.
2235	Pentanediol, 1,5-	111-29-5	7.5	25	150	500	mg/m3	
2236	Pentanedione, 2,4-; (Acetylacetone)	123-54-6	15	50	100	100	ppm	
2237	Pentanenitrile	110-59-8	1.5	4	25	25	ppm	
2238	Pentanol, 2-; (sec-amyl alcohol; Methyl propyl carbinol; Isoamyl alcohol, secondary)	6032-29-7	100	125	125	500	ppm	
2239	Pentanone, 2-; (Methyl propyl ketone)	107-87-9	150	150	150	***1500***	ppm	Input data changed, T-0, T-1, T-2 changed. See LEL Formattinng Note.
2240	Pentanone, 3-; (Diethyl ketone)	96-22-0	200	300	300	750	ppm	
2241	Pentatriacontane	630-07-9	10	30	50	250	mg/m3	
2242	Pentene, 1-	109-67-1	300	750	***6000***	***75000***	ppm	HSDB TClo used. RTECS data added. See LEL Formattinng Note.
2243	Pentobarbital sodium; (Nembutal sodium)	57-33-0	0.15	0.5	3.5	50	mg/m3	

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2244	Pentyl alcohol, tert-; (tert-Amyl alcohol)	75-85-4	60	100	100	100	ppm	Pchem data varies in sources. Irritant in HSDB.
2245	Peptone; (Hydrolized protein, Tryptones)	73049-73-7	10	30	50	250	mg/m3	TSCA, H&N listed with Tryptones, no toxicity data found.
2246	**Peracetic acid**	**79-21-0**	0.15	**0.52**	**1.60**	**15**	mg/m3	**Interim AEGL-1, -2, -3.** All Ts changed. Units changed from ppm to mg/m3.
2247	Perboric acid, sodium salt	7632-04-4	0.5	1.5	10	500	mg/m3	
2248	Perchloric acid	7601-90-3	1	3.5	20	100	ppm	
2249	Perchloric acid, zinc salt, hexahydrate	10025-64-6	0.6	1.5	12.5	60	mg/m3	
2250	**Perchloroethylene; (Tetrachloroethylene)**	**127-18-4**	25	**35**	**230**	**1200**	ppm	**Interim AEGL-1, -2, -3.**
2251	**Perchloromethyl mercaptan**	**594-42-3**	0.013	**0.013**	**0.30**	**0.90**	ppm	**Interim AEGL-1, -2, -3.**
2252	Perchloryl fluoride; (Chlorine oxyfluoride)	7616-94-6	3	6	20	100	ppm	
2253	Percoll	65455-52-9	10	30	50	250	mg/m3	Not found in databases, assumed nonvolatile liquid.
2254	Perfluoro compounds, C5-C18; (Fluorinert electronic liquid perfluoro compounds)	86508-42-1	200	600	4000	25000	ppm	RTECS has LC > 40000 ppm. Pchem data varies between sources. All Ts changed.
2255	Perfluoroalkylether polymer; (Capped homopolymers of hexafluoropropylene epoxide, Fluorine End-)	60164-51-4	75	250	500	500	mg/m3	Added. TSCA listed, no toxicity data, HHR = 1 ex SRS .
2256	**Perfluoroisobutylene; (Octafluoro-sec-butene)**	**382-21-8**	0.005	0.015	**0.1**	**0.3**	ppm	**ERPG-2, -3.** T-0, T-1 changed.
2257	Perfluoropolyether; (1,1,2,3,3,3-hexafluoro-1-propene, oxidized, polymerized; Vacuum pump oil)	69991-67-9	10	30	200	500	mg/m3	Toxicity estimated from Hexafluoropropene, MSDS states an irritant.

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2258	Periodic acid	10450-60-9	0.18	0.18	0.5	5	mg/m3	No toxicity data found, used iodine values.
2259	Periodic acid, sodium salt	7790-28-5	0.25	0.75	5	25	mg/m3	
2260	Perlite; (Fused NaKAl silicate, < 1% quartz)	93763-70-3	15	45	75	500	mg/m3	T-0, T-1, T-2 changed.
2261	Permafluor E+	z-0039	100	150	500	500	mg/m3	Mixture ex MSDS
2262	Permafluor-V (85+% toluene)	z-0040	50	150	300	500	ppm	Mixture PPO, bis-MSB is 85-90% toluene, 10% methanol
2263	Peroxydicarbonic acid, disodium salt	3313-92-6	7.5	25	150	500	mg/m3	
2264	Petrolatum	8009-03-8	15	50	350	500	mg/m3	
2265	Petroleum 50 thinner; (Paint thinner)	z-0041	7.5	25	150	750	ppm	
2266	Petroleum asphalt	8052-42-4b	1.25	4	25	125	mg/m3	See Asphalt (ARO500), same CASRN, different toxicity
2267	Petroleum coke, calcined	64743-05-1	10	30	50	500	mg/m3	TSCA listed, no toxicity data.
2268	Petroleum distillate	8002-05-9a	350	350	500	500	mg/m3	See Petroleum (PCR250), same CASRN, different toxicity. Suppressed PEL-TWA.
2269	Petroleum distillates, clay-treated light naphthenic	64742-45-6	20	60	400	500	mg/m3	
2270	Petroleum distillates, low boiling	68477-31-6	350	350	500	500	mg/m3	NIOSH petroleum distillates limits used. PEL-TWA suppressed, all Ts changed.
2271	Petroleum mineral oil; (Extracts, petroleum, middle distillate solvent)	64742-06-9	10	30	500	500	mg/m3	
2272	Petroleum spirits; (Mineral spirits; Soltrol)	64475-85-0	20	60	400	***2000***	ppm	See LEL Formattinng Note.

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2273	Petroleum spirits; (VM & P Naphtha)	8032-32-4	300	300	395	395	ppm	
2274	Petroleum; (Petroleum crude oil)	8002-05-9b	350	500	500	500	mg/m3	Same CASRN as Petroleum distillate, PCS250, different toxicity. T-0 changed.
2275	Phenacetin; (p-acetophenetidide)	62-44-2	10	30	50	60	mg/m3	
2276	Phenaglycodol; (Ultran; 2-p-chlorophenyl-3-methyl-2,3-butanediol)	79-93-6	10	30	50	350	mg/m3	
2277	Phenanthrene	85-01-8	0.4	1	7.5	300	mg/m3	
2278	Phenanthroline ferrous sulfate, 1,10-	14634-91-4	10	30	50	250	mg/m3	
2279	Phenanthroline, 1,10-	66-71-7	0.1	0.3	2	30	mg/m3	
2280	**Phenol**	**108-95-2**	5	**15**	**23**	**200**	ppm	**Interim AEGL-1, -2. ERPG-1, -2, -3.**
2281	Phenol red, sodium salt	34487-61-1	7.5	25	150	500	mg/m3	TSCA listed, no toxicity data found.
2282	Phenol, polymer with formaldehyde, oxiranylmethyl ether	28064-14-4	15	50	350	500	mg/m3	TSCA listed mixture, no toxicity data, MSDS state, BP, VP, SG.
2283	Phenolphthalein	77-09-8	0.75	2.5	15	400	mg/m3	
2284	Phenoxyethanol, 2-; (Phenyl cellosolve)	122-99-6	20	20	20	100	ppm	
2285	**Phenyl Chloroformate; (Carbonochloridic acid, phenyl ester)**	**1885-14-9**	0.0075	0.025	**0.19**	**0.57**	ppm	**New interim AEGL-2, -3.** Pchem data ex MSDS. All Ts changed.
2286	**Phenyl dichloroarsine; (Dichlorophenylarsine)**	**696-28-6**	0.061	0.061	**0.061**	**0.18**	mg/m3	**New interim AEGL-2, -3.** All Ts changed.

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2287	Phenyl ether; (Diphenyl ether)	101-84-8	1	2	20	100	ppm	
2288	Phenyl isocyanate.	103-71-9	0.3	0.75	2	2	mg/m3	All Ts changed.
2289	Phenyl sepharose cl-4b	69106-59-8	10	30	50	250	mg/m3	Name corrected. Not found in databases, no MSDS for this CASRN. MSDS for Phenyl sepharose 6-fast flow gives HHR = 2.
2290	Phenyl-1,2-propanedione, 1-	579-07-7	2.5	7.5	50	250	mg/m3	
2291	Phenyl-2-oxzaoline, 2-	7127-19-7	1	3	5	25	ppm	Not found in databases. No useful data in MSDS.
2292	Phenyl-2-propanol, 2-; (Dimethylphenylmethanol)	617-94-7	1	3	20	100	ppm	SAR Ts = 4, 12.5, 100, 200 mg/m3 not used.
2293	Phenylacetylene; (Ethynylbenzene)	536-74-3	40	100	500	500	mg/m3	
2294	Phenylazo)aniline, p-(	60-09-3	0.6	2	12.5	75	mg/m3	
2295	Phenylboric acid; (Benzeneboronic acid)	98-80-6	3	7.5	60	300	mg/m3	
2296	Phenylcyclohexane; (Cyclohexylbenzene)	827-52-1	40	125	500	500	mg/m3	Mouse ip LD50 ignored.
2297	Phenylene diisocyanate, 1,4-	104-49-4	3.5	10	35	35	mg/m3	
2298	Phenylenediamine dihydrochloride, 1,2-	615-28-1	10	30	125	125	mg/m3	
2299	Phenylenediamine dihydrochloride, 1,4-	624-18-0	0.6	1.5	12.5	60	mg/m3	
2300	Phenylenediamine, 1,2-; (o-Phenylenediamine)	95-54-5	0.1	0.3	200	500	mg/m3	
2301	Phenylenediamine, 1,3-; (m-Phenylenediamine)	108-45-2	0.1	0.3	10	125	mg/m3	

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2302	Phenylenediamine, p-	106-50-3	0.1	0.6	4	25	mg/m3	
2303	Phenylhydrazine	100-63-0	0.1	0.3	2	15	ppm	PEL-TWA and REL-C ignored.
2304	Phenylhydrazine hydrochloride	59-88-1	50	150	250	250	mg/m3	
2305	Phenylmagnesium bromide	100-58-3	1.5	5	35	150	mg/m3	No toxicity or pchem data found, HHR = 3 from MSDS.
2306	Phenylmercury acetate; (Acetoxyphenylmercury)	62-38-4	0.168	16.8	16.8	16.8	mg/m3	As mercury compounds, all Ts changed.
2307	Phenylphenol, 2-	90-43-7	25	75	500	500	mg/m3	
2308	Phenylphosphine	638-21-1	0.01	0.03	0.05	15	ppm	T-0, T-1 changed.
2309	Phenylpropanolamine hydrochloride; (Propadrine hydrochloride)	154-41-6	0.06	0.15	1.25	500	mg/m3	
2310	Phenylsilatrane	2097-19-0	0.2	0.6	1	1	mg/m3	
2311	Phenylthiourea; (1-phenyl-2-thiourea)	103-85-5	3	3	3	3	mg/m3	
2312	Phenyltriethoxysilane	780-69-8	10	35	250	500	mg/m3	
2313	Phenyltrimethoxysilane	2996-92-1	1.5	4	30	150	mg/m3	
2314	Phenylxylylethane; (PXE)	6196-95-8	10	30	50	250	mg/m3	
2315	Phloroglucinol dihydrate	6099-90-7	4	12.5	75	400	mg/m3	Mouse LD > 500 mg/kg.
2316	Phorate	298-02-2	0.05	0.1	0.6	0.6	mg/m3	
2317	Phosacetim	4104-14-7	0.75	2	3.7	3.7	mg/m3	

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Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2318	Phosfolan	947-02-4	1.5	5	9	9	mg/m3	
2319	**Phosgene**	**75-44-5**	0.1	0.1	**0.30**	**0.75**	ppm	**Final AEGL-2, -3.**
2320	Phosmet	732-11-6	0.025	0.075	0.54	40	mg/m3	
2321	Phosphamidon; (Famfos)	13171-21-6	0.06	0.15	0.3	60	mg/m3	
2322	**Phosphine**	**7803-51-2**	0.3	1	**2.0**	**3.6**	ppm	**New Final AEGL-2, -3.**
2323	Phosphomolybdic acid	11104-88-4	16.7	50	83.3	400	mg/m3	TSCA listed, no toxicity or pchem data found. SG and HR ex SRS.
2324	Phosphonic acid	13598-36-2	2	6	50	500	mg/m3	
2325	Phosphonic acid, dioctadecyl ester	19047-85-9	0.02	0.06	0.4	2	mg/m3	**SAR**
2326	Phosphonic acid, tridodecyl ester	3076-63-9	12.5	40	250	500	mg/m3	Rat oral LD > 3160 mg/kg
2327	Phosphoric acid	7664-38-2	1	3	500	500	mg/m3	
2328	Phosphoric acid, dimethyl-p-(methylthio)phenyl ester	3254-63-5	1.25	4	7	7	mg/m3	
2329	Phosphorous acid, o-; (Phosphonic acid)	10294-56-1	1	3	200	500	mg/m3	TSCA and ChemFinder listed with no pchem or toxicity data. Assumed phosphoric acid limits.
2330	Phosphorous pentafluoride	7647-19-0	0.644	1.5	12.5	64.4	ppm	
2331	Phosphorous trifluoride	7783-55-3	1.07	3	20	107	ppm	
2332	Phosphorus (red)	7723-14-0	0.04	0.125	0.75	4	mg/m3	

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No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2333	Phosphorus (yellow); (White phosphorus)	12185-10-3	0.1	0.4	3	5	mg/m3	
2334	**Phosphorus oxychloride**	**10025-87-3**	0.1	0.479	0.479	**0.85**	ppm	**Interim AEGL-3.**
2335	Phosphorus pentachloride	10026-13-8	1	2	12.5	70	mg/m3	
2336	Phosphorus pentasulfide	1314-80-3	1	3	50	250	mg/m3	
2337	**Phosphorus pentoxide**	**1314-56-3**	1	**1**	**10**	**50**	mg/m3	**ERPG-1, -2, -3**
2338	**Phosphorus trichloride**	**7719-12-2**	0.34	**0.34**	**2.0**	**5.6**	ppm	**Interim AEGL-1, -2, -3.** T-0, T-1 changed.
2339	Phosphorus trioxide	1314-24-5	0.4	1.25	7.5	40	mg/m3	No toxicity data found, LC50 based on SAX HR
2340	Phthalic acid	88-99-3	0.02	0.06	0.5	500	mg/m3	
2341	Phthalic acid, benzyl butyl ester; (Benzyl butyl phthalate)	85-68-7	5	15	500	500	mg/m3	
2342	Phthalic anhydride	85-44-9	12	12	40	60	mg/m3	
2343	Phthaloyl dichloride; (Phthaloyl chloride)	88-95-9	0.1	0.3	2	10	ppm	TSCA listed, no toxicity data found. HHR =3 from MSDS.
2344	Physostigmine	57-47-6	0.75	2.5	4.5	4.5	mg/m3	
2345	Physostigmine salicylate (1:1)	57-64-7	0.5	1.5	2.5	2.5	mg/m3	
2346	Picolinic acid; (2-Pyridinecarboxylic acid)	98-98-6	10	35	150	150	mg/m3	HC&P pchem data
2347	Picric acid	88-89-1	0.1	0.3	15	75	mg/m3	
2348	Picrotoxin	124-87-8	3	7.5	15	15	mg/m3	

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No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2349	Pigment green 36	14302-13-7	15	50	350	500	mg/m3	
2350	Pigment yellow 13; (Butanamide, 2,2'-((3,3'-dichloro(1,1'-biphenyl)-4,4'-diyl)bis(azo)bis(N-(2,4-dimethylphenyl)-3-oxo-)	5102-83-0	75	250	500	500	mg/m3	
2351	Pigment yellow 14	5468-75-7	20	60	400	500	mg/m3	
2352	Pigment yellow 36; (Zinc chromate)	13530-65-9	0.0176	0.106	15	52.9	mg/m3	
2353	Pinacolone; (3,3-Dimethyl-2-butanone)	75-97-8	1.5	4.88	200	1000	ppm	
2354	Pinacolyl alcohol; ((tert-Butyl methyl carbinol)	464-07-3	250	750	750	750	ppm	
2355	Piperazine	110-85-0	2	6	40	500	mg/m3	
2356	**Piperidine**	**110-89-4**	1	**6.6**	**33**	**110**	ppm	**Interim AEGL-1, -2, -3.**
2357	Pirimifos-ethyl	23505-41-1	5	15	25	60	mg/m3	
2358	Pivalic anhydride; (Trimethylacetic anhydride)	1538-75-6	10	30	50	250	mg/m3	TSCA listed, no toxicity data, no MSDS found, assumed non-volatile.
2359	Platinum	7440-06-4	1	3	4	4	mg/m3	
2360	Platinum cyanide	592-06-3	0.00253	0.0076	0.0127	5.07	mg/m3	
2361	Poly alpha olefin; (Synthetic hydrocarbon mixture, PAO; Hydrogenated trimer and tetramer of decene)	68649-12-7	5	10	50	250	mg/m3	
2362	Poly(1-(2-oxo-1-pyrrolidinyl)ethylene)iodine complex; (Iodine solutions)	25655-41-8	12.5	50	400	500	mg/m3	T-1, T-2, T-3 changed.

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No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2363	Poly(1-vinyl-2-pyrrolidinone) homopolymer; (Polyvinylpyrrolidone; Plasdone)	9003-39-8	100	300	500	500	mg/m3	RTECS 9 listings, used "homopolymer".
2364	Poly(acrylamide-co-diallyldimethylammonium chloride)	26590-05-6	10	30	50	250	mg/m3	TSCA listed, no toxicity data found.
2365	Poly(dimethylsiloxane), ethoxylated, dihydroxy terminated; (Silicon oil polymer)	68037-63-8	75	250	500	500	mg/m3	TSCA listed, no toxicity data found, HHR =1 estimated.
2366	Poly(dimethylsiloxane), hydride terminated	70900-21-9	10	30	50	250	mg/m3	TSCA listed, no toxicity or pchem data found.
2367	Poly(dimethylsiloxane), vinyl dimethylsiloxy terminated	68083-19-2	60	200	500	500	mg/m3	RTECS rat LD50 > 16 mL/kg. No pchem data found, SG = 1 assumed.
2368	Poly(divinylbenzene); (Diethylbenzene homopolymer)	9003-69-4	7.5	25	150	500	mg/m3	TSCA listed, no toxicity data. MSDS HHR = 2. Name changed and TSCA name added as synonym.
2369	Poly(ethylene glycol methyl ether)	9004-74-4	75	250	500	500	mg/m3	Lowest MW and most toxic of three entries chosen, assumed SG - 1.
2370	Poly(ethylene glycol)diacrylate	26570-48-9	1.5	5	35	150	mg/m3	TSCA listed, no toxicity or pchem data found, HHR = 3 in MSDS.
2371	Poly(melamine-co-formaldehyde), methylated	68002-20-0	60	150	500	500	mg/m3	MW average.
2372	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/m3	
2373	Poly(oxyethylene)(2) stearyl ether	9005-00-9	7.5	20	150	500	mg/m3	Most toxic of three RTECS entries used.
2374	Poly(Styrene-co-divinylbenzene); (Dowex Optipore V-502)	69011-14-9	10	30	50	250	mg/m3	TSCA listed, no pchem or toxicity data found.
2375	Polyamide 6; (Capron; Poly(iminocarbonylpentamethylene))	25038-54-4	10	30	200	500	mg/m3	MW = 111 x n
2376	Polybutyl acrylate	9003-49-0	10	30	50	250	mg/m3	No toxicity data found.

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 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2377	Polychlorinated biphenyl (Aroclor 1016); (Chlorodiphenyl (41% Cl))	12674-11-2	0.2	0.6	1	5	mg/m3	
2378	Polychlorinated biphenyl (Aroclor 1016/1242): (Chlorodiphenyl (37% Cl))	z-0042	0.2	0.6	1	5	mg/m3	
2379	Polychlorinated biphenyl (Aroclor 1221); (Chlorodiphenyl (21% Cl))	11104-28-2	0.2	0.6	1	5	mg/m3	
2380	Polychlorinated biphenyl (Aroclor 1232); (Chlorodiphenyl (32% Cl))	11141-16-5	0.2	0.6	1	5	mg/m3	
2381	Polychlorinated biphenyl (Aroclor 1242); (Chlorodiphenyl (42% Cl))	53469-21-9	1	3	5	5	mg/m3	
2382	Polychlorinated biphenyl (Aroclor 1248); (Chlorodiphenyl (48% Cl))	12672-29-6	0.2	0.6	1	5	mg/m3	
2383	Polychlorinated biphenyl (Aroclor 1254); (Chlorodiphenyl (54% Cl))	11097-69-1	0.5	1.5	2.5	5	mg/m3	
2384	Polychlorinated biphenyl (Aroclor 1260); (Chlorodiphenyl (60% Cl))	11096-82-5	0.2	0.6	1.5	5	mg/m3	
2385	Polychlorinated biphenyl (Aroclor 1260/1262): (Chlorodiphenyl (61% Cl?))	z-0043	0.2	0.6	1.5	5	mg/m3	Used Aroclor 60% Cl. LANL CASRN not used since it is for 60% Cl
2386	Polychlorinated biphenyl (Aroclor 1262); (Chlorodiphenyl (62% Cl))	37324-23-5	1	3	5	5	mg/m3	
2387	Polychlorinated biphenyl (Aroclor 1268); (Chlorodiphenyl (68% Cl))	11100-14-4	0.2	0.6	1	5	mg/m3	Used IDLH for other aroclors
2388	Polychlorinated biphenyl; (Aroclor; PCBs)	1336-36-3	1	3	5	5	mg/m3	MW range = 292-361
2389	Polydimethyl siloxane; (Dimethylpolysiloxane)	9016-00-6	7.5	25	150	500	mg/m3	Rat ip LD50
2390	Polyether polyol ester	z-0112	15	50	350	500	mg/m3	Listed in RTECS, no CASRN or pchem data. T-0, T-1, T-2 changed.
2391	**Polyethylbenzene residue; (Dowtherm Q)**	**68987-42-8**	1	3	**19.2**	100	ppm	**ERPG-2 only (150 mg/m3).**
2392	Polyethylene	9002-88-4	10	30	50	500	mg/m3	

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.
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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2393	Polyethylene glycol	25322-68-3	10	60	500	500	mg/m3	
2394	Polyethylene glycol 20M	37225-26-6	10	30	500	500	mg/m3	No toxicity data, CASRN 37225-26-6, SAX PJT000 data used.
2395	Polyethylene glycol dimethacrylate	25852-47-5	10	30	50	250	mg/m3	TSCA listed, no toxicity or pchem data found.
2396	Polyglycol 15-200: (Calthane NF and ND "B")	9082-00-2	40	125	500	500	mg/m3	
2397	Polyisocyanate prepolymer (based on MDI)	z-0115	0.6	1.5	12.5	60	mg/m3	Added. Used "… -hexamethalene-1,6-diisocyanate-based-", RTECS NQ9190000
2398	Polymaleic acid; (2-Butenediiodic acid homopolymer)	26099-09-2	10	30	50	250	mg/m3	TSCA listed, no toxicity or pchem data found.
2399	Polymerized linseed oil	67746-08-1	7.5	25	150	500	mg/m3	TSCA listed. No toxicity or pchem data found. No MSDS found. SRS HHR = 2.
2400	Polymethylene polyphenyl isocyanate; (Polymeric diphenylmethane diisocyanate)	9016-87-9	2	6	40	200	mg/m3	
2401	Polymethylhydrosiloxane; (Methyl hydrogen polysiloxane)	63148-57-2	10	30	50	250	mg/m3	TSCA and ChemFinder listed, no pchem or toxicity data found.
2402	Polymethylmethacrylate; (Lucite)	9011-14-7	5	15	100	500	mg/m3	
2403	Polyoxyalkyleneamine; (Poly(oxypropylene)diamine)	9046-10-0	10	30	50	100	mg/m3	
2404	Polyoxyethylene (20) sorbitan monolaurate	9005-64-5	3	7.5	60	500	mg/m3	Polysorbate 20 same CASRN, less toxic.
2405	Polyoxyethylene monooctylphenyl ether	9036-19-5	15	50	350	500	mg/m3	
2406	Polyoxyethylene sorbitan monopalmitate; (Tween 40)	9005-66-7	12.5	40	250	500	mg/m3	No pchem data found.
2407	Polyoxypropylene polyamine	39423-51-3	10	30	50	250	mg/m3	Added. TSCA listed, no toxicity or pchem data found.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.
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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2408	Polyphosphoric acid	8017-16-1	1.5	5	40	200	mg/m3	No toxicity data, based Ts on MSDS data
2409	Polypropylene	9003-07-0	12.5	40	250	500	mg/m3	SAX PKI250 has same CASRN for "combustion products", tox. data not used
2410	Polypropylene glycol,chloromethyl) oxirane polymer	9072-62-2	7.5	25	150	500	mg/m3	Rat oral LD50 > 2 g/kg. No MSDS found.
2411	Polypropylene glycols	25322-69-4	10	30	200	500	mg/m3	RTECS has 16 listings, used PPG 425.
2412	Polypropylene-polyethylene glycol; (Pluronic L-81)	9003-11-6	10	30	200	500	mg/m3	
2413	Polysorbate 85; (Tween 85)	9005-70-3	75	250	500	500	mg/m3	No toxicity data found.
2414	Polystyrene resin; (Styrene polymer)	9003-53-6	10	30	50	75	mg/m3	
2415	Polysulfone resin	25135-51-7	10	30	50	250	mg/m3	Not found in databases.
2416	Polytetrafluoroethylene; (Teflon)	9002-84-0	3.5	10	60	350	mg/m3	
2417	Polyurethane foam; (Urethane polymers)	9009-54-5	0.2	0.6	5	25	mg/m3	
2418	Polyurethane prepolymer of MDI + polyether polyol	65636-36-4	10	30	50	250	mg/m3	Added. TSCA listed, no toxicity or pchem data found.
2419	Polyurethane prepolymer of MDI and PEP	68092-58-0	10	30	50	250	mg/m3	Listed in TSCA, no pchem or toxicity data.
2420	Polyvinyl alcohol	9002-89-5	40	125	500	500	mg/m3	
2421	Polyvinyl chloride	9002-86-2	1	3	40	200	mg/m3	New TLV-TWA and toxicity data added. All Ts changed.
2422	Potassium	7440-09-7	0.075	0.2	1.5	300	mg/m3	All Ts changed.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.
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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2423	Potassium acetate	127-08-2	12.5	40	250	500	mg/m3	
2424	Potassium acid fluoride	7789-29-9	5.14	15.4	25.7	500	mg/m3	
2425	Potassium aluminate	12003-63-3	7.27	21.8	36.3	150	mg/m3	No toxicity data found.
2426	Potassium aluminite	z-0044	2.5	7.5	12.5	500	mg/m3	**SAR**
2427	Potassium aluminosilicate	1327-44-2	5	30	50	500	mg/m3	**SAR**
2428	Potassium antimonate	29638-69-5	2.1	6.31	10.5	210	mg/m3	No toxicity data found.
2429	Potassium antimonate; (Potassium hexahydroxyantimonate)	12208-13-8	1.08	3.24	5.4	108	mg/m3	Used H&N MW & MF for this CASRN. KSbO3 not found.
2430	Potassium antimonite	z-0045	0.94	2.82	4.7	94	mg/m3	
2431	Potassium argentate	z-0046	0.0168	0.0503	0.0839	16.8	mg/m3	
2432	Potassium arsenate; (Monopotassium arsenate)	7784-41-0	0.024	0.072	2.5	12	mg/m3	MW and MF differ by one H in RTECS, HSDB, etc.
2433	Potassium arsenite	10124-50-2	0.0533	6	26.7	26.7	mg/m3	Used RTECS, HSDB, H&N, TSCA CASRN, MW, MF.
2434	Potassium arsenite; (Arsenous acid, potassium salt)	13464-35-2	0.0195	0.0585	6	9.74	mg/m3	
2435	Potassium beryllium oxide	z-0047	0.016	0.08	6	32	mg/m3	
2436	Potassium bicarbonate	298-14-6	12.5	35	60	500	mg/m3	TSCA MF = C-H2-O3.K; both H&N and HC&P same as SAX; no toxicity data found. SAR
2437	Potassium bi-iodate	13455-24-8	4	12.5	75	400	mg/m3	TSCA listed, No pchem data found, MSDS toxicity data.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.
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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2438	Potassium bismuthate	12589-75-2	1.25	4	25	200	mg/m3	RTECS CASRN, with mw = 296.08, MF = Bi-O3.K., lists both LD50 & TDlo. **SAR**
2439	Potassium bisulfate	7646-93-7	10	30	200	500	mg/m3	
2440	Potassium bromate	7758-01-2	0.1	0.3	60	60	mg/m3	
2441	Potassium bromide	7758-02-3	12.5	40	250	500	mg/m3	
2442	Potassium cadminate	z-0048	0.0115	0.069	0.115	20.7	mg/m3	MF based on MW.
2443	Potassium carbonate	584-08-7	10	20	150	500	mg/m3	
2444	Potassium chlorate	3811-04-9	12.5	40	300	350	mg/m3	
2445	Potassium chloride	7447-40-7	1.5	5	15	15	mg/m3	
2446	Potassium chromate(VI)	7789-00-6	0.0187	0.75	6	56	mg/m3	
2447	Potassium citrate	866-84-2	1.25	4	30	150	mg/m3	
2448	Potassium citrate, monohydrate	6100-05-6	10	30	50	250	mg/m3	Not found in databases
2449	Potassium columbate; (Potassium niobate)	12030-85-2	12.5	35	250	500	mg/m3	
2450	Potassium cyanide	151-50-8	5	5	5	62.6	mg/m3	
2451	Potassium dichromate	7778-50-9	0.0141	1.5	10	42.4	mg/m3	
2452	Potassium dideuterium phosphate	13761-79-0	0.0015	0.004	0.0075	0.015	mg/m3	ChemFinder MF = D2.K.O4.P, MW = 138.08936. T-3 changed.
2453	Potassium ferricyanide	13746-66-2	5.9	17.7	30	500	mg/m3	

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2454	Potassium ferrocyanide; (Tetrapotassium hexacyanoferrate)	13943-58-3	11.8	35.4	59	59	mg/m3	"Trihydrate removed from name and MF, CASRN and MW correct.
2455	Potassium fluoride	7789-23-3	7.65	22.9	38.2	500	mg/m3	
2456	Potassium fluoride dihydrate	13455-21-5	12.4	37.2	61.9	500	mg/m3	
2457	Potassium formate	590-29-4	20	60	500	500	mg/m3	
2458	Potassium glycolate	1932-50-9	7.5	20	150	750	ppm	**SAR**
2459	Potassium gold cyanide	554-07-4	27.7	83	138	138	mg/m3	No toxicity or pchem data found, MW and MF ex ChemFinder.
2460	Potassium hexacyanoferrate(II) trihydrate; (Potassium ferricyanide trihydrate)	14459-95-1	13.5	40.6	67.6	67.6	mg/m3	
2461	Potassium hexafluorosilicate; (Silicate(2-), hexafluoro-, dipotassium)	16871-90-2	0.4	1.25	7.5	60	mg/m3	
2462	Potassium hydride	7693-26-7	1.5	5	35	150	mg/m3	No toxicity data found.
2463	Potassium hydrogen lead oxide	z-0049	0.06	0.06	0.06	125	mg/m3	**SAR**
2464	Potassium hydrogen metasilicate	z-0051	10	30	50	250	mg/m3	Not found in databases. MF changed.
2465	Potassium hydrogen pyrophosphate	z-0050	4	12.5	20	400	mg/m3	**SAR**
2466	Potassium hydroxide	1310-58-3	0.1	0.3	2	125	mg/m3	GOEV REL incorrect. T-0, T-1, T-3 changed.
2467	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**
2468	Potassium iodate	7758-05-6	20	60	60	60	mg/m3	

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2469	Potassium iodide	7681-11-0	0.25	0.75	6	300	mg/m3	
2470	Potassium lanthanate	z-0053	0.4	1.25	2.5	2.5	mg/m3	**SAR**
2471	Potassium metaborate	13709-94-9	12.5	35	250	500	mg/m3	CASRN ex LANL added, TSCA MF, MW used. SAR
2472	Potassium molybdate	13446-49-6	12.4	37.2	62.1	500	mg/m3	
2473	Potassium nickel oxide (liquids); (Nickel potassium oxide)	50811-97-7	2.88	2.88	3	28.8	mg/m3	
2474	Potassium nickelate (liquids)	z-0055	3.49	3.49	3.5	34.9	mg/m3	
2475	Potassium nickelate (solids)	z-0056	3.49	3.49	3.5	34.9	mg/m3	
2476	Potassium nitrate	7757-79-1	1	3.5	25	500	mg/m3	SAX MW incorrect. T-2 changed.
2477	Potassium nitrilotriacetate; (Potassium NTA)	2399-85-1	5	15	100	500	mg/m3	
2478	Potassium nitrite	7758-09-0	0.04	0.1	0.75	500	mg/m3	
2479	Potassium orthovanadate	14293-78-8	0.0638	0.191	0.638	44.6	mg/m3	
2480	Potassium oxalate	583-52-8	7.5	25	150	500	mg/m3	MF and MW from RTECS, TSCA and SAX.used but differ from HC&P, H&N, ChemFinder.
2481	Potassium oxalate monohydrate	6487-48-5	7.5	25	150	500	mg/m3	No toxicity data found. Used Potassium oxalate, CASRN 583-52-8
2482	Potassium oxide	12136-45-7	0.05	0.15	1	60	mg/m3	Added. No toxicity or conc. limit data found. Based on KOH values.
2483	Potassium perchlorate	7778-74-7	125	400	500	500	mg/m3	

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.
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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2484	Potassium periodate	7790-21-8	1	3	20	100	mg/m3	Rat LC50 estimated from HR
2485	Potassium permanganate	7722-64-7	0.575	8.63	14.4	125	mg/m3	
2486	Potassium persulfate; (Dipotassium persulfate)	7727-21-1	0.1	0.3	60	350	mg/m3	
2487	Potassium phosphate dibasic trihydrate	16788-57-1	300	500	500	500	mg/m3	Not found, but K phosphate dibasic, CASRN = 7758-11-4, SAX PLQ400 toxicity used
2488	Potassium phosphate, dibasic	7758-11-4	10	30	50	250	mg/m3	
2489	Potassium phosphate, monobasic	7778-77-0	10	30	50	500	mg/m3	
2490	Potassium phosphate, tribasic	7778-53-2	10	30	50	500	mg/m3	
2491	**Potassium phosphide**	**20770-41-6**	0.4	1.25	**2.0**	**3.6**	ppm	Added. **New Interim AEGL-2, -3.**
2492	Potassium pyrophosphate; (Tetrapotassium diphosphorate)	7320-34-5	10	30	500	500	mg/m3	
2493	Potassium pyrosulfate; (Disulfuric acid, dipotassium salt)	7790-62-7	10	30	50	250	mg/m3	
2494	Potassium pyrosulfite; (Potassium metabisulfite)	16731-55-8	20	60	400	500	mg/m3	Added. MF and MW vary between sources.
2495	Potassium selenate	7790-59-2	0.56	1.68	2.8	2.8	mg/m3	
2496	Potassium selenite	10431-47-7	0.52	0.52	0.52	2.6	mg/m3	TSCA MF = 2K.H2SeO3.
2497	Potassium silicate; (Silicic acid, potassium salt)	1312-76-1	10	30	50	250	mg/m3	Listed in HSDB and TSCA
2498	Potassium silver cyanide	506-61-6	1	3	20	20	mg/m3	

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 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2499	Potassium stannate	12142-33-5	2.5	7.5	12.5	125	mg/m3	**SAR** Potassium stannate trihydrate has CASRN = 12125-03-0 mu iv LD50, and Sn cmpnd limits, Ts are 4, 12.5, 20, 150
2500	Potassium strontium phosphate	53201-92-6	10	30	50	500	mg/m3	**SAR**
2501	Potassium sulfate (2:1); (Dipotassium sulfate)	7778-80-5	2	6	40	500	mg/m3	
2502	Potassium sulfite	10117-38-1	7.5	25	150	500	mg/m3	HSDB oral lethal dose range 0.5 to 5 g/kg. MF and MW vary between sources. All Ts changed.
2503	Potassium tellurate	15571-91-2	0.211	0.634	1.06	2	mg/m3	TSCA MF = 2K-Te-H2-O4.
2504	Potassium tellurite	7790-58-1	0.199	0.597	3.5	15	mg/m3	
2505	Potassium tetrafluoroborate(1-)	14075-53-7	4.14	124	207	414	mg/m3	
2506	Potassium tetraphenylborate	3244-41-5	1	3	5	25	mg/m3	Data from MSDS
2507	Potassium thiocyanate	333-20-0	12.5	35	60	60	mg/m3	T-0 changed.
2508	Potassium trihydrogen silicate	z-0058	10	30	50	250	mg/m3	
2509	Potassium tungstate (liquids)	7790-60-5a	1.77	5.32	5.32	5.32	mg/m3	
2510	Potassium tungstate (solids)	7790-60-5b	1.77	5.32	5.32	5.32	mg/m3	
2511	Potassium uranyl carbonate	z-0059	0.429	1.03	3.5	17.2	mg/m3	
2512	Potassium zirconate; (Dipotassium zirconium oxide)	12030-98-7	11.9	23.8	25	119	mg/m3	T-2, T-3 changed.

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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 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2513	Potassium-tert-butoxide; (tert-Butyl alcohol, potassium derivitave)	865-47-4	1.5	5	35	150	mg/m3	LD50 estimated, databases MF differ
2514	Praseodymium	7440-10-0	1.5	5	35	150	mg/m3	No toxicity data found.
2515	Praseodymium nitrate	10361-80-5	7.5	20	150	500	mg/m3	
2516	Praseodymium oxide	12036-32-7	7.5	25	150	500	mg/m3	No toxicity data found, rat oral LD50 estimated from other Pr compounds
2517	Praseodymium(III,IV) oxide	12037-29-5	20	60	400	500	mg/m3	RTECS rat LD50 > 5 g/kg' no pchem data found.
2518	Promecarb; (m-Cym-5-yl methylcarbamate)	2631-37-0	3	10	16	25	mg/m3	
2519	Propanamine, 1-; (Propylamine)	107-10-8	15	50	250	250	ppm	
2520	**Propane**	**74-98-6**	1000	***5500***	***17000***	***33000***	ppm	**Interim AEGL-1, -2, -3.** See LEL Formattinng Note.
2521	Propane sultone, 1,3-	1120-71-4	0.4	1.25	7.5	20	mg/m3	
2522	Propanediamine, 1,2-	78-90-0	7.5	25	200	500	mg/m3	
2523	Propanediamine, 1,3-	109-76-2	0.2	0.6	4	40	ppm	
2524	**Propanedinitrile; (Malononitrile)**	**109-77-3**	3	3	**4.9**	**10**	ppm	**Interim AEGL-2, -3.** All Ts changed.
2525	Propanediol, 1,3-	504-63-2	20	60	400	500	mg/m3	
2526	Propanediol, 2,2-dimethyl-, 1,3-	126-30-7	600	600	600	600	ppm	
2527	Propanethiol	107-03-9	0.025	0.075	0.5	750	ppm	
2528	Propanol, zirconium(4+) salt, 1-	23519-77-9	18	53.9	89.8	180	mg/m3	Not found in databases.

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2529	**Propargyl alcohol**	**107-19-7**	1	**2.5**	**16**	**74**	ppm	**New interim AEGL-1, A-2, -3.** T-1, T-2, T-3 changed.
2530	Propargyl bromide	106-96-7	0.03	0.03	0.03	20	mg/m3	
2531	Propiolactone, b-	57-57-8	0.5	0.509	5.09	15	ppm	
2532	**Propionaldehyde**	**123-38-6**	20	**45**	**260**	**840**	ppm	**Interim AEGL-1, -2, -3.**
2533	Propionic acid	79-09-4	10	10	15	350	ppm	
2534	Propionic acid, 3-ethoxy-, ethyl ester	763-69-9	20	60	400	500	mg/m3	
2535	Propionic acid, sodium salt	137-40-6	15	50	350	500	mg/m3	
2536	Propionic anhydride	123-62-6	10	30	200	500	mg/m3	
2537	**Propionitrile; (Propiononitrile)**	**107-12-0**	6	6	**7.0**	**37**	ppm	**Interim AEGL-2, -3.**
2538	Propionyl chloride	79-03-8	0.075	0.2	1.5	7.5	ppm	
2539	Propoxur	114-26-1	0.5	1.5	20	20	mg/m3	
2540	Propoxypropanol, , n-; (Propylene glycol monpropyl ether)	30136-13-1	1.25	4	25	125	ppm	Added.
2541	Propyl acetate, n-	109-60-4	200	250	1000	***1700***	ppm	See LEL Formattinng Note.
2542	Propyl alcohol, n-; (n-Propanol)	71-23-8	200	250	250	800	ppm	
2543	**Propyl chloroformate; (Propyl chlorocarbonate)**	**109-61-5**	0.75	2	**3.7**	**11**	ppm	**New interim AEGL-2, -3.** All Ts changed.

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2544	Propyl nitrate	627-13-4	25	40	100	500	ppm	T-2, T-3 changed.
2545	Propyl-1-butanamine, N-	20193-21-9	15	50	350	500	mg/m3	**SAR**
2546	Propylbenzene, n-; (Isocumene)	103-65-1	30	75	600	***3000***	ppm	See LEL Formattinng Note.
2547	Propylene carbonate, 1,2-	108-32-7	0.125	0.35	2.5	12.5	mg/m3	
2548	**Propylene glycol dinitrate**	**6423-43-4**	0.05	**0.17**	**1.0**	**13**	ppm	**New final AEGL-1, -2, -3.** Component of "Otto fuel". T-1, T-2, T-3 changed.
2549	Propylene glycol monomethyl ether acetate; (1-Methoxypropyl-2-acetate)	108-65-6	50	150	250	600	ppm	
2550	Propylene glycol monomethyl ether; (Ucar Triol HG-170)	107-98-2	100	150	300	750	ppm	
2551	Propylene glycol mono-n-butyl ether; (3-butoxy-1-propanol)	10215-33-5	50	50	300	500	ppm	
2552	Propylene glycol; (1,2-Propanediol)	57-55-6	10	10	10	500	mg/m3	
2553	**Propylene oxide; (Methyl ethylene oxide)**	**75-56-9**	2	**73**	**290**	**870**	ppm	**Interim AEGL-1, -2, -3.** PEL-TWA ignored. T-0 changed.
2554	Propylene; (1-Propene)	115-07-1	500	1500	***10000***	***20000***	ppm	See LEL Formattinng Note.
2555	**Propyleneimine, 1,2-**	**75-55-8**	2	2	**12**	**23**	ppm	**Interim AEGL-2, -3.**
2556	**Propyltrichlorosilane**	**141-57-1**	0.2	**0.60**	**7.3**	**33**	ppm	**New interim AEGL-1, -2, -3.** Added.
2557	Prothoate; (Isopropyl diethyldithiophosphorylacetamide)	2275-18-5	0.35	1	1.7	7.5	mg/m3	
2558	Pump oil	64742-65-0	100	300	500	500	mg/m3	

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2559	Pyrene	129-00-0	2.5	7.5	15	15	mg/m3	
2560	Pyridine	110-86-1	5	15	200	1000	ppm	
2561	Pyridinecarboxaldehyde, 4-; (Isonicotinaldehyde)	872-85-5	12.5	40	250	500	mg/m3	
2562	Pyridine-d5	7291-22-7	5	15	25	100	ppm	Not listed in databases, MSDS toxicity and pchem data.
2563	Pyriminil; (Pyriminyl)	53558-25-1	1.25	3.5	6.2	20	mg/m3	
2564	Pyrogallic acid	87-66-1	0.75	2.5	15	25	mg/m3	
2565	Pyromellitic acid	89-05-4	1.25	3.5	25	125	mg/m3	
2566	Pyroxylin; (Cellulose tetranitrate)	9004-70-0	10	30	50	500	mg/m3	
2567	Pyrrole; (Imidole)	109-97-7	0.035	0.1	0.75	4	ppm	
2568	Pyrrolidine	123-75-1	5	15	100	500	mg/m3	
2569	Pyrrolidinone, 2-	616-45-5	1	3	20	40	ppm	
2570	Pyruvate kinase	9001-59-6	2.5	7.5	50	500	mg/m3	No data found. Glycolytic enzyme toxicity based on Kinase (9039-53-6) and Pyruvic acid (127-17-3)
2571	Quaternary ammonium compounds, benzyl-C12-C16-alkyldimethyl, chlorides	68424-85-1	1.5	5	35	150	mg/m3	
2572	Quinhydrone	106-34-3	0.3	0.75	6	30	mg/m3	
2573	Quinoline	91-22-5	0.001	0.6	5	25	ppm	

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2574	Quinolinol, 8-	148-24-3	2.5	7.5	50	500	mg/m3	
2575	Resorcinol	108-46-3	10	20	20	20	ppm	
2576	Rexyn I-300; (Ethylene glycol dimethacrylate polymer with styrene, chloromethylated, trimethylamine-quanternized, hydroxide)	69011-49-0	10	30	50	250	mg/m3	TSCA listed, MW is for x = 1. No toxicity data found. SG ex MSDS.
2577	Rhenium hexafluoride	10049-17-9	6.58	19.8	32.9	500	mg/m3	TSCA, HC&P listed. No toxicity data found.
2578	Rhenium oxide; (Rhenium(VII) oxide)	1314-68-7	1.3	3.9	6.5	30	mg/m3	Soluble W limits used.
2579	Rhodium	7440-16-6	0.1	3	5	100	mg/m3	
2580	Rhodium oxide (liquids); (Rhodium(IV) oxide)	12137-27-8a	0.00131	0.0393	0.5	2.6	mg/m3	Liquid treated as soluble.
2581	Rhodium oxide (solids); (Rhodium((IV) oxide)	12137-27-8b	0.131	3.93	6.56	131	mg/m3	Solids treated as insoluble.
2582	Rhodium(III) hydroxide (liquids)	21656-02-0a	0.0015	0.045	0.6	2.99	mg/m3	Liquid treated as soluble.
2583	Rhodium(III) hydroxide (solids)	21656-02-0b	0.15	4.49	7.5	150	mg/m3	Solids treated as insoluble.
2584	Rhodium(III) oxide (solids)	12036-35-0	0.123	3.7	6.17	123	mg/m3	
2585	Riboflavine	83-88-5	7.5	25	150	500	mg/m3	
2586	Ribonuclease T1	9026-12-4	10	30	50	250	mg/m3	No toxicity data. PNOS option used.
2587	Ricin	9009-86-3	0.025	0.075	0.25	0.25	mg/m3	New human toxicity data found. RTECS human LC50 = 0.15 ug/kg not used.
2588	Rosin core solder decomposition products; (Colophony Gum)	8050-09-7	0.1	0.3	40	40	mg/m3	SAX listing new, ignored very high human skin TClo.

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2589	Rotenone	83-79-4	5	15	25	125	mg/m3	IDLH suppressed, >> human LD lo. T-1, T-2, T-3 changed.
2590	Rubber solvent; (Naphtha (petroleum) light aliphatic)	64742-89-8	100	100	200	1100	ppm	CASRN = 8030-30-6 in SAX & HSDB. T-3 changed.
2591	Rubidium	7440-17-7	5	15	100	500	mg/m3	
2592	Rubidium bromide	7789-39-1	10	30	50	250	mg/m3	
2593	Rubidium chloride	7791-11-9	0.015	0.05	0.35	500	mg/m3	
2594	Rubidium hydroxide	1310-82-3	2.5	7.5	50	250	mg/m3	
2595	Rubidium nitrate	13126-12-0	10	30	50	500	mg/m3	
2596	Ruthenium	7440-18-8	10	30	50	250	mg/m3	
2597	Ruthenium trichloride	10049-08-8	1.5	4	30	150	mg/m3	
2598	Ruthenium(IV) oxide	12036-10-1	4	12.5	15	15	mg/m3	
2599	Safrol; (5-(2-Propenyl)-1,3-benzodioxole)	94-59-7	5	15	100	500	mg/m3	
2600	Salcomine; (bis(Salicylaldehyde)ethylenediimine cobalt(II))	14167-18-1	7.5	20	39	400	mg/m3	
2601	Salicylaldehyde	90-02-8	0.6	1.5	12.5	200	mg/m3	
2602	Salicylic acid	69-72-7	0.3	0.75	6	400	mg/m3	
2603	Salicylic acid, monoammonium salt	528-94-9	1.5	4	30	500	mg/m3	No pchem data found.

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No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2604	Salicylic acid, phenyl ester	118-55-8	4	12.5	75	500	mg/m3	
2605	Samarium	7440-19-9	10	30	50	250	mg/m3	No toxicity data found.
2606	Samarium nitrate	10361-83-8	7.5	25	150	500	mg/m3	
2607	Samarium(ii) iodide solution	32248-43-4	7.5	25	150	500	mg/m3	Not found in databases. HRR = 2 from MSDS.
2608	Samarium(III) chloride hexahydrate	13465-55-9	12.5	40	250	500	mg/m3	Not found in databases. ChemFinder MF, MW, MSDS toxicity data.
2609	Samarium(III) oxide	12060-58-1	20	60	400	500	mg/m3	Rat oral LD50 > 5 g/kg
2610	Saxitoxin	35523-89-8	0.000035	0.0001	0.0006	0.0035	mg/m3	ChemFinder has MW = 315.3314, MF = C11.H21.N7.O4
2611	Scandium	7440-20-2	10	30	50	250	mg/m3	TSCA listed, no toxicity data.
2612	Scandium oxide	12060-08-1	10	30	50	250	mg/m3	No toxicity data found, PNOS used
2613	Sec-butyllithium	598-30-1	0.4	1.25	7.5	40	ppm	TSCA listed, no toxicity data found. MSDS HHR - 3.
2614	Selenious acid	7783-00-8	0.327	0.98	1.6	1.6	mg/m3	
2615	Selenium	7782-49-2	0.2	0.6	1	1	mg/m3	
2616	Selenium dioxide	7446-08-4	0.281	0.843	1.4	1.4	mg/m3	
2617	**Selenium hexafluoride**	**7783-79-1**	0.053	**0.053**	**0.087**	**0.26**	ppm	**New interim AEGL-1, -2, -3.** All Ts changed.
2618	Selenium monosulfide	7446-34-6	0.281	0.844	12.5	15	mg/m3	
2619	Selenium oxychloride	7791-23-3	0.42	1.26	4.41	4.41	mg/m3	

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No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2620	Selenium sulfide; (Selenium(IV) disulfide (1:2))	7488-56-4	0.362	1.09	1.81	60	mg/m3	
2621	Semicarbazide hydrochloride	563-41-7	20	60	100	100	mg/m3	
2622	Sephacryl s-200, superfine	65546-95-4	10	30	50	250	mg/m3	Not found in databases.
2623	Sephacryl s-300	82785-74-8	10	30	50	250	mg/m3	Not found in databases.
2624	Sephadex G-25	9041-35-4	10	30	50	250	mg/m3	Not found in databases, PNOS option used
2625	Sepharose cl-4b	61970-08-9	10	30	50	250	mg/m3	Not found in databases. Chromatography gel.
2626	**Silane; (Silicon tetrahydride)**	**7803-62-5**	5	**100**	**130**	**270**	ppm	**New interim AEGL-1, -2, -3.** T-1, T-2, T-3 changed.
2627	Silica amorphous hydrated	7631-86-9	6	18	125	500	mg/m3	SAX name for this CASRN. T-1, T-2 changed.
2628	Silica gel	63231-67-4	6	18	30	150	mg/m3	PEL = 80/% SiO2 not used; see 7631-86-9, SCI000, and 112926-00-8 (Silica gel). All Ts changed.
2629	Silica gel dessicant	1343-98-2	6	18	30	100	mg/m3	See 7631-86-9, SCI000, and 112926-00-8 (Silica gel). T-1, T-2, T-3 changed.
2630	Silica gel, amorphous synthetic	112926-00-8	6	18	100	500	mg/m3	TLV-TWA deleted, toxicity data added. All Ts changed.
2631	Silica, amorphous fume	69012-64-2	0.3	0.9	1.5	3.5	mg/m3	Rat oral LD50 > 7.9 mg/kg. All Ts changed.
2632	Silica, amorphous fumed	112945-52-5	6	18	200	500	mg/m3	T-0, T-1 changed.
2633	Silica, crystalline-quartz; (Silicon dioxide)	14808-60-7	0.3	0.3	0.3	50	mg/m3	
2634	Silicic acid	7699-41-4	10	10	75	400	mg/m3	

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No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2635	Silicic acid, aluminum calcium sodium salt	1344-01-0	10	30	50	250	mg/m3	HSDB, TSCA listed, no toxixity data, suspected minor eye irritation ignored. . MW is a minimum.
2636	Silicic acid, sodium salt; (Sodium silicate)	1344-09-8	7.5	25	150	500	mg/m3	ChemFinder pchem data.
2637	Silicofluoric acid; (Fluorosilicic acid)	16961-83-4	3.16	9.48	15.8	50	mg/m3	
2638	Silicon	7440-21-3	15	45	75	500	mg/m3	"Y" changed to N, TLV-TWA deleted. T-1, T-2 changed.
2639	Silicon carbide	409-21-2	15	30	250	500	mg/m3	
2640	Silicon nitride	12033-89-5	10	30	50	250	mg/m3	TSCA, HC&Plisted, no toxicity data..
2641	**Silicon tetrafluoride; (Tetrafluorosilane)**	**7783-61-1**	0.05	**0.050**	**3.3**	**10**	ppm	**New interim AEGL-1, -2, -3.** All Ts changed.
2642	Silicon(II) oxide; (Silicon oxide)	10097-28-6	10	30	50	250	mg/m3	
2643	Siloprene k 1000	63394-02-5	35	100	500	500	mg/m3	No pchem data found.
2644	Siloxanes and silicones, -di-Me,-reaction products with silica; (Hydrophobic silicon dioxide, amorphous)	67762-90-7	6	15	125	500	mg/m3	SAX has CASRN = 63148-62-9, teratogen
2645	Siloxanes and silicones, methyl phenyl; (Silicone fluid, high temp)	63148-58-3	10	10	50	250	mg/m3	MW estimated and used toxicity data for Silicone Y-6607 (Siloxanes), 67762-92-9
2646	Silver	7440-22-4	0.01	0.3	0.5	10	mg/m3	
2647	Silver carbonate; (Silver(I) carbonate)	534-16-7	0.0128	0.0383	0.0639	12.8	mg/m3	
2648	Silver chloride	7783-90-6	0.0133	0.0399	0.0664	13.3	mg/m3	Solubility 6.9 g/100 mLwater @20C.

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2649	Silver cyanide	506-64-9	25.7	25.7	25.7	129	mg/m3	
2650	Silver hydroxide	12673-77-7	0.0116	0.0347	0.06	11.6	mg/m3	
2651	Silver nitrate	7761-88-8	0.0157	0.4	3	15.7	mg/m3	T-1,T-2 changed.
2652	Silver nitrite; (Silver(I) nitrite)	7783-99-5	0.0143	0.0428	0.075	14.3	mg/m3	T-2 changed.
2653	Silver oxide	20667-12-3	10	30	50	50	mg/m3	Insoluble compound.
2654	Soda lime	8006-28-8	5	5	5	25	mg/m3	Used CaO limits
2655	Sodium	7440-23-5	0.5	0.5	5	50	mg/m3	NaOH limits used
2656	Sodium acetate	127-09-3	15	40	300	500	mg/m3	
2657	Sodium acetate trihydrate; (Acetic acid, sodium salt trihydrate)	6131-90-4	15	40	300	500	mg/m3	Monohydrate CASRN 31304-44-6, SAX SEG650 (LANL pchem data differs)
2658	Sodium aluminate anhydrous; (Aluminum sodium dioxide anhydrous)	11138-49-1	8.75	8.75	8.75	8.75	mg/m3	HSDB and TSCA listed, no toxicity data found. MSDS data used. All Ts changed.
2659	Sodium aluminate; (Aluminum sodium dioxide)	1302-42-7	6.08	6.08	6.08	6.08	mg/m3	HSDB and TSCA listed, no toxicity data found. MSDS data used. All Ts changed.
2660	Sodium aluminosilicate	1344-00-9	3.5	10	150	500	mg/m3	Rat oral LD50 > 27 g/kg, LC > 140 mg/m3 not used. SAR
2661	Sodium aluminum hydride	13770-96-2	3	7.5	60	300	mg/m3	Added.
2662	Sodium aluminum silicate	73987-94-7	3.5	10	15	500	mg/m3	**SAR**
2663	Sodium antimonate; (Antimonic acid, sodium salt)	11112-10-0	1.01	3.04	5.07	101	mg/m3	TSCA lists CASRN = 15432-85-6 for Na.SbO3

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2664	Sodium antimonate; (Sodium hexahydroxoantimonate)	33908-66-6	0.792	2.37	4	79.2	mg/m3	TSCA has CASRN= 33908-66-6 for Na.Sb.(OH)6.
2665	Sodium antimonite	z-0061	0.874	2.62	4.37	87.4	mg/m3	
2666	Sodium argentate	z-0062	0.0153	0.0459	0.0764	15.3	mg/m3	
2667	Sodium arsenate	7631-89-2	0.0271	7.5	13.5	13.5	mg/m3	REL-C ignored.
2668	Sodium arsenite	7784-46-5	0.0173	0.075	0.6	8.67	mg/m3	REL-C ignored.
2669	Sodium azide	26628-22-8	0.0125	0.04	0.29	12.5	mg/m3	T-0, T-1 changed.
2670	Sodium beryllium oxide	z-0063	0.0124	0.0621	5	24.9	mg/m3	
2671	Sodium bicarbonate	144-55-8	10	30	50	500	mg/m3	
2672	Sodium bifluoride; (Sodium hydrogen fluoride)	1333-83-1	4.08	4.08	6	35	mg/m3	
2673	Sodium bis(2-methoxyethoxy) aluminum hydride	22722-98-1	15	45	75	350	mg/m3	No toxicity data found.
2674	Sodium bismuthate	12232-99-4	1.5	5	35	150	mg/m3	SAR TEELs 1.25, 4, 25, 200 mg/m3 not used
2675	Sodium bisulfate monohydrate	10034-88-5	0.75	2.5	15	75	mg/m3	
2676	Sodium bisulfate; (Sodium acid sulfate)	7681-38-1	1.25	3.5	25	125	mg/m3	
2677	Sodium bisulfite	7631-90-5	5	15	25	500	mg/m3	
2678	Sodium borate decahydrate	1303-96-4	2	6	200	500	mg/m3	RTECS, HSDB, TSCA, GOEV, HC&P, H&N and SAX used. T-2 changed.
2679	Sodium borate; (Disodium tetraborate; Borates, tetrasodium salts)	1330-43-4	2	6	6	500	mg/m3	RTECS, HSDB, TSCA, GOEV, HC&P, H&N used, SAX ignored. T-2 changed.

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2680	Sodium borohydride	16940-66-2	0.075	0.2	1.5	7.5	mg/m3	
2681	Sodium bromate	7789-38-0	0.6	1.5	12.5	60	mg/m3	
2682	Sodium bromide	7647-15-6	1.5	5	35	500	mg/m3	
2683	Sodium butyl (2-ethylhexyl)phosphate	z-0064	0.02	0.06	0.4	2	mg/m3	**SAR**
2684	Sodium butyl butylphosphonate	z-0065	0.02	0.06	0.4	2	mg/m3	**SAR**
2685	Sodium cacodylate; (Sodium dimethylarsinate)	124-65-2	1.07	3.2	40	500	mg/m3	
2686	Sodium cadminate	z-0066	0.0101	0.0604	0.101	18.1	mg/m3	
2687	Sodium carbonate	497-19-8	10	30	50	500	mg/m3	
2688	Sodium carbonate monohydrate	5968-11-6	1.5	5	35	150	mg/m3	HSDB data used.
2689	Sodium carboxymethyl cellulose; (Dowex 11)	9004-32-4	0.4	1.25	7.5	500	mg/m3	
2690	Sodium chloride	7647-14-5	15	40	300	500	mg/m3	
2691	Sodium chlorite	7758-19-2	0.75	2.5	15	75	mg/m3	RTECS MF and MW differ from other sources
2692	Sodium chromate decahydrate	13517-17-4	0.0329	0.987	20	98.7	mg/m3	
2693	Sodium chromate tetrahydrate	10034-82-9	0.0291	0.873	15	87.4	mg/m3	
2694	Sodium chromate(VI); (Disodium chromate)	7775-11-3	0.0156	0.125	0.75	46.7	mg/m3	
2695	Sodium citrate; (Monosodium citrate)	18996-35-5	10	30	50	500	mg/m3	

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2696	Sodium cobaltinitrite	13600-98-1	0.125	0.4	3	15	mg/m3	
2697	Sodium cyanide	143-33-9	5	5	5	47.1	mg/m3	
2698	Sodium cyclopentadienylide; (Cyclopentadienyl sodium)	4984-82-1	10	30	50	250	mg/m3	No toxicity data. Ignites in air.
2699	Sodium deuteroxide	14014-06-3	0.15	0.5	5	50	mg/m3	Not in databases, MSDS has no useful data.
2700	Sodium dichromate dihydrate	7789-12-0	0.0143	0.43	0.716	43	mg/m3	
2701	Sodium dichromate; (Disodium dichromate)	10588-01-9	0.0126	20	37.8	37.8	mg/m3	
2702	Sodium diethyldithiocarbamate trihydrate	20624-25-3	6	15	125	500	mg/m3	
2703	Sodium diethyldithiocarbamate; (Diethyldithiocarbamic acid, sodium salt)	148-18-5	2	6	250	500	mg/m3	
2704	Sodium dihydrogen phosphate; (Sodium phosphate monobasic, monohydrate)	10049-21-5	100	300	500	500	mg/m3	HSDB data.
2705	Sodium dithionate dihydrate	7631-94-9	10	30	50	250	mg/m3	No toxicity data; error in H&N
2706	Sodium dodecylbenzenesulfonate; (Dodecyl benzene sodium sulfonate)	25155-30-0	4	12.5	75	200	mg/m3	
2707	Sodium ethoxide	141-52-6	1.5	5	35	150	mg/m3	No toxicity data found.
2708	Sodium ferrocyanide	13601-19-9	5.44	16.3	27.2	500	mg/m3	
2709	Sodium fluoride	7681-49-4	5.53	5.53	5.53	75	mg/m3	
2710	Sodium formate	141-53-7	40	125	500	500	mg/m3	
2711	Sodium gluconate	527-07-1	0.6	2	15	75	mg/m3	

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2712	Sodium glycinate	6000-44-8	1	3.5	25	125	ppm	
2713	Sodium glycolate; (Sodium hydroxyacetate)	2836-32-0	10	30	200	750	ppm	
2714	Sodium hexamethyldisilazane; (Sodium bis(trimethylsilyl)amide)	1070-89-9	10	30	50	250	mg/m3	TSCA listed
2715	Sodium hydride	7646-69-7	10	10	10	10	mg/m3	
2716	Sodium hydrogen lead oxide	z-0067	0.06	0.06	0.06	125	mg/m3	**SAR**
2717	Sodium hydrogen metasilicate	z-0068	4	12.5	75	400	mg/m3	**SAR**
2718	Sodium hydrogen pyrophosphate	z-0069	4	12.5	20	400	mg/m3	**SAR**
2719	Sodium hydrosulfite	7775-14-6	10	30	50	250	mg/m3	
2720	**Sodium hydroxide**	**1310-73-2**	0.5	**0.5**	**5**	**50**	mg/m3	**ERPG-1, -2, -3**
2721	Sodium hypobromite	13824-96-9	10	30	50	250	mg/m3	Added. Not found in available databases. MF and MW by comparison with Chlorine hypochlorite.
2722	Sodium hypochlorite	7681-52-9	0.6	2	50	500	mg/m3	WEEL added, toxicity data updated. T-0, T-1, T-2 changed.
2723	Sodium hypochlorite pentahydrate	10022-70-5	0.075	0.2	1.5	500	mg/m3	
2724	Sodium hypophosphite	7681-53-0	6	20	125	500	mg/m3	No pchem data found.
2725	Sodium hypophosphite hydrate	123333-67-5	6	20	125	500	mg/m3	Used toxicity data for Na hypophosphite, CASRN = 7681-53-0
2726	Sodium iodate	7681-55-2	2	6	40	200	mg/m3	Deleted iodine concentration limits.

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2727	Sodium iodide	7681-82-5	0.75	2.5	15	500	mg/m3	
2728	Sodium isothiocyanate; (Thiocyanic acid, sodium salt)	540-72-7	0.25	0.75	6	100	mg/m3	
2729	Sodium lactate; (Lactic acid, monosodium salt)	72-17-3	15	40	300	500	mg/m3	
2730	Sodium lanthanate	z-0070	0.4	1.25	2.5	2.5	mg/m3	No "lanthanate" listing found SAR
2731	Sodium lauryl sulfate	151-21-3	0.35	1	6	500	mg/m3	
2732	Sodium metabisulfite	7681-57-4	5	15	25	100	mg/m3	
2733	Sodium metaborate	7775-19-1	6.18	18.5	30.9	500	mg/m3	SAX, RTECS, HSDB MF = BHO2.Na, not NaBO2.
2734	Sodium metaphosphate	10361-03-2	3.5	10	75	350	mg/m3	
2735	Sodium metasilicate nonahydrate	13517-24-3	61.1	183	306	500	mg/m3	T-0, T-1, T-2 changed.
2736	Sodium metavanadate; (Sodium vanadate)	13718-26-8	0.1	0.35	2	30	mg/m3	
2737	Sodium methylate	124-41-4	7.5	25	150	500	mg/m3	
2738	Sodium molybdate dihydrate; (Disodium molybdate dihydrate)	10102-40-6	12.6	12.6	200	200	mg/m3	
2739	Sodium monoxide; (Sodium oxide)	12401-86-4	10	10	10	10	mg/m3	
2740	Sodium nickel oxide (Liquid)	37367-09-2	2.33	2.33	2.33	23.3	mg/m3	
2741	Sodium nickelate (Liquids)	z-0073	2.94	2.94	3	29.4	mg/m3	
2742	Sodium nickelate (Solids)	z-0074	2.94	2.94	3	29.4	mg/m3	

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2743	Sodium nitrate	7631-99-4	0.4	1	7.5	100	mg/m3	
2744	Sodium nitrite	7632-00-0	0.05	0.15	1	60	mg/m3	T-0, T-1 changed.
2745	Sodium nitroferricyanide	14402-89-2	0.6	2	12.5	20	mg/m3	
2746	Sodium o-benzyl-p-chlorophenate	3184-65-4	10	30	50	250	mg/m3	
2747	Sodium orthovanadate	13721-39-6	0.182	0.25	1.82	35.4	mg/m3	
2748	Sodium oxalate	62-76-0	10	30	50	50	mg/m3	
2749	Sodium oxide; (Disodium oxide; Sodium monoxide)	1313-59-3	0.25	0.25	2.5	25	mg/m3	Added. TSCA , HC&P listed. MSDS: Amorphous powder, reacts with H2.O to form Na.OH
2750	Sodium pentachlorophenate	131-52-2	1	3.5	24	75	mg/m3	
2751	Sodium perchlorate	7601-89-0	10	30	50	500	mg/m3	
2752	Sodium perchlorate monohydrate	7791-07-3	5	15	100	500	mg/m3	
2753	Sodium permanganate	10101-50-5	0.517	7.75	12.9	500	mg/m3	HC&P data are for the trihydrate.
2754	Sodium peroxide	1313-60-6	10	10	10	10	mg/m3	
2755	Sodium perrhenate; (Rhenium(VII) sodium oxide)	13472-33-8	10	30	50	500	mg/m3	
2756	Sodium persulfate	7775-27-1	0.1	0.3	20	100	mg/m3	
2757	Sodium pertechnetate	13718-28-0	10	30	50	250	mg/m3	Radiation dose will dominate

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2758	Sodium phosphate	7632-05-5	0.75	2.5	15	75	mg/m3	Mouse LD > 100 mg/kg
2759	Sodium phosphate, dibasic	7558-79-4	60	200	500	500	mg/m3	
2760	Sodium phosphate, dibasic, dodecahydrate	10039-32-4	1.5	5	35	150	mg/m3	
2761	Sodium phosphate, dibasic, heptahydrate	7782-85-6	50	150	500	500	mg/m3	
2762	Sodium phosphate, monobasic	7558-80-7	35	100	500	500	mg/m3	
2763	Sodium phosphate, tribasic	7601-54-9	1.5	5	500	500	mg/m3	
2764	Sodium phosphate, tribasic, dodecahydrate	10101-89-0	10	30	50	500	mg/m3	
2765	Sodium phosphate, tribasic; (Sodium hexametaphosphate; Calgon)	10124-56-8	25	75	500	500	mg/m3	
2766	Sodium phosphate, tribasic; (Sodium trimetaphosphate)	7785-84-4	15	40	300	500	mg/m3	
2767	**Sodium phosphide**	**12058-85-4**	0.4	1.25	**2.0**	**3.6**	ppm	Added. **New Interim AEGL-2, -3.** TSCA listed.
2768	Sodium polyphosphate	68915-31-1	12.5	40	250	500	mg/m3	
2769	Sodium polytungstate	12141-67-2	6.77	13.5	35	150	mg/m3	TSCA listed, no toxicity or pchem data found.
2770	Sodium potassium tartrate tetrahydrate	6381-59-5	20	60	400	500	mg/m3	HC&N listed under CASRN 304-59-6, used HSDB toxicity data
2771	Sodium potassium tartrate; (Potassium sodium tartrate)	304-59-6	20	60	400	500	mg/m3	HSDB toxicity data used.
2772	Sodium p-tert-amylphenate; (4-(1,1-dimethylpropyl)phenol, sodium salt)	31366-95-7	10	30	50	250	mg/m3	

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2773	Sodium pyrophosphate decahydrate	13472-36-1	10	30	200	500	mg/m3	Corrected name. Used toxicity of disodium pyrophosphate, CASRN = 7758-16-9
2774	Sodium pyrophosphate, di-	7758-16-9	10	30	200	500	mg/m3	
2775	Sodium pyruvate; (Pyruvic acid, sodium salt)	113-24-6	10	30	50	250	mg/m3	TSCA listed, no toxicity data found.
2776	Sodium salicylate; (Salicylic acid, sodium salt)	54-21-7	40	100	500	500	mg/m3	
2777	Sodium selenate; (Disodium selenate)	13410-01-0	0.479	1.44	1.6	1.6	mg/m3	
2778	Sodium selenite	10102-18-8	0.438	1.31	2.3	3	mg/m3	
2779	Sodium silicate; (Sodium metasilicate)	6834-92-0	75	200	500	500	mg/m3	HSDB and TSCA MF = H2.O3.Si.2Na. T-0, T-1, T-2 changed.
2780	Sodium stannate	12058-66-1	3.58	10.8	17.9	179	mg/m3	As inorganic tin compound Ts = 3.5, 10.5, 30, 150 mg/m3. All Ts changed. SAR not used.
2781	Sodium stearate	822-16-2	0.15	0.5	3.5	15	mg/m3	
2782	Sodium strontium phosphate	19553-80-1	10	30	50	500	mg/m3	**SAR**
2783	Sodium succinate	150-90-3	5	15	125	600	ppm	T-2 changed.
2784	Sodium succinate, hexahydrate	6106-21-4	35	100	500	500	mg/m3	Not found in databases. MF and MW from ChemFinder
2785	Sodium sulfate, anhydrous	7757-82-6	10	30	500	500	mg/m3	
2786	Sodium sulfhydrate; (Sodium hydrosulfide)	16721-80-5	0.06	0.15	1.25	6	mg/m3	
2787	Sodium sulfide	1313-82-2	0.75	2.5	15	75	mg/m3	

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2788	Sodium sulfide nonahydrate	1313-84-4	0.2	0.6	4	20	mg/m3	HHR = 3 in MSDS.
2789	Sodium sulfite	7757-83-7	10	30	50	100	mg/m3	
2790	Sodium tartrate dihydrate	6106-24-7	5	15	100	500	mg/m3	Not found in databases. NFPA HHR = 1, MSDS pchem and rat LD50 data.
2791	Sodium tellurate	10101-83-4	0.186	0.559	0.931	150	mg/m3	
2792	Sodium tellurite	10102-20-2	0.174	0.521	7.5	25	mg/m3	
2793	Sodium tetrafluoroborate(1-)	13755-29-8	3.61	10.8	18.1	100	mg/m3	
2794	Sodium tetraphenyl borate	143-66-8	1.25	3.5	25	125	mg/m3	
2795	Sodium thiosulfate	7772-98-7	10	30	50	500	mg/m3	
2796	Sodium thiosulfate pentahydrate	10102-17-7	10	30	50	500	mg/m3	
2797	Sodium titanate	12034-34-3	10	30	50	250	mg/m3	TSCA listed, no toxicity or pchem data found.
2798	Sodium tolyltriazole; (1H-benzzotriazole, 4(or 5)-methyl-, sodium salt)	64665-57-2	2.5	7.5	50	250	mg/m3	Added. TSCA listed. Toxicity data found "www.epa.gov/HPV/pubs/summaries/benzo/c13456tp.pdf"
2799	Sodium tridecylbenzene sulfonate	26248-24-8	2	6	40	200	mg/m3	MF and MW differ in databases. No mammalian toxicity data found, HSDB probable human LD 0.5-5.0 g/kg
2800	Sodium triethylborohydride	17979-81-6	22.6	67.7	113	150	mg/m3	Not found in databases, MSDS HHR = 3.
2801	Sodium trihydrogen silicate	z-0076	10	30	50	250	mg/m3	

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2802	Sodium tripolyphosphate	7758-29-4	10	30	50	500	mg/m3	
2803	Sodium tungstate	13472-45-2	1	3	7.5	500	mg/m3	
2804	Sodium tungstate dihydrate	10213-10-2	1.79	5.38	15	75	mg/m3	
2805	Sodium uranate; (Disodium uranate hexahydrate)	66018-57-3	0.0779	0.935	3	15.6	mg/m3	
2806	Sodium uranium oxide monohydrate	13721-34-1	0.0685	0.822	2.5	13.7	mg/m3	TSCA listed, used HC&P "monohydrate" MW and MF. No toxicity data found. T-0, T-1, T-3 changed.
2807	Sodium uranyl carbonate	z-0078	0.395	0.948	3	15.8	mg/m3	
2808	Sodium zirconate; (Disodium zirconium oxide)	12201-48-8	10.9	21.8	21.8	54.6	mg/m3	
2809	Sodium-Potassium	11135-81-2	0.482	0.482	5	50	mg/m3	ERPGs for NaOH used. MW for 78wt.% K and 22 wt.% Na.
2810	Solvent naphtha, petroleum, medium aliphatic; (Mineral spirits, naphtha)	64742-88-7	25	75	500	500	mg/m3	T-0, T-1, T-2 changed.
2811	Solvent Yellow 3	97-56-3	2	6	40	500	mg/m3	
2812	**Soman; (3,3-Dimethyl-2-butyl methylphosphonofluoridate; GD)**	**96-64-0**	0.00003	**0.00018**	**0.0022**	**0.017**	ppm	**Final AEGL-1, -2, -3.** T-0 changed.
2813	Sorbitan monolaurate; (D-Glucitol, 1,4-anhydro-, 6-dodecanoate)	5959-89-7	10	30	50	250	mg/m3	TSCA, H&N listed. No toxicity or pchem data found.
2814	Sorbitan monostearate polyoxyethylene; (Ethoxylated sorbitan monostearate)	9005-67-8	0.75	2	15	500	mg/m3	No pchem data found.
2815	Sorbitan trioleate	26266-58-0	15	50	350	500	mg/m3	No pchem data found.

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Table 2: Protective Action Criteria (PAC) Rev 24
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No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2816	Sorbitan, monolaurate	1338-39-2	350	500	500	500	mg/m3	No pchem data found.
2817	Sorbitan, monooleate	1338-43-8	250	500	500	500	mg/m3	
2818	Sorbitan, monooleate polyoxyethylene; (Polyethylene sorbitan monooleate; Tween 80)	9005-65-6	0.75	2.5	15	500	mg/m3	MF and MW unknown.
2819	Sorbitan, monostearate	1338-41-6	400	500	500	500	mg/m3	
2820	Sorbitol, D-; (D-Glucitol)	50-70-4	40	125	500	500	mg/m3	Pchem data vary among sources
2821	Spiro(isobenzofuran-1(3H),9'-(9H)xanthen)-3-one, 3',6'-dihydroxy-; (Fluorescein)	2321-07-5	0.4	1.25	7.5	250	mg/m3	Density not available, assumed to be 1.0.
2822	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/m3	Duplicate deleted. MSDS pchem data.
2823	Stannic chloride; (Tin(IV) chloride; Tin(IV) tetrachloride)	7646-78-8	4.39	4.39	5	219	mg/m3	
2824	Stannous chloride; (Tin(II) chloride (1:2))	7772-99-8	3.19	9.58	50	160	mg/m3	Tin inorganic compounds, as Sn. Toxicity data updated, T-2 changed.
2825	Stannous octoate	301-10-0	0.341	1.023	15	85.3	mg/m3	TSCA listed, MSDS data.
2826	Starch dust	9005-25-8	15	30	500	500	mg/m3	Synonym deleted, conc. dep. changed from Y to N. T-2 changed.
2827	**Stibine; (Antimony hydride)**	**7803-52-3**	0.1	0.2	**1.5**	**9.6**	ppm	**New interim AEGL-2, -3. ERPG-2, -3.** T-1, T-2, T-3 changed.
2828	Stilbene	588-59-0	5	15	100	500	mg/m3	
2829	Stilbene 3; (Stilbene 420; Tinopal CBS; Disodium 4,4'-bis(2-sulfostyryl)biphenyl)	27344-41-8	0.25	0.75	6	500	mg/m3	
2830	Stoddard solvent; (Mineral spirits, 85% nonane and 15% trimethyl benzene)	8052-41-3	500	500	500	500	mg/m3	

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2831	Strontium	7440-24-6	10	30	50	250	mg/m3	
2832	Strontium carbonate	1633-05-2	20	20	20	20	mg/m3	HSDB and TSCA MF = C-H2-O3-Sr, but HSDB MW =147.63 SAR
2833	Strontium chloride	10476-85-4	7.5	20	150	500	mg/m3	"Heptahydrate removed from name, MW and MF corrected.
2834	Strontium hydroxide	18480-07-4	0.75	0.75	20	75	mg/m3	RTECS has some toxicity data. SAR
2835	Strontium nitrate	10042-76-9	10	30	250	500	mg/m3	
2836	Strontium nitrite; (Nitrous acid, strontium salt)	13470-06-9	0.04	0.1	0.75	75	mg/m3	**SAR**
2837	Strontium oxalate	814-95-9	7.5	25	60	75	mg/m3	TSCA MF = C2-H2-O4.Sr No toxicity data found SAR
2838	Strontium phosphate; (Strontium orthophosphate)	14414-90-5	10	30	500	500	mg/m3	RTECS MF = H3-O4-P.xSr, MW = 448.48, x = 4. HC&P CASRN = 7446-28-8, MW = 452.80. SAR
2839	**Strontium phosphide**	**12504-13-1**	0.2	0.6	**1.0**	**1.8**	ppm	Added. **New Interim AEGL-2, -3.**
2840	Strontium sulfate	7759-02-6	10	30	50	250	mg/m3	
2841	Strychnine	57-24-9	0.15	0.3	0.3	3	mg/m3	
2842	Strychnine sulfate (2:1)	60-41-3	1	3	5	30	mg/m3	
2843	**Styrene**	**100-42-5**	20	**20**	**130**	***1100***	ppm	**Interim AEGL-1, -2, -3.**
2844	Styrene oxide; (1,2-Epoxyethylbenzene)	96-09-3	4	12.5	50	50	ppm	
2845	Styrene-allyl alcohol copolymer	25119-62-4	10	30	50	250	mg/m3	TSCA listed, no toxicity or pchem data found. No MSDS, assumed solid.

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Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2846	Styrene-divinylbenzene resin, chloromethylated, aminated with trimethylamine; (Bio-Rad AG1-X8 anion exchange resin, formate form)	60177-39-1	10	30	50	250	mg/m3	Name changed, CASRN changed from 81133-20-2, Listed in SAX and TSCA, no toxicity data found.
2847	Styrenesulfonate), poly(sodium 4-	25704-18-1	150	500	500	500	mg/m3	Added. Rat oral LD50 > 8 g/kg
2848	Succinic acid	110-15-6	7.5	25	200	500	mg/m3	
2849	Succinic anhydride	108-30-5	0.75	2	15	500	mg/m3	
2850	Sucrose	57-50-1	15	30	50	500	mg/m3	
2851	Sucrose, diacetate hexaisobutyrate; (Sucrose acetate isobutyrate; SAIB)	126-13-6	12.5	40	300	500	mg/m3	
2852	Sulfamic acid	5329-14-6	12.5	40	250	500	mg/m3	
2853	Sulfanilamide	63-74-1	1	3	20	500	mg/m3	
2854	Sulfanilic acid	121-57-3	50	150	500	500	mg/m3	
2855	Sulfonic acids, petroleum; (Petrolatum acid sulfonate)	61789-85-3	10	30	50	250	mg/m3	
2856	Sulfonylbis-ethanol, 2,2'-	2580-77-0	1.5	5	35	150	mg/m3	Name corrected. TSCA, H&N listed, pchem data ex MSDS, no toxicity data.
2857	Sulfosalicylic acid	97-05-2	10	30	200	500	mg/m3	
2858	Sulfosalicylic acid, dihydrate, crystal	5965-83-3	7.5	20	150	500	mg/m3	Not found in databases. MSDS MP and rat LD50.
2859	Sulfotep; (TEDP)	3689-24-5	0.2	0.5	3.5	10	mg/m3	
2860	Sulfur	7704-34-9	0.125	0.4	2.5	12.5	mg/m3	

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2861	**Sulfur dioxide**	**7446-09-5**	0.2	**0.20**	**0.75**	**30**	ppm	**Interim AEGL-1, -2, -3.**
2862	Sulfur hexafluoride	2551-62-4	1000	3000	5000	5000	ppm	
2863	**Sulfur monochloride**	**10025-67-9**	0.53	**0.53**	**6.4**	**15**	ppm	**Interim AEGL-1, -2, -3.**
2864	Sulfur pentafluoride	5714-22-7	0.01	0.01	0.01	1	ppm	
2865	Sulfur tetrafluoride	7783-60-0	0.1	0.3	2.08	2.08	ppm	T-1 changed.
2866	**Sulfur trioxide**	**7446-11-9**	0.06	**0.20**	**8.7**	**160**	mg/m3	**Interim AEGL-1, -2, -3.** Separately listed 01/04/99.
2867	**Sulfuric acid**	**7664-93-9**	0.2	**0.20**	**8.7**	**160**	mg/m3	**Interim AEGL-1, -2, -3.**
2868	Sulfuric Acid-d2; (Deuterosulfuric acid)	13813-19-9	1	1	3	15	mg/m3	Added. TSCA listed, no toxicity data found, MBDS HHR = 3
2869	Sulfurous acid	7782-99-2	0.0125	0.04	0.3	1.5	mg/m3	Exists only in solution
2870	**Sulfuryl chloride**	**7791-25-5**	0.15	0.5	**3.7**	**11**	ppm	**New interim AEGL-2, -3.** All Ts changed.
2871	**Sulfuryl fluoride**	**2699-79-8**	5	10	**21**	**64**	ppm	**New interim AEGL-2, -3.** T-2, T-3 changed.
2872	Talc	14807-96-6	2	2	10	500	mg/m3	
2873	Tall oil (alkyd resin)	68333-62-0	10	30	50	250	mg/m3	
2874	Tantalum	7440-25-7	5	10	500	500	mg/m3	
2875	Tantalum carbide	12070-06-3	5.33	10.7	500	500	mg/m3	TSCA and HSDB listed, no specific toxicity data.
2876	Tantalum(V) ethoxide	6074-84-6	10	30	50	250	mg/m3	TSCA, HC&P listed, no toxicity data, assumed nonvolatile..

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2877	Tantalum(V) fluoride	7783-71-3	7.26	21.8	36.3	100	mg/m3	
2878	Tantalum(V) oxide	1314-61-0	6.11	12.2	500	500	mg/m3	
2879	Tartaric acid	87-69-4	4	12.5	75	400	mg/m3	
2880	Tartaric acid, monopotassium salt	868-14-4	150	500	500	500	mg/m3	
2881	Tartaric acid, monosodium salt	526-94-3	15	50	400	500	mg/m3	No pchem data found.
2882	Technetium(IV) oxide	12036-16-7	10	30	50	250	mg/m3	Radiation dose will dominate
2883	Technetium-99	14133-76-7					mg/m3	OHMTADS lists "Potassium pertechnetate" under this CASRN, but Chemfinder has "Iechnetium-99", agreeing with LLNL. Naturally radioactive, T1/2 22000 years, PACs eliminated.
2884	Tellurium	13494-80-9	0.1	0.3	20	25	mg/m3	
2885	Tellurium chloride	10026-07-0	0.211	0.633	15	52.8	mg/m3	
2886	Tellurium hexafluoride	7783-80-4	0.0379	0.101	0.101	1.89	ppm	
2887	Tellurium oxide; (Tellurium dioxide)	7446-07-3	0.125	0.375	5	31.3	mg/m3	
2888	Tellurous acid	10049-23-7	0.139	0.418	0.696	34.8	mg/m3	
2889	Terbium	7440-27-9	1.5	5	35	150	mg/m3	TSCA listed, no toxicity data found. SRS HHR = 3.
2890	Terbium oxide	12036-41-8	10	30	50	250	mg/m3	No toxicity data, PNOS used, no stable isotopes.

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No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2891	Terbium(III,IV) oxide	12037-01-3	10	30	50	250	mg/m3	TSCA listed, no toxicity or pchem data found. MSDS S, MP, HHR =1.
2892	Terbufos	13071-79-9	0.01	0.03	1	1	mg/m3	T-0, T-1 changed.
2893	Terephthalic acid	100-21-0	10	125	500	500	mg/m3	
2894	Terephthaloyl chloride	100-20-9	0.75	2.5	20	500	mg/m3	
2895	Terphenyl; p-	92-94-4	0.4	1.25	9	500	mg/m3	T-0, T-1 changed.
2896	Terphenyls; (Diphenylbenzene)	26140-60-3	1.5	5	9	500	mg/m3	T-0 changed.
2897	Tert-butyl alcohol; (tert-Butanol)	75-65-0	100	150	1600	1600	ppm	
2898	Tert-butyl benzoic acid, p-	98-73-7	2	6	50	200	mg/m3	
2899	Tert-butyllithium	594-19-4	1.5	5	35	150	mg/m3	Unstable, stored in pentane or similar. No toxicity data found.
2900	Tert-butylphenol, p-; (Tert-butylphenol, 4-)	98-54-4	0.5	0.5	0.75	500	mg/m3	
2901	Tert-butylpyridine, 4-	3978-81-2	10	30	50	250	mg/m3	No toxicity data found. HC&P, ChemFinder listed.
2902	Tetraamminepalladium(II) nitrate	13601-08-6	1.5	5	35	150	mg/m3	No toxicity information. LD50 based on HR
2903	Tetrabromoethane, 1,1,2,2-; (Acetylene tetrabromide)	79-27-6	0.1	6	8	8	ppm	Ignored PEL=TWA.
2904	Tetrabutyl ammonium phosphate	5574-97-0	10	30	50	250	mg/m3	Not found in databases. Duplicate with "dihydrogen" deleted.
2905	Tetrabutyl titanate; (Butyl titanate)	5593-70-4	0.75	2.5	20	100	ppm	
2906	Tetrabutylammonium fluoride; (N,N,N-Tributyl-1-butanaminium, fluoride)	429-41-4	34.4	103	172	500	mg/m3	TSCA listed, no toxicity data, HHR = 3 in MSDS.

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No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2907	Tetrabutylammonium hydroxide	2052-49-5	0.06	0.15	1.25	6	mg/m3	
2908	Tetrabutylammonium nitrate	1941-27-1	0.075	0.25	1.5	7.5	mg/m3	
2909	Tetrachloro-1,2-difluoroethane, 1,1,2,2-	76-12-0	500	500	2000	2000	ppm	T-1 changed.
2910	Tetrachlorobenzene, 1,2,3,4-	634-66-2	12.5	35	250	500	mg/m3	
2911	Tetrachlorobenzene, 1,2,4,5-	95-94-3	10	30	50	500	mg/m3	
2912	Tetrachlorodibenzofuran, 2,3,7,8-	51207-31-9	0.0006	0.002	0.002	0.002	mg/m3	
2913	Tetrachlorodibenzo-p-dioxin, 1,2,3,8-	53555-02-5	0.004	0.0125	0.075	0.4	mg/m3	
2914	Tetrachloroethane (mixed isomers)	25322-20-7	1.5	5	35	400	ppm	
2915	Tetrachloroethane, 1,1,1,2-	630-20-6	3	7.5	60	200	ppm	
2916	Tetrachloroethane, 1,1,2,2-	79-34-5	5	5	30	100	ppm	
2917	Tetrachlorohexafluorobutane, 2,2,3,3-; (FLON; CFC316)	375-34-8	0.2	0.6	4	20	ppm	
2918	**Tetrachlorosilane; (Silicon chloride)**	**10026-04-7**	0.15	**0.45**	**5.5**	**25**	ppm	**New interim AEGL-1, -2, -3. ERPG-1, -2, -3.** All Ts changed.
2919	Tetracosafluorotetradecahydro-phenanthrene; (Perfluorophenanthrene)	306-91-2	3.42	10.3	17.1	75	mg/m3	No toxicity data found. All Ts changed.
2920	Tetracyanoquinodimethane	1518-16-7	0.4	1.25	10	50	mg/m3	
2921	Tetracycline hydrochloride	64-75-5	0.75	2.5	15	500	mg/m3	
2922	Tetradecafluorohexane; (Perfluoro-n-hexane; Fluorinert FC72)	355-42-0	200	600	4000	25000	ppm	Rat LD50 > 5g/kg, rat LC lo > 40000 ppm

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No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2923	Tetradecane; (N-tetradecane)	629-59-4	0.015	0.04	0.3	***1250***	ppm	T-0, T-1, T-2 changed. See LEL Formattinng Note.
2924	Tetradecanoic acid; (Myristic acid)	544-63-8	0.35	1	7.5	35	mg/m3	
2925	Tetradecyltrimethylammonium bromide	1119-97-7	15	50	350	500	mg/m3	
2926	Tetraethyl lead	78-00-2	0.117	0.468	0.781	62.4	mg/m3	
2927	**Tetraethyl orthosilicate; (Ethyl silicate; Tetraethoxysilane)**	**78-10-4**	25	**25**	**100**	**300**	ppm	**ERPG-1, -2, -3.**
2928	Tetraethyl pyrophosphate; (TEPP)	107-49-3	0.05	0.15	1	5	mg/m3	
2929	Tetraethylammonium chloride	56-34-8	0.25	0.75	6	500	mg/m3	
2930	Tetraethylene glycol	112-60-7	125	350	500	500	mg/m3	
2931	Tetraethylene glycol diacrylate	17831-71-9	1	3.5	25	350	mg/m3	ChemFinder states "pale yellow liquid", but gives MP = 112 C, insoluble in H2O.
2932	Tetraethylenepentamine	112-57-2	5	15	350	500	mg/m3	WEEL added, toxicity data corrected. All Ts changed.
2933	Tetraethyltin; (Tetraethylstannane)	597-64-8	0.198	0.396	7	49.5	mg/m3	
2934	**Tetrafluoroethane, 1,1,1,2-; (HFC 134a)**	**811-97-2**	1000	**8000**	**13000**	**27000**	ppm	**Final AEGLs -1,-2,-3.**
2935	Tetrafluoroethane, 1,1,2,2-; (HFC 134)	359-35-3	0.805	2.41	4.02	80.5	ppm	
2936	**Tetrafluoroethylene**	**116-14-3**	2	**220**	**550**	**3300**	ppm	**New interim AEGL-1, -2, -3. ERPG-1, -2, -3** T-1, T-2, T-3 changed. See LEL formatting note.
2937	Tetrafluorohydrazine	10036-47-2	0.805	2.5	15	110	ppm	

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2938	Tetrahydro-2,5-dimethyl furan	1003-38-9	15	50	350	500	mg/m3	Used Tetrahydrodimethylfuran CASRN 1320-94-1
2939	**Tetrahydrofuran**	**109-99-9**	50	**100**	**500**	***5000***	ppm	**ERPG-1, -2, -3. PEL-TWA suppressed. T-0 changed.** See LEL Formattinng Note**.**
2940	Tetrahydrofuran-d8	1693-74-9	100	100	500	5000	ppm	Not found in databases. ChemFinder MW, MF and pchem data.
2941	Tetrahydronaphthalene, 1,2,3,4-; (Tetralin)	119-64-2	0.2	0.6	5	20	ppm	
2942	Tetrahydropyridine, 1,2,3,6-	694-05-3	2.94	8.83	15	75	ppm	HC&P, H&N listed, no toxicity data
2943	Tetramethoxypropane, 1,1,3,3-; (Malonaldehyde bis(dimethyl acetal))	102-52-3	7.5	25	150	500	mg/m3	TSCA and HC&P name inserted. No toxicity data found, assume HHR = 2..
2944	**Tetramethoxysilane; (Methyl silicate)**	**681-84-5**	0.91	0.91	**0.91**	**1.4**	ppm	**Interim AEGL-2, -3, ERPG-2, -3.** All Ts changed.
2945	Tetramethyl ammonium, tetrahydroborate(1-)	16883-45-7	0.3	1	6	35	mg/m3	
2946	Tetramethyl ethylene diamine	110-18-9	10	30	125	125	ppm	
2947	Tetramethyl lead	75-74-1	0.0968	0.581	4	51.6	mg/m3	
2948	Tetramethyl-1,3-butanediamine, N,N,N',N'-; (Tetramethyl butanediamine)	97-84-7	2	6	40	200	mg/m3	
2949	Tetramethyl-3,5-heptanedione, 2,2,6,6-; (Dipivaloylmethane)	1118-71-4	10	30	50	250	mg/m3	TSCA listed, no toxicity data found.
2950	Tetramethyl-5-decyne-4,7-diol, 2,4,7,9-	126-86-3	10	30	50	250	mg/m3	
2951	Tetramethylammonium chloride	75-57-0	0.2	0.6	4	20	mg/m3	
2952	Tetramethylammonium hydroxide	75-59-2	0.06	0.15	1.25	6	mg/m3	

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2953	Tetramethylammonium hydroxide pentahydrate	10424-65-4	0.3	0.75	6	6	mg/m3	Used toxicity data for Tetramethylammonium hydroxide, 75-59-2
2954	Tetramethylammonium silicate	53116-81-7	10	30	50	250	mg/m3	Not found in databases. MF, MW and SG ex MSDS.
2955	Tetramethylbenzene, 1,2,3,5-	527-53-7	0.15	0.5	3.5	500	mg/m3	
2956	Tetramethylbenzene, 1,2,4,5-	95-93-2	30	100	500	500	mg/m3	
2957	Tetramethylbenzidine, 3,3',5,5'-	54827-17-7	0.5	1.5	10	60	mg/m3	
2958	Tetramethylene sulfone; (Sulfolane; Tetrahydrothiophene-1,1-dioxide)	126-33-0	125	200	200	200	mg/m3	Rat LC lo > 250 mg/m3.
2959	Tetramethylsilane	75-76-3	5	15	25	125	ppm	
2960	**Tetranitromethane**	**509-14-8**	0.52	0.52	**0.52**	**1.7**	ppm	**Final AEGL -2, -3.**
2961	Tetraoxadodecane, 2,5,8,11-	112-49-2	1	3	20	100	ppm	
2962	Tetraoxatetracosan-1-ol, 3,6,9,12-; ((Laurel alcohol tri(oxyethylene) ethanol; BRIJ 30)	5274-68-0	10	30	50	250	mg/m3	No toxicity data found
2963	Tetraphenylarsonium chloride; (Tetraphenylarsenium chloride)	507-28-8	2.79	8.38	14	25	mg/m3	
2964	Tetrapotassium ethylenediaminetetraacetate; (EDTA tetrapotassium salt)	5964-35-2	4	15	75	400	mg/m3	EDTA tetrapotassium salt, MW corrected to match MF. No toxicity data SAR
2965	Tetrapropoxysilane	682-01-9	7.5	25	150	500	mg/m3	TSCA listed, no toxicity data found. MSDS pchem data, SRS HHR = 2. BP = 226 C in HC&P.
2966	Tetrapropylammonium hydroxide	4499-86-9	0.15	0.5	3.5	15	mg/m3	

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2967	Tetrapropylorthotitanate	3087-37-4	10	30	50	250	mg/m3	TSCA listed, no toxicity data. MSDS not helpful, assumed nonvolatile liquid.
2968	Tetrasodium pyrophosphate	7722-88-5	5	15	25	500	mg/m3	TLV-TWA deleted.
2969	Tetrazole, 1H-	288-94-8	10	30	50	150	mg/m3	
2970	Thallium	7440-28-0	0.1	0.3	2	15	mg/m3	
2971	Thallium chloride; (Thallium(I) chloride)	7791-12-0	0.4	1.25	2	10	mg/m3	
2972	Thallium hydroxide	12026-06-1	0.108	0.325	0.542	16.2	mg/m3	
2973	Thallium nitrate; (Thallium(I) nitrate)	10102-45-1	0.13	0.391	19.6	19.6	mg/m3	
2974	Thallium nitrite	13826-63-6	0.123	0.368	0.613	18.4	mg/m3	
2975	Thallium oxide	1314-12-1	0.104	0.312	0.52	15	mg/m3	
2976	Thallium sulfate; (Sulfuric acid, dithallium(1+) salt)	10031-59-1	0.107	0.32	2	16	mg/m3	RTECS & HSDB MW = 1528.67
2977	Thallium(I) acetate; (Acetic acid, thallium(1+) salt)	563-68-8	0.129	0.387	2.5	19.3	mg/m3	
2978	Thallium(I) carbonate (2:1)	6533-73-9	0.4	1.25	2	10	mg/m3	
2979	Thallium(I) sulfate; (Sulfuric acid, dithallium(1+) salt)	7446-18-6	0.123	0.37	0.617	1.5	mg/m3	PEL-TWA added, toxicity data updated, all Ts changed.
2980	Thallium(III) oxide	1314-32-5	0.4	1.25	2	20	mg/m3	T-0, T-1 changed.
2981	Thallium(III) perchlorate hexahydrate	15596-83-5	0.299	0.897	7.5	44.8	mg/m3	Used Thallium soluble compound limits, assumed to be "hexahydrate".
2982	Thallous malonate	2757-18-8	0.125	0.375	2	18.7	mg/m3	

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2983	Thenoyltrifluoroacetone	326-91-0	1.25	3.5	25	125	mg/m3	
2984	Thioacetamide	62-55-5	10	30	50	125	mg/m3	
2985	Thioacetic acid	507-09-5	0.006	0.02	0.125	10	ppm	
2986	Thiobis(4-chloro-6-methyl)phenol, 2,2'-	4418-66-0	0.25	0.75	1.3	1.3	mg/m3	
2987	Thiocarbazide; (Thiocarbohydrazide)	2231-57-4	20	60	100	100	mg/m3	
2988	Thiocresol, p-; (p-Toluenethiol)	106-45-6	0.75	2.5	15	75	mg/m3	
2989	Thiocyanic acid, compound with guanidine (1:1); (Guanidene thiocyanate salt)	593-84-0	1.25	3.5	25	125	mg/m3	
2990	Thiodiglycol	111-48-8	25	75	500	500	mg/m3	
2991	Thiofanox; (Dacamox)	39196-18-4	8.5	8.5	8.5	30	mg/m3	
2992	Thionazin; (Ethyl pyrazinyl phosphorothioate)	297-97-2	0.6	2	3.5	3.5	mg/m3	
2993	**Thionyl chloride**	**7719-09-7**	0.06	**0.2**	**2.4**	**14**	ppm	**New interim AEGL-2, -3. ERPG-1, -2, -3.** T-0, T-2, T-3 changed.
2994	Thiophosphoryl chloride	3982-91-0	1.25	4	25	60	mg/m3	
2995	Thiosemicarbazide	79-19-6	0.075	0.2	1.5	4	mg/m3	
2996	Thiourea	62-56-6	10	10	25	125	mg/m3	
2997	Thiram; (Tetramethylthioperoxydicarbonic diamide)	137-26-8	5	5	5	100	mg/m3	
2998	Thorium	7440-29-1	0.2	0.6	4	20	mg/m3	

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Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2999	Thorium hydroxide	13825-36-0	0.75	0.75	2.5	75	mg/m3	NLM has CASRN 12688-06-1, but no toxicity data found. **SAR.**
3000	Thorium nitrite	z-0079	0.05	0.125	0.75	75	mg/m3	**SAR**
3001	Thorium oxalate	2040-52-0	42.1	126	210	500	mg/m3	TSCA listed, MF, MP ex Hawley. Ts based on Derived Response Level (DRL) for Th, converted from uCi/cm3 to mg/m3.
3002	Thorium oxide; (Thorium dioxide)	1314-20-1	25	75	500	500	mg/m3	Rat it LD50 > 1140 mg/kg
3003	Thorium perchlorate	16045-17-3	31.4	94.3	157	500	mg/m3	Ts based on Derived Response Level (DRL) for Th, converted from uCi/cm3 to mg/m3.
3004	Thorium(IV) nitrate	13823-29-5	0.75	2	15	25	mg/m3	
3005	Thulium	7440-30-4	10	30	50	250	mg/m3	SAX has no CASRN, no toxicity data found, but lanthanides have moderate toxicu=ity.
3006	Thulium chloride	13537-18-3	15	50	350	500	mg/m3	"Heptahydrate" removed from name.
3007	Thulium oxide	12036-44-1	11.4	34.3	60	300	mg/m3	No toxicity data found, PNOS used, no stable isotopes. T-2, T-3 changed.
3008	Thymol blue; (6,6-(3H-2,1-benzoxathiol-3-ylidene)dithymol, S,S-dioxide)	76-61-9	10	30	50	250	mg/m3	No toxicity data found.
3009	Thyodene; (Amylodextrin)	9005-84-9	10	30	50	250	mg/m3	
3010	Tin	7440-31-5	2	6	100	100	mg/m3	
3011	Tin fluoroborate	13814-97-6	4.93	14.8	25	246	mg/m3	Added. TSCA listed, no pchem data found.
3012	Tin hydroxide	12026-24-3	2.57	7.72	12.9	129	mg/m3	

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No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
3013	Tin nitrate	41480-79-9	4.09	12.3	20.4	204	mg/m3	
3014	Tin nitrite	100737-27-7	3.55	10.7	17.8	178	mg/m3	
3015	Tin(II) chloride dihydrate; (Stannous chloride dihydrate)	10025-69-1	3.8	11.4	20	190	mg/m3	
3016	Tin(II) oxide	1332-29-2	2.54	7.62	12.7	60	mg/m3	Data corrected IDLH does not apply, T-3 changed.
3017	Tin(II) sulfate; (Stannous sulfate)	7488-55-3	3.62	10.9	18.1	181	mg/m3	T-3 changed.
3018	Tin(IV) isopropoxide	1184-61-8	0.35	0.7	15	87.4	mg/m3	MW and MF found, all Ts changed.
3019	Tin(IV) oxide; (Stannic oxide)	18282-10-5	2.54	7.62	12.7	500	mg/m3	IDLH does not apply, T-3 changed. Rat oral LD50 > 20 g/kg
3020	Titanium	7440-32-6	10	30	50	50	mg/m3	
3021	Titanium aluminide	39410-63-4	10	30	50	250	mg/m3	TSCA lists CASRN = 12004-78-3
3022	Titanium boride	12045-63-5	10	30	50	250	mg/m3	No toxicity data found
3023	Titanium carbide	12070-08-5	12.5	37.5	62.6	300	mg/m3	No toxicity data found.
3024	Titanium chloride	7705-07-9	0.5	1.5	10	50	mg/m3	
3025	Titanium hydride	7704-98-5	1.5	5	35	150	mg/m3	
3026	Titanium oxide; (Titanium dioxide)	13463-67-7	15	15	15	500	mg/m3	
3027	**Titanium tetrachloride**	**7550-45-0**	0.0645	**0.645**	**1.0**	**5.7**	ppm	**Interim AEGL-2, -3. ERPG-1, -2, -3.** All Ts changed.
3028	Titanium(II) oxide	12137-20-1	10	30	50	250	mg/m3	

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No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
3029	Titanium(III) fluoride	13470-08-1	4.6	12.5	75	460	mg/m3	CASRN changed from 7783-63-3.
3030	Titanium-based alloy; (Titanium compounds)	z-0081	10	30	50	250	mg/m3	
3031	**Toluene**	**108-88-3**	20	**200**	***1200***	***4500***	ppm	**Interim AEGL-1, -2, -3. T-0, T-2, T-3 changed.** See LEL Formattinng Note.
3032	Toluene diisocyanate (mixed isomers)	26471-62-5	0.25	0.75	2	2	ppm	T-2, T-3 changed.
3033	**Toluene-2,4-diisocyanate; (TDI)**	**584-84-9**	0.005	**0.020**	**0.083**	**0.51**	ppm	**Final AEGL-1, -2, -3.**
3034	Toluene-2,6-diamine; (2-Methyl-1,3-benzenediamine)	823-40-5	1.5	4	30	150	mg/m3	LD50 estimated
3035	**Toluene-2,6-diisocyanate**	**91-08-7**	0.005	**0.020**	**0.083**	**0.51**	ppm	**Final AEGL-1, -2, -3.**
3036	Toluene-d8; (Deuterated toluene)	2037-26-5	50	200	510	2900	ppm	Not found in databases, pchem data ex ChemFinder.
3037	Toluenediamine, 2,4-; (2,4-Diaminotoluene)	95-80-7	0.005	7.5	60	250	mg/m3	T-0 changed.
3038	Toluenesulfonamide, p-; (Pasam)	70-55-3	1	3	20	100	mg/m3	ChemFinder MF, MW, but irritation not used.
3039	Toluenesulfonic acid, methyl ester, p-	80-48-8	0.75	2.5	15	150	mg/m3	
3040	Toluenesulfonyl chloride, p-	98-59-9	2.5	7.5	50	250	mg/m3	
3041	Toluenesulphonic acid monohydrate, para-; (4-Methylbenzenesulphonic acid monohydrate)	6192-52-5	10	30	200	500	mg/m3	SAX CASRN = 104-15-4, MW = 172.21 without "hydrate"'
3042	Toluenethiol, m-	108-40-7	0.2	0.6	4	20	mg/m3	
3043	Toluidine, m-; (3-Methylaniline)	108-44-1	2	7.5	40	40	ppm	Synonym corrected.

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Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
3044	Toluidine, o-	95-53-4	5	5	5	50	ppm	Name corrected. Conc. dep. Changed from N to Y, T-1, T-2 changed.
3045	Toluidine, p-; (4-Methylbenzenamine)	106-49-0	2	15	125	150	mg/m3	New data inserted, T-1, T-2, T-3 changed.
3046	Toxaphene; (Chlorinated camphene)	8001-35-2	0.5	1	20	200	mg/m3	
3047	Trans-1,4-dichlorobutene; (2-Butylene dichloride)	110-57-6	0.04	0.125	0.861	7.5	ppm	
3048	Transformer oil; (Mineral oil, petroleum distillates, hydrotreated (mild) light naphthenic)	64742-53-6	5	15	100	500	mg/m3	Severe irritant rabbit skin.
3049	Tri(2-ethylhexyl) phosphate; (Tris(2-ethylhexyl)phosphate)	78-42-2	12.5	12.5	12.5	12.5	mg/m3	
3050	Triacetin; (Triacetyl glycerin)	102-76-1	12.5	35	250	500	mg/m3	
3051	Triamiphos	1031-47-6	2	6	10	10	mg/m3	
3052	Triaryl sulfonium chloride salts	109037-76-5	10	10	25	125	mg/m3	
3053	Triazine-1,3,5(2H,4H,6H)-triethanol, s-; (Onyxide 200)	4719-04-4	3	10	60	350	mg/m3	
3054	Triazofos; (Triazophos)	24017-47-8	0.5	1.5	2.8	125	mg/m3	
3055	Tribenzylamine	620-40-6	10	30	50	250	mg/m3	Not found in databases, ChemFinder MF, MW, pchem data.
3056	Tributyl citrate	77-94-1	1	3	20	75	ppm	
3057	Tributyl phosphate	126-73-8	0.459	2	15	30	ppm	
3058	Tributyl(2,4-dichlorobenzyl)phosphonium chloride	115-78-6	0.75	2	15	75	mg/m3	

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
3059	Tributyl-1-butanaminium iodide, N,N,N-; (Tetrabutylammonium iodide)	311-28-4	7.5	25	150	500	mg/m3	
3060	Tributylphosphine	998-40-3	0.35	1	7.5	40	ppm	
3061	Tributyltetradecylphosphonium chloride	81741-28-8	10	30	50	250	mg/m3	MW and MF from ChemFinder. Used PNOS default.
3062	Trichloramine; (Nitrogen chloride)	10025-85-1	0.125	0.35	2.5	25	ppm	
3063	**Trichloro(dichlorophenyl) silane; (Dichlorophenyltrichlorosilane)**	**27137-85-5**	0.2	**0.60**	**7.3**	**33**	ppm	**New interim AEGL-1, -2, -3.** All Ts changed.
3064	Trichloro-2,2,2-trifluoroethane, 1,1,1-	354-58-5	250	500	500	500	mg/m3	
3065	Trichloroacetaldehyde hydrate; (Chloral hydrate)	302-17-0	10	30	50	50	mg/m3	
3066	Trichloroacetaldehyde; (Chloral)	75-87-6	2.5	7.5	50	250	mg/m3	
3067	Trichloroacetic acid	76-03-9	1	1	2	25	ppm	
3068	Trichloroacetyl chloride	76-02-8	0.03	0.075	0.606	6	ppm	
3069	Trichlorobenzene, 1,2,3-	87-61-6	6	15	125	500	mg/m3	
3070	Trichlorobenzene, 1,2,4-	120-82-1	5	5	5	40	ppm	
3071	**Trichloroethane, 1,1,1-; (Methyl chloroform)**	**71-55-6**	230	**230**	**600**	**4200**	ppm	**Interim AEGL-1, -2, -3.**
3072	Trichloroethane, 1,1,2-	79-00-5	10	10	15	100	ppm	
3073	Trichloroethanol, 2,2,2-	115-20-8	12.5	35	250	250	mg/m3	

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
3074	**Trichloroethylene**	**79-01-6**	10	**130**	**450**	**3800**	ppm	**Interim AEGL-1, -2, -3.** PEL-TWA suppressed. T-0 changed.
3075	**Trichloroethylsilane; (Ethyl trichlorosilane)**	**115-21-9**	0.2	**0.60**	**7.3**	**33**	ppm	**Interim AEGL-1, -2, -3.**All Ts changed.
3076	Trichlorofluoromethane; (Fluorotrichloromethane, Freon 11)	75-69-4	1000	1000	1500	2000	ppm	T-0, T-1 changed.
3077	Trichlorohydroxyethyl dimethylphosphonate; ((2,2,2-Trichloro-1-hydroxyethyl)dimethylphosphonate; Trichlorphon)	52-68-6	1	3	5	500	mg/m3	
3078	Trichloroisocyanuric acid	87-90-1	30	75	500	500	mg/m3	Added.
3079	Trichloronaphthalene	1321-65-9	5	15	25	50	mg/m3	
3080	Trichloronate; (Ethyl trichlorophenylethylphosphonothioate)	327-98-0	2	6	10	300	mg/m3	
3081	Trichlorophenol, 2,3,6-	933-75-5	1.25	4	25	125	mg/m3	
3082	Trichlorophenol, 2,4,5-	95-95-4	10	30	350	350	mg/m3	
3083	Trichlorophenol, 2,4,6-	88-06-2	10	30	350	350	mg/m3	
3084	Trichlorophenoxy)propionic acid, 2-(2,4,5-; (Silvex)	93-72-1	10	30	200	250	mg/m3	
3085	Trichlorophenoxyacetic acid, 2,4,5-; (2,4,5-T)	93-76-5	10	30	50	250	mg/m3	
3086	**Trichlorophenylsilane**	**98-13-5**	0.2	**0.60**	**7.3**	**33**	ppm	**New interim AEGL-1, -2, -3.** All nTs changed.
3087	Trichloropropane, 1,2,3-	96-18-4	10	10	10	100	ppm	PEL-TWA not used.

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
3088	**Trichlorosilane**	**10025-78-2**	0.2	**0.60**	**7.3**	**33**	ppm	**New interim AEGL-1, -2, -3.** All Ts changed.
3089	Trichlorotrifluoroethane; (Freon 113; CFC113)	76-13-1	1000	1250	1500	2000	ppm	
3090	Tridecane	629-50-5	0.015	0.05	0.35	6	ppm	
3091	Tridodecylamine; (Alamine 304; N,N-didodecyl-1-dodecanamine)	102-87-4	7.5	25	150	500	mg/m3	TSCA listed. No toxicity data found. HHR = 2 in MSDS.
3092	Triethanolamine; (Trihydroxytriethylamine)	102-71-6	5	5	20	500	mg/m3	
3093	**Triethoxysilane**	**998-30-1**	0.05	**0.5**	**4**	**10**	ppm	**ERPG-1, -2, -3.** T-1, T-2, T-3 changed.
3094	Triethoxyvinylsilane	78-08-0	15	50	350	1500	ppm	
3095	Triethyl phosphate; (TEP)	78-40-0	75	200	500	500	mg/m3	T-0, T-1, T-2 changed.
3096	Triethyl phosphite	122-52-1	2	6	40	200	ppm	
3097	Triethylaluminum	97-93-8	8.46	8.46	50	250	mg/m3	
3098	Triethylamine	121-44-8	1	3	3	200	ppm	PEL-TWA not used.
3099	Triethylammonium bicarbonate buffer ph 8.5	15715-58-9	10	30	50	250	mg/m3	Not found in databases.
3100	Triethylbenzene (mixed isomers)	25340-18-5	6	15	125	600	ppm	
3101	Triethylene glycol	112-27-6	300	500	500	500	mg/m3	
3102	Triethylene glycol monomethyl ether	112-35-6	40	125	500	500	mg/m3	
3103	Triethylenetetramine	112-24-3	1	7.5	60	150	ppm	

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
3104	Triethylethanaminium hydroxide, N,N,N-; (Tetraethyl ammonium hydroxide)	77-98-5	0.35	1	7.5	35	mg/m3	
3105	Triethyloxonium tetrafluoroborate	368-39-8	6.25	18.8	31.3	500	mg/m3	TSCA listed, no toxicity or pchem data found, MSDS HHR = 3.
3106	TrietHylphosphorothioate; (Tepto)	126-68-1	0.15	0.5	3.5	15	ppm	
3107	Trifluoro-1-(2-thienyl)-1,3-butanedione, 4,4,4-, boron difluoride	22502-27-8	0.75	2.5	15	75	mg/m3	
3108	Trifluoro-4-nitro-m-cresol, alpha,alpha,alpha-; (4-Nitro-3-(trifluoromethyl)phenol)	88-30-2	0.6	1.5	12.5	60	mg/m3	
3109	Trifluoroacetaldehyde hydrate; (2,2,2-Trifluoro-1,1-ethanediol)	421-53-4	2.5	7.5	50	250	mg/m3	
3110	Trifluoroacetic acid anhydride	407-25-0	4.61	13.8	23	461	mg/m3	
3111	Trifluoroacetic acid; (Trifluoroethanoic acid)	76-05-1	10	15	15	15	ppm	
3112	Trifluoroacetyl chloride	354-32-5	1.07	3.21	50	249	ppm	
3113	Trifluoroethanol, 2,2,2-; (Trifluoroethyl alcohol)	75-89-8	0.3	7.5	60	60	ppm	
3114	Trifluoromethanesulfonic acid; (Triflic acid)	1493-13-6	0.1	0.3	2	10	ppm	No toxicity data found.
3115	Trifluoromethanesulfonic anhydride	358-23-6	1.5	5	35	150	mg/m3	Not found in databases. HHR = 3 from MSDS
3116	Trifluoromethyl iodide; (Iodotrifluoromethane)	2314-97-8	2000	4000	4000	4000	ppm	
3117	Trifluoromethyl)benzenamine, 3-(; (m-Aminobenzal fluoride)	98-16-8	0.75	2.5	4.4	150	mg/m3	
3118	Trifluralin; (2,6-Dinitro-N,N-dipropyl-4-(trifluoromethyl) benzenamine)	1582-09-8	0.025	0.075	0.6	300	mg/m3	

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
3119	Triisobutylaluminum	100-99-2	14.7	44.1	500	500	mg/m3	
3120	Trimethoxy(3,3,3-fluoropropyl) silane	429-60-7	9.57	28.7	50	500	mg/m3	TSCA listed, no toxicity or pchem data found.
3121	Trimethoxyboroxine	102-24-9	20	60	400	500	mg/m3	
3122	**Trimethoxysilane**	**2487-90-3**	0.05	**0.5**	**0.83**	**2.5**	ppm	**Interim AEGL-2. -3. ERPG-1, -2, -3.** T-2, T-3 changed**.**
3123	Trimethoxysilyl)-1-propanamine, 3-(	13822-56-5	10	30	50	250	mg/m3	TSCA, H&N listed, no toxicity data. Assumed nonvolatile.
3124	Trimethoxysilyl-1-Propanethiol, 3-; (3-Mercaptopropyltrimethoxysilane)	4420-74-0	3	7.5	60	300	mg/m3	Rat LD50 = 730uL/kg
3125	Trimethoxysilylpropyl methacrylate, 3-; (Silane A-174)	2530-85-0	6	15	125	500	mg/m3	
3126	Trimethoxysilylpropyl) ethylenediamine, N-(3-	1760-24-3	30	75	500	500	mg/m3	
3127	Trimethoxyvinylsilane; (Vinyltrimethoxysilane; Silane, trimethoxyvinyl)	2768-02-7	150	400	1250	1250	ppm	All Ts changed.
3128	Trimethyl borate	121-43-7	6	15	125	600	ppm	
3129	Trimethyl N', 2-hydroxyethyl-propylenediamine	82136-26-3	10	30	50	250	mg/m3	Added. Not found in databases.
3130	Trimethyl phosphate; (TMP)	512-56-1	5	15	60	60	ppm	
3131	Trimethyl phosphite	121-45-9	2	60	500	750	ppm	
3132	Trimethyl-1,3-pentanediol monoisobutyrate, 2,2,4-; (Texanol)	25265-77-4	25	75	500	500	mg/m3	
3133	Trimethyl-1-pentene, 2,4,4-; (Diisobutylene)	107-39-1	75	225	375	***1500***	ppm	Iso-octane not listed as synonym for this CASRN. No toxicity data found. See LEL Formattinng Note.

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No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
3134	Trimethyl-2,5,8,11-tetraoxatetradecan-13-ol, 4,7,10-	20324-34-9	10	30	50	250	mg/m3	
3135	Trimethyl-2-hexene, 4,4,5-	55702-61-9	10	30	50	250	mg/m3	
3136	Trimethyl-2-oxepanone (mixed isomers); (Hexanoic acid, 6-hydroxytrimethyl, epsilon-lactone)	64047-30-9	30	75	500	500	mg/m3	Not in ChemBank, toxicity data ex SAX. No pchem data found.
3137	Trimethylacetic acid; (Pivalic acid)	75-98-9	3.5	10	75	400	mg/m3	
3138	Trimethylacetyl chloride; (Pivaloyl chloride)	3282-30-2	0.1	0.3	2	10	ppm	No toxicity data found.
3139	Trimethylaluminum	75-24-1	5.34	16	26.7	125	mg/m3	No toxicity data found, used Al alkyl cmpnds. MSDS says very corrosive, but use of "Y" would give all Ts equal to 2 mg/m3
3140	**Trimethylamine**	**75-50-3**	5	**8.0**	**120**	**380**	ppm	**New interim AEGL-1, -2, -3. ERPG-2, -3;** odor-based ERPG-1 ignored. T-1, T-2, T-3 changed.
3141	Trimethylaniline, 2,4,6-	88-05-1	0.125	0.4	2.9	40	mg/m3	
3142	**Trimethylbenzene, 1,2,3-**	**526-73-8**	25	**140**	**360**	***1500***	ppm	**Interim AEGL-1, -2. T-1, T-2, T-3 changed.** See LEL Formattinng Note.
3143	**Trimethylbenzene, 1,2,4-; (Pseudocumene)**	**95-63-6**	25	**140**	**360**	***1500***	ppm	**Interim AEGL-1, -2. T-1, T-2 changed.** See LEL Formattinng Note.
3144	Trimethylbicyclo(3.1.1)-2-hept-2-ene, 2,6,6-; (alpha-Pinene)	80-56-8	0.00015	0.0005	0.0035	0.015	mg/m3	
3145	**Trimethylchlorosilane**	**75-77-4**	0.6	**1.8**	**32**	**130**	ppm	**Interim AEGL-1, -2, -3.**

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
3146	Trimethyldecane, 2,2,8-	62238-01-1	46.5	46.5	239	***1250***	ppm	NIOSH limits for Alkanes used. See LEL Formattinng Note.
3147	Trimethyldecane, 2,5,6-	62108-23-0	46.5	46.5	239	***1250***	ppm	NIOSH limits for Alkanes used. See LEL Formattinng Note.
3148	Trimethyldecane, 3,3,4-	49622-18-6	46.5	46.5	239	***1250***	ppm	CASRN changed from 62338-09-4, NIOSH limits for Alkanes used. See LEL Formattinng Note.
3149	Trimethylene oxide; (Oxetane)	503-30-0	0.1	0.3	2	75	mg/m3	SAX BP = 480C differs from other sources.
3150	Trimethylgallium	1445-79-0	1.5	5	35	150	mg/m3	TSCA, HC&P listed. No toxicity data found.
3151	Trimethylhexane, 2,2,5-	3522-94-9	66.8	66.8	343	***1500***	ppm	NIOSH limits for Alkanes used. See LEL Formattinng Note.
3152	Trimethyloctane	98060-52-7	54.8	54.8	282	***1000***	ppm	NIOSH limits for Alkanes used. See LEL Formattinng Note.
3153	Trimethyloctane, 2,2,6-	62016-28-8	54.8	54.8	282	***1250***	ppm	NIOSH limits for Alkanes used. See LEL Formattinng Note.
3154	Trimethyloctane, 2,3,7-	62016-34-6	54.8	54.8	282	***1250***	ppm	NIOSH limits for Alkanes used. See LEL Formattinng Note.
3155	Trimethyloctane, 2,4,6-	62016-37-9	54.8	54.8	282	***1250***	ppm	NIOSH limits for Alkanes used. See LEL Formattinng Note.
3156	Trimethyloctane, 2,6,6-	54166-32-4	54.8	54.8	282	***1250***	ppm	NIOSH limits for Alkanes used. See LEL Formattinng Note.
3157	Trimethylolpropane ethoxylate	50586-59-9	10	30	50	250	mg/m3	TSCA listed, no toxicity data. No useful data in MSDS assumed nonvolatile.
3158	Trimethylolpropane phosphite	824-11-3	0.125	0.35	2.5	6	mg/m3	
3159	Trimethylopropane methylated copolymer	71342-93-3	10	30	50	250	mg/m3	Added. TSCA listed. No toxicity or pchem data found.
3160	Trimethylphosphine	594-09-2	0.1	0.3	2	10	ppm	

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
3161	Trimethylpyridine, 2,4,6-	108-75-8	1.5	5	35	150	ppm	
3162	Trimethylsilanol	1066-40-6	0.05	0.5	2	5	ppm	**SAR**
3163	Trimethylsilylmethyllithium	1822-00-0	1.5	5	35	150	mg/m3	No toxicity data found, used HHR = 3.
3164	Trimethyltin chloride; (Chlorotrimethylstannane)	1066-45-1	0.168	0.336	20	42	mg/m3	
3165	Trimethyltriheptylamine, 6,6',6''-; (Triisooctylamine)	2757-28-0	10	15	125	500	mg/m3	
3166	Tri-n-butylamine	102-82-9	0.02	0.06	0.4	7.5	ppm	
3167	Trinitrobenzene, 1,3,5-	99-35-4	10	30	50	125	mg/m3	
3168	Trinitrochlorobenzene; (Picryl chloride)	28260-61-9	10	30	50	250	mg/m3	
3169	Trinitrophenylmethylnitramine, 2,4,6-; (Tetryl)	479-45-8	1.5	7.5	50	500	mg/m3	
3170	Trinitrotoluene, 2,4,6-	118-96-7	1.5	7.5	60	500	mg/m3	
3171	Tri-n-octylphosphine oxide; (Trioctylphophine oxide)	78-50-2	10	30	50	250	mg/m3	
3172	Trioctylamine; (N,N-Dioctyl-1-octanamine)	1116-76-3	4	12.5	75	400	mg/m3	
3173	Trioctylphosphine; (Tri-n-octylphosphine)	4731-53-7	0.5	1.5	10	50	mg/m3	No pchem data found. Mouse LC50 > 1600 mg/m3.
3174	Tri-o-tolyl phosphate; (Triorthocresyl phosphate)	78-30-8	0.1	0.3	0.6	40	ppm	
3175	Tripentaerythritol	78-24-0	10	30	50	250	mg/m3	No toxicity data found
3176	Triphenyl phosphate	115-86-6	3	9	500	500	mg/m3	

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No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
3177	Triphenyl phosphite	101-02-0	7.5	25	150	200	mg/m3	
3178	Triphenylborane	960-71-4	7.5	25	150	500	mg/m3	Severe irritant, but no toxicity data found.
3179	Triphenylethoxysilane	1516-80-9	10	30	50	250	mg/m3	TSCA, HC&P listed, no toxicity data
3180	Triphenylolmethane triglycidyl ether	66072-38-6	10	30	50	250	mg/m3	TSCA listed, no toxicity data, no MSDS, assumed solid or nonvolatile liquid.
3181	Triphenylphosphine	603-35-0	1.5	5	40	500	mg/m3	
3182	Triphenyltin chloride; (Chlorotriphenylstannane)	639-58-7	0.325	0.65	20	81.2	mg/m3	
3183	Tripotassium (2-hydroxyethyl)ethylenediaminetriacetate; (Tripotassium HEDTA)	62029-50-9	0.35	1	7.5	40	ppm	TSCA listed. Synonym changed. **SAR**
3184	Tripotassium arsenate	13464-36-3	0.0342	0.103	0.171	17.1	mg/m3	
3185	Tripropylamine	102-69-2	3.5	10	75	350	ppm	All Ts changed.
3186	Tripropylene glycol methyl ether	25498-49-1	12.5	40	250	500	mg/m3	Pchem data ex CHRIS
3187	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	
3188	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.
3189	Tris hydrochloride; (Trizma hydrochloride; Tris(hydroxymethyl) aminomethane hydrochloride)	1185-53-1	7.5	25	150	500	mg/m3	CASRN changed to 1185-53-1 (TSCA, ChemFinder and Sigma-Aldrich). Not found in databases, data ex MSDS.
3190	Tris((hydroxymethyl)methylamino)propane-1-sulphonic acid, 3-	29915-38-6	10	30	50	250	mg/m3	TSCA listed, no toxicity data. ChemFinder MW, MP

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
3191	Tris(2-aminoethyl)amine	4097-89-6	2	6	40	100	mg/m3	No pchem data found.
3192	Tris(2-chloroethyl) phosphate; (2-Chloroethanol phosphate)	115-96-8	7.5	20	150	500	mg/m3	
3193	**Tris(2-chloroethyl)amine; (Nitrogen mustard-3)**	**555-77-1**	0.001	0.003	**0.022**	**0.37**	mg/m3	**Interim AEGL-2, -3.** All Ts changed.
3194	Tris(dimethylaminomethyl)phenol, 2,4,6-	90-72-2	5	15	100	500	mg/m3	
3195	Tris-hydroxymethylaminomethane; (THAM)	77-86-1	25	75	500	500	mg/m3	
3196	Trisodium arsenate	13464-38-5	0.0277	0.0832	0.139	13.9	mg/m3	MW and MF vary in sources.
3197	Trisodium arsenate, heptahydrate; (Arsenic(V) acid, trisodium salt, heptahydrate (1:3:7))	64070-83-3	0.0446	0.134	0.223	22.3	mg/m3	
3198	Trisodium citrate	68-04-2	0.6	1.5	12.5	60	ppm	HSDB and TSCA have different MF
3199	Trisodium N-hydroxyethylethylenediaminetriacetate; (Trisodium N-(2-hydroxyethyl)ethylenediaminetriacetate)	139-89-9	4	12.5	75	400	mg/m3	Name corrected. HSDB, HC&P MW = 344.2, but RTECS, H&N MW =347.27 SAR
3200	Triton X-100; (Poly(oxyethylene)-p-tert-octylphenyl ether)	9002-93-1	15	40	300	500	mg/m3	
3201	Trypan blue	72-57-1	10	30	50	500	mg/m3	
3202	Trypsin; (Parenzyme; Chymotrypsin inhibitor)	9002-07-7	0.025	0.075	0.6	30	mg/m3	
3203	Trypsinogen	9002-08-8	7.5	25	150	500	mg/m3	Not found in databases, MSDS HHR = 2.
3204	Tungsten	7440-33-7	5	10	10	500	mg/m3	

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
3205	Tungsten boride	12007-09-9	5.29	10.6	26.5	125	mg/m3	TSCA, HC&P listed, no toxicity data.
3206	Tungsten carbide	12070-12-1	5.33	10.7	10.7	10.7	mg/m3	No toxicity data found.
3207	Tungsten hexafluoride	7783-82-6	1.62	4.86	75	405	mg/m3	
3208	Tungsten trioxide; (Tungsten(VI) oxide)	1314-35-8	6.31	12.6	400	400	mg/m3	
3209	Tungsten(IV) chloride; (Tungsten tetrachloride)	13470-13-8	10	30	50	250	mg/m3	No toxicity or pchem data found.
3210	Tungsten(IV) oxide	12036-22-5	5.87	11.7	11.7	11.7	mg/m3	
3211	Tungstic acid	7783-03-1	6.8	13.6	13.6	13.6	mg/m3	No toxicity data found. Insoluble W compound.
3212	Tungstosilicic acid	11130-20-4	6.52	13	13	13	mg/m3	TSCA listed, no pchem data.
3213	Turpentine	8006-64-2	20	20	20	***800***	ppm	PEL-TWA suppressed. T-0, T-1, T-2 changed. See LEL Formattinng Note.
3214	Undecane	1120-21-4	0.35	1	6	35	ppm	
3215	Undecanone, 2-; (Methyl nonyl ketone)	112-12-9	0.2	0.6	4	300	ppm	
3216	Uranine; (Fluorescein sodium)	518-47-8	12.5	40	250	500	mg/m3	
3217	Uranium	7440-61-1	0.05	0.6	2	10	mg/m3	
3218	**Uranium hexafluoride; (Uranium fluoride)**	**7783-81-5**	0.0739	**3.6**	**9.6**	**36**	mg/m3	**Final AEGL-1, -2, -3.**
3219	Uranium hydride; (Uranium(III) hydride)	13598-56-6	0.0506	0.608	2	10.1	mg/m3	
3220	**Uranium oxide; (Triuranium octaoxide)**	**1344-59-8**	0.059	0.707	**10**	**50**	mg/m3	**ERPG-2, -3**

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
3221	Uranium telluride	12138-37-3	0.104	1.24	4	20.7	mg/m3	Name and CASRN changed. Insoluble U compound.
3222	Uranium telluride A	12138-37-3a	0.0857	1.03	3.5	17.1	mg/m3	Treated as insoluble.
3223	**Uranium trioxide**	**1344-58-7**	0.0601	0.5	**0.5**	**3**	mg/m3	Added. **New ERPG-2, -3.**
3224	**Uranium(IV) oxide; (Uranium dioxide)**	**1344-57-6**	0.0567	0.681	**10**	**30**	mg/m3	**ERPG-2, -3.**
3225	Uranium: insoluble compounds	z-0083	0.05	0.6	2	10	mg/m3	Insoluble U compound. T-0 changed.
3226	Uranium: soluble compounds	z-0084	0.05	0.6	2	10	mg/m3	
3227	Uranyl acetate; (Uranium oxyacetate)	541-09-3	0.0891	1.07	3.5	17.8	mg/m3	
3228	Uranyl fluoride; (Uranium oxyfluoride)	13536-84-0	0.0647	0.776	2.5	12.9	mg/m3	
3229	Uranyl hydroxide	13470-18-3a	0.0639	0.766	2.5	12.8	mg/m3	
3230	Uranyl hydroxide (liquids)	13470-18-3b	0.0639	0.766	2.5	12.8	mg/m3	
3231	Uranyl nitrate (solid); (Bis(nitrato-O,O')dioxouranium)	10102-06-4	0.0828	0.993	3	16.6	mg/m3	
3232	Uranyl nitrate (yellow salt)	36478-76-9	0.0828	0.993	0.993	16.6	mg/m3	
3233	Uranyl nitrate hexahydrate	13520-83-7	0.105	1.27	1.27	21.1	mg/m3	
3234	Uranyl nitrite (liquids)	z-0087	0.076	0.913	3	15.2	mg/m3	
3235	Urea	57-13-6	10	10	15	500	mg/m3	
3236	Urea peroxide; (Urea hydrogen peroxide)	124-43-6	1.5	5	35	150	mg/m3	Added.

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
3237	Urea, substituted; (Urea, N,N''-(4-methyl-1,3-phenylene)bis[N',N'-dimethyl-)	17526-94-2	1.5	5	35	150	mg/m3	Added. TSCA listed, no toxicity data found. Based on MSDS NFPA HHR = 2.
3238	Urethane; (Carbamic acid, ethyl ester; Ethyl carbamate)	51-79-6	500	500	500	500	mg/m3	
3239	Valeric acid	109-52-4	30	75	500	500	mg/m3	
3240	Valinomycin	2001-95-8	0.5	1.5	2.5	2.5	mg/m3	
3241	Vanadium	7440-62-2	0.05	0.15	0.5	35	mg/m3	
3242	Vanadium pentoxide; (Vanadium(V) oxide)	1314-62-1	0.05	0.075	0.5	35	mg/m3	T-1 changed.
3243	Vanadium sulfate	16785-81-2	0.5	1.5	10	50	mg/m3	
3244	Vanadium tetrachloride	7632-51-1	0.6	2	12.5	60	mg/m3	
3245	Vanadium trioxide	1314-34-7	0.0412	0.124	50	50	mg/m3	
3246	Vanadium(II) sulfate heptahydrate	36907-42-3	0.05	0.05	0.05	0.25	mg/m3	
3247	Vanadium(III) sulfate	13701-70-7	0.107	0.107	0.107	0.5	mg/m3	
3248	Vanadium, trichlorooxo	7727-18-6	0.075	0.25	1.5	7.5	ppm	
3249	Vanadyl sulfate pentahydrate; (Vanadium(IV) sulfate oxide hydrate)	12439-96-2	0.0696	3	20	200	mg/m3	
3250	Vanadyl sulfate; (Oxysulfatovanadium)	27774-13-6	0.05	0.075	0.5	35	mg/m3	T-1 changed.
3251	Vanilin	121-33-5	5	15	125	500	mg/m3	

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Table 2: Protective Action Criteria (PAC) Rev 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
3252	Vegetable oil	68956-68-3	15	30	50	500	mg/m3	
3253	Veratraldehyde	120-14-9	7.5	25	150	500	mg/m3	
3254	Vermiculite, exfoliated	1318-00-9	10	30	50	250	mg/m3	No toxicity data found
3255	Vinyl 2-chloroethylsulfide; (2-Chloroethylthio ethene)	81142-02-1	0.15	0.4	3	15	mg/m3	Not found in databases.
3256	**Vinyl acetate**	**108-05-4**	6.7	**6.7**	**180**	**610**	ppm	**Interim AEGL-1, -2, -3. ERPG-1, -2, -3** All Ts changed.
3257	Vinyl acetate-vinyl chloride copolymer; (Acetic acid, vinyl ester, polymer with chloroethylene)	9003-22-9	35	100	500	500	mg/m3	
3258	Vinyl acrylic resin; (Vinyl acetate, polymer with n-butyl acrylate)	25067-01-0	10	30	50	250	mg/m3	
3259	Vinyl bromide	593-60-2	5	15	40	50	ppm	
3260	**Vinyl chloride**	**75-01-4**	1	**250**	**1200**	***4800***	ppm	**Interim AEGL-1, -2, -3.** See LEL Formattinng Note.
3261	Vinyl ethyl ether; (Ethoxy ethene)	109-92-2	15	50	350	***1500***	ppm	See LEL Formattinng Note.
3262	Vinyl fluoride	75-02-5	1	75	500	***75000***	ppm	See LEL Formattinng Note.
3263	Vinyl terminated dimethylsiloxane-diphenylsiloxane copolymer	68951-96-2	75	250	500	500	mg/m3	TSCA listed, no toxicity data found, HHR = 0 in MSDS.
3264	**Vinyl trichlorosilane**	**75-94-5**	0.2	**0.60**	**7.3**	**33**	ppm	**New interim AEGL-1, -2, -3. ERPG-1, -2, -3.** All Ts changed.
3265	Vinyl-2-pyrrolidinone, 1-	88-12-0	0.05	5	40	75	ppm	
3266	Vinylbenzylchloride; (4-Vinylbenzyl chloride)	1592-20-7	1.5	5	35	150	mg/m3	TSCA listed, no toxicity data found, MSDS HHR = 3.

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Table 2: Protective Action Criteria (PAC) Rev 24
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No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
3267	Vinylcyclohexene, 4-; (Cyclohexenylethylene)	100-40-3	0.1	0.3	***3500***	***3500***	ppm	Added. See LEL Formattinng Note.
3268	Vinylformamide, N-	13162-05-5	5	15	100	500	mg/m3	TSCA lisyed. MSDS pchem and toxicity information used..
3269	**Vinylidene chloride; (1,1-dichloroethylene)**	**75-35-4**	5	75	**500**	**1000**	ppm	**ERPG-2, -3.**
3270	Vinylidene fluoride; (1,1-Difluoroethene)	75-38-7	500	500	500	***12500***	ppm	See LEL Formattinng Note.
3271	Vinylmagnesium bromide	1826-67-1	1.5	5	35	150	mg/m3	TSCA listed, no toxicity data found. MSDS HHR - 3.
3272	Vinylpyrrolidone/vinyl acetate copolymer	25086-89-9	100	250	250	250	mg/m3	Rat oral LD50 > 650 mg/kg
3273	Virginia refrigeration oil 150 and 300; (Mineral oil, petroleum distillates, hydrotreated (mild) heavy naphthenic)	64742-52-5	15	40	300	500	mg/m3	Rat oral LD50 > 5 g/kg
3274	Warfarin	81-81-2	0.1	0.3	20	100	mg/m3	T-3 changed.
3275	Warfarin sodium	129-06-6	1.5	5	9	9	mg/m3	
3276	Xenon	7440-63-3	65000	65000	230000	400000	ppm	Simple asphyxiant.
3277	Xylene, m-	108-38-3	100	150	200	900	ppm	
3278	Xylene, o-	95-47-6	100	150	200	***900***	ppm	See LEL Formattinng Note.
3279	Xylene, p-	106-42-3	100	150	200	900	ppm	
3280	**Xylenes**	**1330-20-7**	100	**130**	***920***	***2500***	ppm	**Interim AEGL-1, -2, -3.** See LEL Formattinng Note.
3281	Xylenol orange tetrasodium salt	3618-43-7	10	30	50	250	mg/m3	

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No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
3282	Xylidine	1300-73-8	5	5	5	50	ppm	
3283	Xylidine, 2,6-	87-62-7	6	20	125	350	mg/m3	
3284	Xylidine, o-; (2,3-Xylidine)	87-59-2	0.5	10	10	50	ppm	
3285	Xylylene dichloride	28347-13-9	0.4	1.25	2	75	mg/m3	
3286	Yeast extract	8013-01-2	15	50	400	500	mg/m3	
3287	Ytterbium fluoride	13760-80-0	10.1	10.1	10.1	10.1	mg/m3	
3288	Ytterbium oxide	1314-37-0	10	30	50	250	mg/m3	
3289	Yttrium	7440-65-5	1	3	5	500	mg/m3	T-3 changed.
3290	Yttrium chloride, hexahydrate	10025-94-2	3.41	10.2	500	500	mg/m3	T-2 changed.
3291	Yttrium oxide	11130-29-3	1.18	3.54	150	500	mg/m3	"Y" changed to "N" for mild irritant, T-2 changed.
3292	Yttrium trioxide	1314-36-9	1.27	3.81	40	500	mg/m3	
3293	Zeolites, CaA	68989-20-8	7.5	25	150	500	mg/m3	MSDS HHR = 2. Molecular xieve information deleted.
3294	Zeolites, KA	68989-21-9	10	30	50	250	mg/m3	MSDS CASRN = 308080-99-1, no useful data found. Molecular xieve information deleted.
3295	Zeolites, NaA	68989-22-0	6	15	125	500	mg/m3	Molecular xieve information deleted.
3296	Zeolites, NaX	68989-23-1	10	30	50	250	mg/m3	TSCA listed, no toxicity or pchem data found. Molecular xieve information deleted.

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No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
3297	Zinc	7440-66-6	10	30	50	200	mg/m3	
3298	Zinc acetate	557-34-6	0.3	0.75	6	500	mg/m3	
3299	Zinc acetate dihydrate	5970-45-6	25	75	350	350	mg/m3	
3300	Zinc bromide	7699-45-8	10	30	50	200	mg/m3	
3301	Zinc carbonate	3486-35-9	5	15	100	500	mg/m3	
3302	Zinc carbonate hydroxide	5263-02-5	10	30	50	250	mg/m3	Not found in databases
3303	Zinc chloride	7646-85-7	1	2	50	50	mg/m3	All Ts changed.
3304	Zinc cyanide	557-21-1	22.6	22.6	22.6	113	mg/m3	
3305	Zinc fluoride	7783-49-5	6.8	6.8	20	100	mg/m3	
3306	Zinc hydroxide	20427-58-1	0.6	0.6	1.5	60	mg/m3	**SAR**
3307	Zinc nitrate	7779-88-6	10	10	10	10	mg/m3	
3308	Zinc nitrate hexahydrate	10196-18-6	5	15	100	500	mg/m3	
3309	Zinc nitrite	10102-02-0	0.035	0.075	0.6	60	mg/m3	**SAR**
3310	Zinc oxide	1314-13-2	2	10	15	500	mg/m3	PEL-TWA suppressed. T-0, T-1 changed.
3311	Zinc perchlorate	13637-61-1	10	30	50	250	mg/m3	TSCA listed, no toxicity or pchem data found.
3312	Zinc phenolsulfonate; (Zinc p-hydroxybenzenesulfonate)	127-82-2	0.6	2	15	500	mg/m3	T-2 changed.

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No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
3313	Zinc phosphate (3:2)	7779-90-0	2	6	50	250	mg/m3	SAX, RTECS, TSCA all have H3 in MF, but this would give MW = 392.13
3314	**Zinc phosphide**	**1314-84-7**	0.05	0.15	**1.0**	**1.8**	ppm	**Interim AEGL-2, -3.** All Ts changed.
3315	Zinc stearate	557-05-1	15	30	50	150	mg/m3	
3316	Zinc sulfate	7733-02-0	0.15	0.5	3.5	500	mg/m3	
3317	Zinc sulfate heptahydrate (1:1:7)	7446-20-0	100	200	200	200	mg/m3	
3318	Zirconium boride	12045-64-6	6.19	12.4	61.9	61.9	mg/m3	T-2, T-3 changed.
3319	Zirconium carbide	12070-14-3	6.32	12.6	12.6	63.2	mg/m3	No toxicity data found. T-3 changed.
3320	Zirconium chloride	10026-11-6	12.8	25.5	25.5	128	mg/m3	T-3 changed.
3321	Zirconium chloride oxide octahydrate	13520-92-8	17.7	35.3	35.3	177	mg/m3	T-3 changed.
3322	Zirconium compounds (as Zr)	7440-67-7	5	10	10	50	mg/m3	T-3 changed.
3323	Zirconium fluoride	7783-64-4	9.17	18.3	18.3	91.7	mg/m3	T-3 changed.
3324	Zirconium hydride	7704-99-6	5.11	10.2	51.1	51.1	mg/m3	T-2, T-3 changed.
3325	Zirconium hydroxide	14475-63-9	8.73	17.5	17.5	87.3	mg/m3	T-3 changed.
3326	Zirconium nitrate	13746-89-9	18.6	37.2	37.2	186	mg/m3	T-3 changed.
3327	Zirconium nitride	25658-42-8	5.77	11.5	11.5	57.7	mg/m3	TSCA, HC&P listed, no toxicity data. T-3 changed.
3328	Zirconium nitrite	z-0088	7.52	15	15	75.2	mg/m3	T-3 changed.

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
3329	Zirconium oxide	1314-23-4	6.75	13.5	13.5	67.5	mg/m3	T-3 changed.
3330	Zirconium oxynitrate hydrate	14985-18-3	13.7	27.4	27.4	137	mg/m3	T-3 changed.
3331	Zirconium phosphide	12037-80-8	8.4	16.8	16.8	84	mg/m3	HC&P listed. TSCA CASRN = 12037-72-8, MW, MF differ. T-3 changed.
3332	Zirconium potassium fluoride; (Potassium fluorozirconate)	16923-95-8	37.3	149	150	500	mg/m3	T-3 changed.
3333	Zirconium silane	z-0089	8.08	16.2	16.2	80.8	mg/m3	T-3 changed.
3334	Zirconium silicate; (Zirconium silicon oxide; Zircon))	10101-52-7	10.3	20.5	51.3	103	mg/m3	HC&P has "zirconium orthosilicate", MW = 183.308, MF = Zr SiO4. T-3 changed.
3335	Zirconium sulfate tetrahydrate	7446-31-3	19.5	39	39	195	mg/m3	CASRN changed from 14644-61-2 per LLNL. Both CHRIS and ChemFinder list under removed CASRN. T-3 changed.
3336	Zirconyl chloride; (Zirconium oxychloride)	7699-43-6	9.76	19.5	97.6	97.6	mg/m3	
3337	Zirconyl nitrate; (Bis(nitrato-O)oxozirconium)	13826-66-9	12.7	25.3	25.3	127	mg/m3	T-3 changed.
3338	Zonyl fsn fluorosurfactant	65545-80-4	60	150	500	500	mg/m3	
3339	zzAcrylic latex	z-0090	10	30	50	250	mg/m3	
3340	zzAlumination 301	z-0091	10	30	50	250	mg/m3	
3341	zzHydranal coulomat / AG	z-0092	10	30	50	250	mg/m3	
3342	zzHydrocarbon polymer	z-0093	10	30	50	250	mg/m3	

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 24
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs, or TEELs					Comments and changes from PAC Rev 23
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
3343	zzHydrocount(R), LSC cocktail	z-0094	10	30	50	250	mg/m3	
3344	zzIconol(R)	z-0095	10	30	50	250	mg/m3	
3345	zzMachine coolant 1	z-0096	10	30	50	250	mg/m3	
3346	zzMonophase- S	z-0097	10	30	50	250	mg/m3	
3347	zzMornar	z-0098	10	30	50	250	mg/m3	
3348	zzOpti-Fluor; (Alkyl benzene blend, 3% tributylphophate)	z-0099	7.5	25	37.5	250	mg/m3	Mixture ex MSDS used
3349	zzPaint solvent	z-0100	10	10	10	10	mg/m3	
3350	zzPropanol (-2) aluminum derivative	z-0101	2	6	10	50	mg/m3	
3351	zzScintillation cocktail, Ultima Gold XR	z-0102	0.15	0.5	3	15	mg/m3	Used MSDS mixture components
3352	zzSicapent	z-0103	10	30	50	250	mg/m3	
3353	zzSynthetic resins	z-0104	10	30	50	250	mg/m3	
3354	zzTotal sequestrant reagent #5	z-0105	35	40	100	500	mg/m3	Used MSDS mixture components
3355	zzTrifluoroacetyl)-N,0,0,0-tetrakis((TMS)norepinephrine, N-(	z-0106	0.04	0.125	0.75	7.5	mg/m3	Toxicity data for "Norepinephrine", CASRN = 51-41-2, used.
3356	zzWaste oil	z-0107	10	30	50	250	mg/m3	

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.