

Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)  
PAC Rev 23 – August 2007

Table 2 presents an alphabetical listing of the chemicals in the PAC data set and provides Chemical Abstracts Service Registry Numbers (CAS RNs)<sup>1</sup>, PAC data, and technical comments focusing on changes in the PACs since the previous version of the PAC/TEEL data set (Rev 21).

PACs are provided for TEEL-0 (i.e., PAC-0), PAC-1, PAC-2, and PAC-3. Values are usually given in parts per million (ppm) for gases and volatile liquids and in milligrams per cubic meter (mg/m<sup>3</sup>) 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 Compound	The common name of the chemical compound.
CAS RN	The Chemical Abstracts 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-3 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 <sup>3</sup> ).
Comments	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," often 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 and CAS RN displayed in a **bolded and larger** font.
- Chemicals for which ERPGs are available, but no AEGLs, have their chemical name and CAS RN displayed in a **bolded** font.
- Chemicals for which TEELs are available, but no AEGLs or ERPGs, have their chemical name and CAS RN 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).

<sup>1</sup> Visit <http://info.cas.org/> for information on the Chemical Abstracts Service and CAS RNs.

- ***Bold, underlined, pink and italicized*** font indicates a PAC between 50% and up to 100% of the LEL ( $50\% \text{ LEL} \leq \text{PAC} < 100\% \text{ LEL}$ ).
- ***Bold, double underlined, red and italicized*** font indicates a PAC at 100% or more of the LEL ( $\text{PAC} \geq 100\% \text{ LEL}$ ).

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

<b>Definitions of AEGLs, ERPGs, and TEELs</b>	
<b>AEGLs</b>	
<b>AEGL-1</b>	The airborne concentration (expressed as parts per million or milligrams per cubic meter (ppm or mg/m <sup>3</sup> ) of a substance above which it is predicted that the general population, including susceptible individuals, could experience notable discomfort, irritation, or certain asymptomatic nonsensory effects. However, the effects are not disabling and are transient and reversible upon cessation of exposure.
<b>AEGL-2</b>	The airborne concentration (expressed as ppm or mg/m <sup>3</sup> ) of a substance above which it is predicted that the general population, including susceptible individuals, could experience irreversible or other serious, long-lasting adverse health effects or an impaired ability to escape.
<b>AEGL-3</b>	The airborne concentration (expressed as ppm or mg/m <sup>3</sup> ) of a substance above which it is predicted that the general population, including susceptible individuals, could experience life-threatening health effects or death.
<b>ERPGs</b>	
<b>ERPG-1</b>	The maximum airborne concentration below which it is believed that nearly all individuals could be exposed for up to 1 hr without experiencing other than mild transient adverse health effects or perceiving a clearly defined, objectionable odor.
<b>ERPG-2</b>	The maximum airborne concentration below which it is believed that nearly all individuals could be exposed for up to 1 hr without experiencing or developing irreversible or other serious health effects or symptoms which could impair an individual's ability to take protective action.
<b>ERPG-3</b>	The maximum airborne concentration below which it is believed that nearly all individuals could be exposed for up to 1 hour without experiencing or developing life-threatening health effects.
<b>TEELs</b>	
<b>TEEL-0</b>	The threshold concentration below which most people will experience no appreciable risk of health effects.
<b>TEEL-1</b>	The maximum concentration in air below which it is believed nearly all individuals could be exposed without experiencing other than mild transient adverse health effects or perceiving a clearly defined objectionable odor.
<b>TEEL-2</b>	The maximum concentration in air below which it is believed nearly all individuals could be exposed without experiencing or developing irreversible or other serious health effects or symptoms that could impair their abilities to take protective action.
<b>TEEL-3</b>	The maximum concentration in air below which it is believed nearly all individuals could be exposed without experiencing or developing life-threatening health effects.

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](http://www.hss.energy.gov/HealthSafety/WSHP/chem_safety/teel.html).

Table 4 might be of particular interest because it presents information on the source of the PACs.

Additional technical information on PACs and TEELs, contact information, and links to other sources of information is accessible on the Subcommittee for Consequence Assessment and Protective Action (SCAPA) webpages at: <http://orise.orau.gov/emi/scapa/teels.htm>.

Chemicals without an identified CAS RN number are issued an identification number, preceded by the letter "z," for purposes of the PAC data set. The same "z" number that was used in "TEELs Rev 21" has been retained, where applicable.

**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1	Acacia; (Gum Arabic)	9000-01-5	200	500	500	500	mg/m <sup>3</sup>	
2	Acenaphthene	83-32-9	0.4	1.25	7.5	250	mg/m <sup>3</sup>	Synonym deleted. See LEL formatting note.
3	Acenaphthylene	208-96-8	0.06	0.2	1.25	500	mg/m <sup>3</sup>	
4	<b>Acetaldehyde</b>	<b>75-07-0</b>	25	45	270	840	ppm	<b>Interim AEGL-1, -2, -3. See LEL formatting note.</b>
5	Acetamide	60-35-5	25	75	500	500	mg/m <sup>3</sup>	See LEL formatting note.
6	Acetanilide	103-84-4	0.4	1	7.5	50	mg/m <sup>3</sup>	
7	<b>Acetic acid</b>	<b>64-19-7</b>	5	5	35	250	ppm	<b>ERPG-1, -2, -3 See LEL formatting note.</b>
8	Acetic acid ethenyl ester, polymer with 1,1-bis(ethenyloxy) butane and ethenol	27360-07-2	10	30	50	250	mg/m <sup>3</sup>	Name changed. TSCA listed, no toxicity or pchem data found.
9	Acetic acid, 2-propenyl ester	591-87-7	0.5	1.5	10	50	ppm	See LEL formatting note.
10	Acetic acid, lithium salt	546-89-4	12.5	35	250	500	mg/m <sup>3</sup>	

AEGLs = bold 12pt font / ERPGs (but not AEGLs) = bold 10pt font / Bold green italics: 10% LEL ≤ PAC < 50%;  
bold underlined pink italics: 50% LEL ≤ PAC < 100% LEL; bold double underlined red italics: PAC ≥ LEL.

**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
11	Acetic acid, manganese(2+) salt, tetrahydrate	6156-78-1	0.892	2.68	22.3	500	mg/m <sup>3</sup>	Input data changed, T-0, T-1, T-2 changed.
12	Acetic acid, manganese(II) salt (2:1)	638-38-0	0.63	9.45	15.7	500	mg/m <sup>3</sup>	Input data changed, T-0, T-1 changed.
13	Acetic Anhydride	108-24-7	5	5	5	200	ppm	ERPGs in process. See LEL formatting note.
14	<b>Acetone</b>	<b>67-64-1</b>	200	200	<i>3200</i>	<i>5700</i>	ppm	<b>Interim AEGL-1, -2, -3. See LEL formatting note.</b>
15	Acetone thiosemicarbazide	1752-30-3	20	60	100	100	mg/m <sup>3</sup>	
16	Acetone-d6	666-52-4	200	200	<i>3200</i>	<i>5700</i>	ppm	Added. Pchem data ex ChemFinder.
17	<b>Acetonitrile</b>	<b>75-05-8</b>	13	13	320	670	ppm	<b>Interim AEGL-1, -2, -3. See LEL formatting note.</b>
18	Acetonitrile-d3	2206-26-0	40	60	60	500	ppm	Added. ChemFinder MW and MF. Used Acetonitrile (75-05-8) data.
19	Acetophenone	98-86-2	10	30	50	350	mg/m <sup>3</sup>	See LEL formatting note.
20	Acetoxytriphenylstannane	900-95-8	0.345	0.689	20	50	mg/m <sup>3</sup>	T-1 changed.

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
21	Acetyl bromide	506-96-7	0.2	0.6	4	20	ppm	
22	Acetyl carbinol; (Acetol (1); 1-Hydroxy-2-propanone)	116-09-6	7.5	25	200	500	mg/m <sup>3</sup>	Added.
23	Acetyl chloride	75-36-5	0.0025	0.0075	0.05	125	ppm	
24	Acetyl triethyl citrate	77-89-4	6	20	125	500	mg/m <sup>3</sup>	Added.
25	Acetylaminofluorene, 2-	53-96-3	0.25	0.75	6	30	mg/m <sup>3</sup>	
26	Acetylaminofluorenone, 2-	3096-50-2	0.75	2.5	15	75	mg/m <sup>3</sup>	
27	Acetylene	74-86-2	<i>2500</i>	<i>2500</i>	<i>2500</i>	<i>6000</i>	ppm	See LEL formatting note.
28	<b>Acrolein</b>	<b>107-02-8</b>	0.030	0.030	0.1	1.4	ppm	<b>Interim AEGL-1, -2, -3. See LEL formatting note.</b>
29	Acrylamide	79-06-1	0.3	7.5	60	60	mg/m <sup>3</sup>	T-1 changed.
30	<b>Acrylic acid</b>	<b>79-10-7</b>	1.5	1.5	46	180	ppm	<b>Interim AEGL-1, -2, -3. See LEL formatting note.</b>

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
31	Acrylic acid polymers; (Acrylic polymer or resin)	9003-01-4	10	30	200	500	mg/m <sup>3</sup>	
32	<b>Acrylonitrile</b>	<b>107-13-1</b>	2	4.6	57	100	ppm	<b>AEGL-1, -2, -3 See LEL formatting note.</b>
33	Acrylyl chloride; (Acryloyl chloride)	814-68-6	0.05	0.15	0.243	10	ppm	T-2 rounding change.
34	Adipic acid	124-04-9	5	5	5	125	mg/m <sup>3</sup>	See LEL formatting note.
35	Adipic acid-TDI	68609-57-4	10	30	50	250	mg/m <sup>3</sup>	Added. TSCA listed, no toxicity or pchem data found. See Adipic acid, 124-04-9
36	Adiponitrile	111-69-3	2	3.85	3.85	150	ppm	ERPGs considered, not developed. T-2 changed. See LEL formatting note.
37	Aerosol, A-102; (Poly(oxy-1,2-ethanediyl), alpha-(3-carboxy-1-oxo-3-sulfopropyl)-omega (dodecyloxy0-, -disodium salt)	39354-45-5	125	400	500	500	mg/m <sup>3</sup>	Added. No pchem data found, assumed density = 1.00.
38	Agar	9002-18-0	500	500	500	500	mg/m <sup>3</sup>	
39	Agarose, type VII (low gelling temperature)	9012-36-6	10	30	50	250	mg/m <sup>3</sup>	
40	Alamine 336	68814-95-9	20	60	500	500	mg/m <sup>3</sup>	No pchem data found.

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41	Albumin (bovine)	9048-46-8	150	500	500	500	mg/m <sup>3</sup>	RTECS, MERCK list Albumin (human) rather than "bovine"
42	Alcohol oxidase	9073-63-6	10	30	50	250	mg/m <sup>3</sup>	TSCA listed, no toxicity or pchem data found.
43	Alcohols, C6-C12 (N.O.S.)	68603-15-6	10	30	50	250	mg/m <sup>3</sup>	
44	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	0.75	10	25	mg/m <sup>3</sup>	Names switched, synonym corrected.
45	Aldrithiol-2: (2,2'-Dithiodipyridene)	2127-03-9	10	30	50	250	mg/m <sup>3</sup>	Synonym, MW, MF, MP in ChemFinder.
46	Aliquat 336; (Adogen 464; Quaternary ammonium compounds, tri(C8-10)-alkylmethyl-, chlorides)	63393-96-4	30	75	500	500	mg/m <sup>3</sup>	
47	Alizarin; (1,2-Dihydroxyanthraquinone; Turkey red oil)	72-48-0	1.25	4	25	125	mg/m <sup>3</sup>	Added.
48	Alizarine Red S, Monohydrate; (Sodium alizarin-3-sulfonate)	130-22-3	0.6	1.5	12.5	60	mg/m <sup>3</sup>	Added.
49	Alkanes, C4-12-	68333-81-3	300	385	385	<i>2000</i>	ppm	Based on octane, MW estimated. T-2 changed. See LEL formatting note.
50	Alkenyl dimethylethyl ammonium bromide; (Aliphatic hydrocarbon)	z-0108	2	6	40	200	mg/m <sup>3</sup>	Incorrect CAS RN deleted (failed check sum)

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
51	Alkyd resins and rosin	66070-62-0	10	30	50	250	mg/m <sup>3</sup>	
52	Alkyl benzenes (C8-C9)	z-0109	10	30	50	250	mg/m <sup>3</sup>	Invalid CAS RN deleted (fails check-sum)
53	Alkyl dimethylbenzyl ammonium chloride; (Benzalkonium chloride)	8001-54-5	7.5	20	100	100	mg/m <sup>3</sup>	
54	Alkylamines (includes nitrogen mustard, triethylmelamine, etc.)	63231-48-1	10	30	50	250	mg/m <sup>3</sup>	
55	Alkylbenzene (C10-C16)	68648-87-3	10	30	50	500	mg/m <sup>3</sup>	
56	Allene; (1,2-Propadiene)	463-49-0	40	125	750	<i>4000</i>	ppm	See LEL formatting note.
57	<b>Allyl alcohol</b>	<b>107-18-6</b>	2	2.1	4.2	20	ppm	<b>Interim AEGL-1, -2, -3. See LEL formatting note.</b>
58	Allyl Bromide; (3-Bromopropene)	106-95-6	4	12.5	75	400	ppm	See LEL formatting note.
59	<b>Allyl chloride</b>	<b>107-05-1</b>	1	3	40	300	ppm	<b>ERPG-1, -2, -3. See LEL formatting note.</b>
60	Allyl chlorocarbonate	2937-50-0	0.01	0.03	0.15	0.15	ppm	Added.

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
61	Allyl isothiocyanate; (Mustard oil)	57-06-7	0.35	1	2.5	12.5	ppm	Added. Ignored rat 14 day oral TD lo.
62	<b>Allylamine</b>	<b>107-11-9</b>	0.125	0.42	3.3	18	ppm	<b>Interim AEGL-1, -2, -3. See LEL formatting note.</b>
63	Allylmagnesium bromide	1730-25-2	10	30	50	250	mg/m <sup>3</sup>	Added. Not found in databases.
64	Alpha,alpha,4-trimethyl-3-cyclohexene-1-methanol, (S)-; (alpha-Terpineol)	10482-56-1	125	350	500	500	mg/m <sup>3</sup>	HSDB & TSCA listed, SAX, RTECS, TSCA CAS RN = 98-55-5, RTECS & HC&P CAS RN = 2438-12-2
65	Alphahydroxybenzeneacetic acid, (+-)-; (DL-mandelic acid)	611-72-3	15	50	350	500	mg/m <sup>3</sup>	TSCA listed, no toxicity data. Used normal Mandelic acid (CAS 90-64-2) data.
66	Aluminon	569-58-4	0.0004	0.001	0.0075	500	mg/m <sup>3</sup>	
67	Aluminum (powder)	7429-90-5	15	30	50	250	mg/m <sup>3</sup>	
68	Aluminum acetate, basic	7360-44-3	8.9	26.7	44.5	200	mg/m <sup>3</sup>	Rounding procedure changed T-0, T-1, T-2. TSCA listed, TSCA MF, MW calculated, no toxicity data.
69	Aluminum carbide	1299-86-1	2.67	8	13.3	60	mg/m <sup>3</sup>	Rounding procedure changed T-0, T-1, T-2.
70	Aluminum chloride	7446-70-0	9.88	9.88	60	500	mg/m <sup>3</sup>	T-2 changed.

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71	Aluminum chloride hexahydrate	7784-13-6	17.9	25	150	500	mg/m <sup>3</sup>	T-0, T-2 changed.
72	Aluminum fluoride	7784-18-1	6.22	6.22	7.5	40	mg/m <sup>3</sup>	T-0, T-1 changed.
73	Aluminum grey; (Chromium compound; Acid black 60)	12218-95-0	8.44	25.3	42.2	422	mg/m <sup>3</sup>	T-0, T-2, T-3 changed. MF ex TSCA, no AI in MF
74	Aluminum hexafluorosilicate	17099-70-6	3.51	10.5	17.6	351	mg/m <sup>3</sup>	Added.
75	Aluminum hydroxide	21645-51-2	1.5	4.5	125	125	mg/m <sup>3</sup>	
76	Aluminum oxide hydrate	1333-84-2	15	30	50	250	mg/m <sup>3</sup>	Found MF in NIH Chemical Information SIS, MW calculated for x = 2(H <sub>2</sub> O)
77	Aluminum oxide; (Alumina)	1344-28-1	15	15	15	25	mg/m <sup>3</sup>	
78	Aluminum phosphate; (Phosphoric acid, aluminum salt (1:1), solution)	7784-30-7	9.04	27.12	500	500	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
79	Aluminum phosphate; (Phosphoric acid, aluminum salt)	13530-50-2	23.8	71.4	119	500	mg/m <sup>3</sup>	T-0, T-1, T-2 changed. TSCA listed, no toxicity data.
80	Aluminum phosphide	20859-73-8	10.7	10.7	20	20	mg/m <sup>3</sup>	T-0, T-1 changed.

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
81	Aluminum potassium sulfate	10043-67-1	19.1	57.4	95.7	100	mg/m <sup>3</sup>	All Ts changed.
82	Aluminum potassium sulfate, dodecahydrate	7784-24-9	35.2	105	176	500	mg/m <sup>3</sup>	T-1, T-2 changed.
83	Aluminum sulfate	10043-01-3	12.7	38	63.4	500	mg/m <sup>3</sup>	T-1, T-2 changed.
84	Aluminum yellow 4A; (Chromium compound; Acid yellow 39)	10343-58-5	4.77	14.3	25	239	mg/m <sup>3</sup>	All Ts changed. MF ex TSCA, no AI in MF
85	Aluminum(III) isopropylate	555-31-7	15.1	45.4	75.7	500	mg/m <sup>3</sup>	T-1 changed. SAX, RTECS, H&N, ChemFinder MF used, differs from HSDB and TSCA
86	Aluminum(III) nitrate (1:3)	13473-90-0	15.8	47.4	350	500	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
87	Aluminum(III) nitrate nonahydrate (1:3:9)	7784-27-2	27.8	27.8	150	500	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
88	Aluminum(III) silicate (2:1); (Kyanite; Oil-dri)	1302-76-7	6.01	18	75	400	mg/m <sup>3</sup>	T-1, T-2, T-3 changed.
89	Amberlite IR-120(PLUS) ion-exchange resin	78922-04-0	10	30	50	200	mg/m <sup>3</sup>	ChemFinder listed, no toxicity data found, used Amberlite-LA-1, CAS RN = 12642-13-6. MSDS has CAS RN 39389-20-3
90	Amberlite IR-120plus ion-exchange resin, sodium form; (Cation exchange resin)	9002-23-7	7.5	25	150	500	mg/m <sup>3</sup>	Not found in databases, but several RTECS Amberlite IR-120 compound listings. MSDS vp and HHR. ChemFinder listed.

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

**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
91	Amberlite IRA-400(CI); (Amberlite IRA-400, ion-exchange resin)	9002-24-8	10	30	50	250	mg/m <sup>3</sup>	Not found in databases. MSDS pchem data.
92	Amberlite IRA-400(CL); (Ion exchange resin)	122560-63-8	10	30	50	250	mg/m <sup>3</sup>	Not found in databases. MSDS has no useful information.
93	Amberlite MB-1 ion-exchange resin; (Amberlite MB-150)	100915-96-6	10	30	50	200	mg/m <sup>3</sup>	Not listed, used Amberlite-LA-1, CAS RN = 12642-13-6; synonym from MSDS name.
94	Amberlite XAD-16, -7, -4 resin	104219-63-8	10	30	50	200	mg/m <sup>3</sup>	Not listed, used Amberlite-LA-1, CAS RN = 12642-13-6. Assumed to be mixture of resins, each with MSDSs.
95	Amberlite XAD-2 resin, purified	9060-05-3	10	30	50	200	mg/m <sup>3</sup>	Not listed, used Amberlite-LA-1, CAS RN = 12642-13-6
96	Amberlite ZAD-16; (Nonionic polymeric absorbent)	9003-69-4	7.5	25	150	500	mg/m <sup>3</sup>	TSCA listed, no toxicity data. MSDS HHR = 2.
97	Amberlite; (Amberlite XAD7HP)	37380-43-1	10	30	50	200	mg/m <sup>3</sup>	H&N listed, no toxicity data found, used Amberlite-LA-1, CAS RN = 12642-13-6. ChemFinder SG. Synonym from MSDS.
98	Amberlyst 15 ion-exchange resin	9037-24-5	10	30	50	250	mg/m <sup>3</sup>	Not found in databases; MSDS has CAS RN 39389-20-3
99	Amino-1,3-naphthalenedisulfonic acid, 7-	86-65-7	3.5	10	75	400	mg/m <sup>3</sup>	All Ts changed.
100	Amino-1-propanol, 3-	156-87-6	0.015	0.04	0.3	500	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
101	Amino-2-(hydroxymethyl)-1,3-propanediol, 2-, acetate salt; (Trizma acetate)	6850-28-8	25	75	500	500	mg/m <sup>3</sup>	TSCA listed, MSDS toxicity data.
102	Amino-2-methyl-2-propanol, 1-	2854-16-2	10	30	200	500	mg/m <sup>3</sup>	
103	Amino-4,6-dinitrotoluene, 2-	35572-78-2	6	15	125	500	mg/m <sup>3</sup>	
104	Aminoacetaldehyde diethyl acetal (2,2-diethoxyethylamine)	645-36-3	7.5	25	150	500	mg/m <sup>3</sup>	Added. Tsca listed, no toxicity data found, HHR assumed = 2.
105	Aminoacetaldehyde dimethyl acetal (2,2-dimethoxyethylamine)	22483-09-6	10	30	50	250	mg/m <sup>3</sup>	Added. Although MSDS states irritant, "N" assumed.
106	Aminoanthraquinone, 2-	117-79-3	7.5	25	150	500	mg/m <sup>3</sup>	
107	Aminobenzoic acid, p-	150-13-0	5	15	100	500	mg/m <sup>3</sup>	WEEL-TWA added, T-0, T-1 changed.
108	Aminobutyl)diethoxymethylsilane, (4-	3037-72-7	2	6	45	45	mg/m <sup>3</sup>	
109	Aminodiphenyl, p-	92-67-1	0.5	1.5	10	200	mg/m <sup>3</sup>	
110	Aminoethoxy)ethanol, 2(2-	929-06-6	12.5	35	250	500	mg/m <sup>3</sup>	Added.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
111	Aminoethylethanolamine	111-41-1	12.5	35	250	500	mg/m <sup>3</sup>	Added.
112	Aminoethylpiperazine, n-	140-31-8	2.5	7.5	50	500	mg/m <sup>3</sup>	
113	Aminoheptane, 3-; (3-Heptylamine)	28292-42-4	0.06	0.15	1.25	6	ppm	
114	Aminoiminomethyl)urea sulfate(2:1), (	591-01-5	10	30	50	250	mg/m <sup>3</sup>	TSCA listed, no toxicity data.
115	Aminophenol, 2-; (Aminophenol, o-)	95-55-6	0.5	1.5	10	500	mg/m <sup>3</sup>	
116	Aminophenol, M-	591-27-5	1	3	20	125	mg/m <sup>3</sup>	
117	Aminopropiophenone, 4-	70-69-9	1	3.5	5.6	75	mg/m <sup>3</sup>	
118	Aminopropylmethyldiethoxysilane, 3-	3179-76-8	15	50	400	500	mg/m <sup>3</sup>	Added. MSDS pchem data.
119	Aminopropyltriethoxysilane; (3-(Triethoxysilyl)-1-propanamine)	919-30-2	6	15	125	500	mg/m <sup>3</sup>	HC&P has BP = 119 C. Duplicate deleted.
120	Aminopterin; (Aminopteridine)	54-62-6	5	15	25	25	mg/m <sup>3</sup>	.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
121	Aminopyrazine	5049-61-6	0.5	1.5	2.5	5	ppm	<b>SAR</b>
122	Aminopyridine, 4-; (4-Pyridinamine)	504-24-5	4	12.5	20	20	mg/m <sup>3</sup>	.
123	Amiton oxalate	3734-97-2	0.6	1.5	3	3	mg/m <sup>3</sup>	
124	Amiton; (O,O-Diethyl-S-(2-diethylaminoethyl) thiophosphate)	78-53-5	0.6	2	3.3	3.3	mg/m <sup>3</sup>	
125	Amitrole	61-82-5	0.2	0.6	125	500	mg/m <sup>3</sup>	T-2 changed.
126	<b>Ammonia</b>	<b>7664-41-7</b>	25	30	160	1100	ppm	<b>Interim AEGL-1, -2, -3. See LEL formatting note.</b>
127	Ammonium acetate	631-61-8	2.5	7.5	50	250	mg/m <sup>3</sup>	
128	Ammonium aluminum fluoride; (Triammonium hexafluoroaluminate)	7784-19-2	4.28	4.28	4.28	15	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
129	Ammonium benzoate	1863-63-4	3.5	10	75	350	mg/m <sup>3</sup>	
130	Ammonium bicarbonate	1066-33-7	2	6	40	200	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
131	Ammonium bisulfate; (Ammonium hydrogen sulfate)	7803-63-6	0.025	0.075	0.5	2.5	mg/m <sup>3</sup>	
132	Ammonium bisulfite; (Ammonium hydrogen sulfite)	10192-30-0	10	10	10	10	mg/m <sup>3</sup>	
133	Ammonium bromide	12124-97-9	10	35	200	500	mg/m <sup>3</sup>	
134	Ammonium carbamate; (Carbamic acid, ammonium salt)	1111-78-0	0.3	1	6	35	mg/m <sup>3</sup>	
135	Ammonium carbonate	506-87-6	0.75	2.5	15	75	mg/m <sup>3</sup>	
136	Ammonium chloride	12125-02-9	10	20	500	500	mg/m <sup>3</sup>	T-2 changed.
137	Ammonium chromate	7788-98-9	0.0146	0.438	7.5	43.9	mg/m <sup>3</sup>	New OSHS PEL-TWA. All Ts changed.
138	Ammonium citrate	7632-50-0	10	10	30	150	mg/m <sup>3</sup>	
139	Ammonium citrate tribasic	3458-72-8	10	30	50	250	mg/m <sup>3</sup>	Not found in databases. MSDS pchem data.
140	Ammonium citrate, dibasic	3012-65-5	10	10	10	10	mg/m <sup>3</sup>	.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
141	Ammonium dichromate	7789-09-5	0.0121	0.363	7.5	36.4	mg/m <sup>3</sup>	All T-s changed. New OSHS PEL-TWA.
142	Ammonium dihydrogen phosphate; (Monoammonium phosphate)	7722-76-1	15	50	350	500	mg/m <sup>3</sup>	
143	Ammonium ferrous sulfate hexahydrate	7783-85-9	3.19	9.56	15.9	500	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
144	Ammonium fluoborate	13826-83-0	3.45	3.45	6	20	mg/m <sup>3</sup>	
145	Ammonium fluoride	12125-01-8	4.88	4.88	4.88	12.5	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
146	Ammonium formate	540-69-2	10	30	50	500	mg/m <sup>3</sup>	
147	Ammonium hexachlorohydrate (III)	z-0001	10	30	50	250	mg/m <sup>3</sup>	
148	Ammonium hexafluorosilicate; (Ammonium silicofluoride)	16919-19-0	3.91	11.7	20	30	mg/m <sup>3</sup>	T-0, T-1 changed.
149	Ammonium hydrogen fluoride; (Ammonium bifluoride)	1341-49-7	3.75	3.75	3.75	3.75	mg/m <sup>3</sup>	All Ts changed.
150	Ammonium hydrogen oxalate hemihydrate	37541-72-3	7.5	25	150	500	mg/m <sup>3</sup>	Not found in databases. ChemFinder MF, MW. MSDS HHR = 2.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
151	Ammonium hydroxide	1336-21-6	2	6	40	100	ppm	Human LC lo added. T-0, T-1 changed.
152	Ammonium iodide	12027-06-4	4	12.5	75	400	mg/m <sup>3</sup>	All Ts changed.
153	Ammonium lactate	52003-58-4	10	30	50	250	mg/m <sup>3</sup>	
154	Ammonium lignin sulfonate	8061-53-8	10	30	50	250	mg/m <sup>3</sup>	
155	Ammonium molybdate(VI) tetrahydrate	12054-85-2	60.7	60.7	60.7	150	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
156	Ammonium molybdophosphate	12026-66-3	8.15	24.4	40.7	200	mg/m <sup>3</sup>	T-0, T-1 changed.
157	Ammonium nickel sulfate	15699-18-0	4.89	4.89	5	48.9	mg/m <sup>3</sup>	All Ts changed.
158	Ammonium nitrate	6484-52-2	10	10	10	500	mg/m <sup>3</sup>	
159	Ammonium oxalate monohydrate	5972-73-6	1.5	4	30	150	mg/m <sup>3</sup>	This CAS RN in H&N, with MW = 125.08
160	Ammonium oxalate; (Ammonium oxalate hydrate)	6009-70-7	1.5	4	30	150	mg/m <sup>3</sup>	This name & CAS RN in CHRIS & OHMTADS

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
161	Ammonium oxalate; (Ethanedioic acid, diammonium salt)	1113-38-8	0.15	0.5	4	20	mg/m <sup>3</sup>	
162	Ammonium pentaborate	12007-89-5	10	30	50	250	mg/m <sup>3</sup>	
163	Ammonium perchlorate	7790-98-9	5	15	100	500	mg/m <sup>3</sup>	
164	Ammonium permanganate	13446-10-1	0.2	3	5	500	mg/m <sup>3</sup>	
165	Ammonium persulfate	7727-54-0	0.1	0.3	20	100	mg/m <sup>3</sup>	T-2 changed.
166	Ammonium phosphate dibasic	7783-28-0	10	30	50	250	mg/m <sup>3</sup>	
167	Ammonium picrate	131-74-8	10	30	50	250	mg/m <sup>3</sup>	
168	Ammonium polyacrylate	9003-03-6	10	30	50	250	mg/m <sup>3</sup>	TSCA listed, no toxicity data, no MSDS, assumed solid.
169	Ammonium sulfamate	7773-06-0	10	30	50	500	mg/m <sup>3</sup>	
170	Ammonium sulfate	7783-20-2	40	125	500	500	mg/m <sup>3</sup>	

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
171	Ammonium sulfide	12135-76-1	3.5	10	15	15	ppm	See LEL formatting note.
172	Ammonium sulfite	10196-04-0	10	10	10	10	mg/m <sup>3</sup>	No useful data found.
173	Ammonium sulfite monohydrate	7783-11-1	10	30	50	250	mg/m <sup>3</sup>	HC&P listed, no toxicity data found
174	Ammonium tartrate	14307-43-8	10	10	10	10	mg/m <sup>3</sup>	No useful data found.
175	Ammonium tartrate; (Diammonium tartrate)	3164-29-2	1.5	5	40	200	mg/m <sup>3</sup>	
176	Ammonium tetraethyl bromide; (Tetraethyl ammonium bromide)	71-91-0	1.25	4	30	40	mg/m <sup>3</sup>	Synonym added.
177	Ammonium tetramethyl bromide; (Tetramethylammonium bromide)	64-20-0	0.2	0.6	4	20	mg/m <sup>3</sup>	
178	Ammonium thiocyanate	1762-95-4	12.5	35	200	200	mg/m <sup>3</sup>	
179	Ammonium thiosulfate; (Ammonium hyposulfite)	7783-18-8	10	30	50	500	mg/m <sup>3</sup>	
180	Ammonium tungstate(VI)	11120-25-5	1.38	4.14	6.9	6.9	mg/m <sup>3</sup>	TSCA, HC&P listed., no toxicity data. All Ts changed.

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
181	Ammonium vanadate; (Ammonium vanadium oxide; Ammonium metavanadate)	7803-55-6	0.0322	0.0965	0.322	3.5	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
182	Ammonium, hexadecyltrimethyl-, bromide; (Hexadecyltrimethylammonium bromide)	57-09-0	0.035	0.1	0.75	150	mg/m <sup>3</sup>	
183	Ammonium-d4 deuterioxide	13550-49-7	10	29	177	883	ppm	Added. Not found in databases. MW and MF ex ChemFinder.
184	Amosite	12172-73-5	0.005	0.05	40	200	mg/m <sup>3</sup>	T-1, T-2, T-3 changed.
185	Amphetamine; (Benzedrine)	300-62-9	4	12.5	20	20	mg/m <sup>3</sup>	
186	Amyl acetate	628-63-7	100	100	100	1000	ppm	See LEL formatting note.
187	Amyl alcohol; (1-Pentanol)	71-41-0	100	100	100	100	ppm	WEEL added, T-3 changed. See LEL formatting note.
188	Amyl methyl ether, tert-; (TAME)	994-05-8	20	125	125	125	ppm	T-1, T-2 changed.
189	Amylamine, n-; (1-Pentylamine)	110-58-7	0.3	0.75	6	30	mg/m <sup>3</sup>	See LEL formatting note.
190	Anhydrone; (Magnesium perchlorate)	10034-81-8	6	15	125	500	mg/m <sup>3</sup>	T-0, T-2 changed.

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
191	<b>Aniline</b>	<b>62-53-3</b>	5	8	12	20	ppm	<b>Final AEGL-1, -2, -3. See LEL formatting note.</b>
192	Anisidine, o-	90-04-0	0.5	1.5	2.5	50	mg/m <sup>3</sup>	
193	Anisidine, p-	104-94-9	0.5	1.5	2.5	50	mg/m <sup>3</sup>	
194	Anisole; (Anisole anhydrous; Methoxybenzene)	100-66-3	4	12.5	75	<b>400</b>	mg/m <sup>3</sup>	See LEL formatting note.
195	Anthracene	120-12-7	1.5	4	30	150	mg/m <sup>3</sup>	T-1, T-2, T-3 changed. See LEL formatting note.
196	Anthracenedisulfonic acid,4,8-diamino-9,10-dihydro-1,5-dihydroxy-9,10-dioxo, disodium salt, 2,6-; (Acid Blue 45; Alizarine Blue)	2861-02-1	12.5	35	250	500	mg/m <sup>3</sup>	Name corrected.
197	Anthranilic acid	118-92-3	4	12.5	75	500	mg/m <sup>3</sup>	
198	Anthraquinone	84-65-1	10	30	50	500	mg/m <sup>3</sup>	
199	Antimony	7440-36-0	0.5	1.5	50	50	mg/m <sup>3</sup>	T-2 changed.
200	Antimony oxide	1309-64-4	0.599	1.8	4	59.9	mg/m <sup>3</sup>	T-1, T-2 changed.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
201	Antimony pentachloride	7647-18-9	1.23	3.68	6.14	123	mg/m <sup>3</sup>	T-1, T-2 changed.
202	Antimony pentafluoride	7783-70-2	0.89	0.89	2.7	89	mg/m <sup>3</sup>	T-0, T-1, T-3 changed.
203	Antimony pentasulfide	1315-04-4	0.829	2.49	4.15	82.9	mg/m <sup>3</sup>	T-0, T-2, T-3 changed.
204	Antimony potassium tartrate trihydrate	28300-74-5	1.31	3.92	6.53	131	mg/m <sup>3</sup>	T-0, T-2, T-3 changed.
205	Antimony trichloride	10025-91-9	0.937	0.937	0.937	93.7	mg/m <sup>3</sup>	All Ts changed.
206	Antimony trifluoride	7783-56-4	0.734	0.734	4	73.4	mg/m <sup>3</sup>	All Ts changed.
207	Antimycin A	1397-94-0	0.35	1	1.8	12.5	mg/m <sup>3</sup>	
208	Antioxidant G-16 (most toxic antiox)	61373-87-3	10	30	50	125	mg/m <sup>3</sup>	
209	Aqua regia (75% hydrochloric + 25% nitric acid)	8007-56-5	0.85	1.6	18	94.5	ppm	0.75 HCl+0.25 HNO <sub>3</sub> , MW from H&N, all Ts changed.
210	Arginine, L-	74-79-3	10	30	50	250	mg/m <sup>3</sup>	No useful data found.

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

**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
211	Argon	7440-37-1a	65000	65000	230000	400000	ppm	Simple asphyxiant, all Ts changed.
212	Argon, cryogenic	7440-37-1b	65000	65000	230000	400000	ppm	As Ar, simple asphyxiant, all Ts changed.
213	Aromatic hydrocarbon solvents; (High flash naphtha distillates; Solvent naphtha (petroleum), light aromatic)	64742-95-6	500	750	750	750	ppm	See LEL formatting note.
214	Aromatic isocyanate mixture "SWD 305A"	z-0111	1.25	4	20	125	mg/m <sup>3</sup>	Used 52% 9016-87-9, 5% 26447-40-5, 42% 101-68-8, 1% 103-71-9.
215	Arsenic (& inorganic compounds)	1327-53-3	0.01	0.03	5	5	mg/m <sup>3</sup>	
216	Arsenic (organic compounds as As)	7440-38-2	0.5	1.5	2.5	350	mg/m <sup>3</sup>	
217	Arsenic acid	1327-52-2	0.0189	0.0568	3	55	mg/m <sup>3</sup>	All Ts changed.
218	Arsenic acid; (o-arsenic acid)	7778-39-4	0.0189	0.4	3	9.5	mg/m <sup>3</sup>	All Ts changed.
219	Arsenic pentoxide	1303-28-2	0.0153	1	7.67	7.67	mg/m <sup>3</sup>	T-1, T-2, T-3 changed.
220	Arsenious acid	13464-58-9	0.0168	0.2	1.4	8.41	mg/m <sup>3</sup>	T-0, T-1, T-3 changed.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
221	Arsenous trichloride	7784-34-1	0.0242	0.0726	1.35	12.1	ppm	T-0, T-1, T-3 changed.
222	<b>Arsine</b>	<b>7784-42-1</b>	0.05	0.05	0.17	0.5	ppm	<b>Final AEGL-2, -3. See LEL formatting note.</b>
223	Asbestos	1332-21-4	0.005	0.5	0.5	2.5	mg/m <sup>3</sup>	
224	Asbestos (Chrysotile)	12001-29-5	0.005	0.5	50	250	mg/m <sup>3</sup>	
225	Ascaridole	512-85-6	0.75	2.5	20	75	mg/m <sup>3</sup>	
226	Ascarite; (Asbestos, 1332-21-4)	81133-20-2	0.005	0.5	0.5	2.5	mg/m <sup>3</sup>	Assumed not to be "Ascarite-2", which does not contain asbestos.
227	Ascorbic acid	50-81-7	60	200	500	500	mg/m <sup>3</sup>	
228	Asphalt; (Bitumen)	8052-42-4a	0.5	0.75	5	25	mg/m <sup>3</sup>	See also Petroleum asphalt, SAX PCR500
229	Auramine; (4.4'-(Imidocarbonyl)bis(n,n-dimethylamine) monohydrochloride)	2465-27-2	2.5	7.5	60	60	mg/m <sup>3</sup>	Synonym changed. PNOG deleted, MW corrected to RTECS and HSDB. T-0, T-1, T-2 changed.
230	Azaserine; (L-Serine, diazoacetate (ester))	115-02-6	0.0125	0.04	0.25	75	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
231	Azinphos ethyl; (Ethyl guthion)	2642-71-9	0.75	2	3.9	150	mg/m <sup>3</sup>	T-2 changed.
232	Azinphos methyl; (GuthionR)	86-50-0	0.2	0.6	0.7	10	mg/m <sup>3</sup>	
233	Azirdine; (ethylenimine; poly(ethyleneimine))	9002-98-6	5	15	100	500	mg/m <sup>3</sup>	Added. Lowest MW compound selected.
234	Azobis(2-methylpropionitrile), 2,2'-	78-67-1	7.5	25	150	300	mg/m <sup>3</sup>	
235	Azodicarbamide; (Azodicarbonamide)	123-77-3	40	125	200	200	mg/m <sup>3</sup>	
236	Bacto peptone	51142-18-8	10	30	50	250	mg/m <sup>3</sup>	Not in databases, no useful data in MSDS.
237	Barbituric acid	67-52-7	2	6	40	200	mg/m <sup>3</sup>	Deleted PNOS, T-0, T-1 changed.
238	Barium	7440-39-3	0.5	1.5	50	250	mg/m <sup>3</sup>	T-2, T-3 changed.
239	Barium acetate; (Barium acetate anhydrous)	543-80-6	0.93	2.79	4.65	93	mg/m <sup>3</sup>	All Ts changed.
240	Barium carbonate	513-77-9	0.3	0.75	6	500	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
241	Barium chloride	10361-37-2	0.5	1.5	15	50	mg/m <sup>3</sup>	T-2 changed.
242	Barium chloride dihydrate	10326-27-9	0.889	2.67	4.45	88.9	mg/m <sup>3</sup>	All Ts changed.
243	Barium chromate	10294-40-3	0.0246	0.737	1.25	73.7	mg/m <sup>3</sup>	New OSHA PEL-TWA. T-0, T-1, T-2 changed.
244	Barium cyanide	542-62-1	0.69	2.07	3.5	69	mg/m <sup>3</sup>	T-0, T-1, T-3 changed.
245	Barium dioxide; (Barium peroxide)	1304-29-6	0.617	0.617	1.5	7.5	mg/m <sup>3</sup>	T-0, T-1 changed.
246	Barium diphenylamine sulfonate	6211-24-1	2.31	6.92	11.5	231	mg/m <sup>3</sup>	All Ts changed. MF, MW, MP ex ChemFinder.
247	Barium fluoride	7787-32-8	0.638	1.92	15	100	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
248	Barium hydrogen phosphate; (Barium phosphate dibasic)	10048-98-3	0.849	2.55	4.25	20	mg/m <sup>3</sup>	T-0, T-2 changed.
249	Barium hydroxide	17194-00-2	0.624	1.87	3.12	100	mg/m <sup>3</sup>	T-0. T-1, T-2 changed,
250	Barium hydroxide octahydrate	12230-71-6	1.15	3	20	115	mg/m <sup>3</sup>	Loses water of crystallization at 78 C. T-2, T-3 changed.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
251	Barium metaborate	13701-59-2	10	30	200	500	mg/m <sup>3</sup>	
252	Barium nitrate	10022-31-8	0.952	2.5	15	95.2	mg/m <sup>3</sup>	All Ts changed.
253	Barium nitrite	13465-94-6	0.835	2.5	4.17	20	mg/m <sup>3</sup>	T-0, T-2 changed.
254	Barium oxide	1304-28-5	0.558	1.67	2.79	55.8	mg/m <sup>3</sup>	Moisture sensitive, Ts changed.
255	Barium permanganate	7787-36-2	1.37	20.5	34.1	34.1	mg/m <sup>3</sup>	Sparingly sol in H <sub>2</sub> O, all Ts changed,
256	Barium phosphate	13466-20-1	0.788	2.36	4	20	mg/m <sup>3</sup>	T-0, T-1 changed.
257	Barium stearate	6865-35-6	10	30	200	500	mg/m <sup>3</sup>	SAX & TSCA have H72, MW=706.4; RTECS & H&N have H70, MW=704.40. T-1, T-2, T-3 changed.
258	Barium sulfate	7727-43-7	15	30	350	500	mg/m <sup>3</sup>	T-2, T-3 changed.
259	Basic Green 4; (Aizen malachite green)	569-64-2	0.35	1	6	35	mg/m <sup>3</sup>	.
260	Basic Red 1; (Rhodamine 6G extra base)	989-38-8	0.025	0.075	0.6	2.5	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
261	Bathophenanthroline	1662-01-7	75	250	500	500	mg/m <sup>3</sup>	Added. MSDS states non-hazardous, therefore assume HHR = 1.
262	Bentonite; (Clay absorbent)	1302-78-9	10	30	50	50	mg/m <sup>3</sup>	
263	Benz(e)acephenanthrylene; (Benzo(b)fluoroanthene)	205-99-2	0.2	0.6	4	20	mg/m <sup>3</sup>	Names corrected.
264	Benzal chloride	98-87-3	0.4	1.25	2.3	500	mg/m <sup>3</sup>	
265	Benzaldehyde	100-52-7	2	4	4	150	ppm	All Ts changed.
266	Benzamide	55-21-0	3	10	60	350	mg/m <sup>3</sup>	
267	Benzenamine, sulfate (2:1)	542-16-5	10	30	50	250	mg/m <sup>3</sup>	TSCA listed, no toxicity data found.
268	<b>Benzene</b>	<b>71-43-2</b>	1	52	800	<b>4000</b>	ppm	<b>Interim AEGL-1, -2, -3. See LEL formatting note.</b>
269	Benzene D6; (Deuterated benzene)	1076-43-3	1	50	150	1000	ppm	Synonym added. See LEL formatting note.
270	Benzene hexachloride; (Hexachlorocyclohexane, mixed isomers)	608-73-1	0.15	0.5	4	40	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
271	Benzene, 1-(chloromethyl)-4-nitro-; (p-Nitrobenzyl chloride)	100-14-1	5	15	28	125	mg/m <sup>3</sup>	
272	Benzeneearsonic acid; (Phenylarsonic acid)	98-05-5	0.27	0.27	0.27	0.27	mg/m <sup>3</sup>	
273	Benzenesulfonic acid chloride; (Benzenesulfonyl chloride)	98-09-9	0.5	1.5	200	200	mg/m <sup>3</sup>	
274	Benzenesulfonic acid, 4-chloro	98-66-8	2	6	40	200	mg/m <sup>3</sup>	Added.
275	Benzenesulfonic acid, 5-chloro-2	z-0130	10	30	50	250	mg/m <sup>3</sup>	Added. Not found in databases.
276	Benzenetetracarboxylic dianhydride, 1,2,4,5-	89-32-7	1.5	5	15	15	mg/m <sup>3</sup>	
277	Benzenethiol; (Thiophenol; Phenyl mercaptan)	108-98-5	0.311	0.4	3.11	3.5	ppm	T-2 changed.
278	Benzidene	92-87-5	0.15	0.5	3.5	125	mg/m <sup>3</sup>	
279	Benzo(a)anthracene	56-55-3	0.1	0.3	2	15	mg/m <sup>3</sup>	
280	Benzo(a)pyrene; (Coal tar pitch volatiles)	50-32-8	0.2	0.6	15	80	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
281	Benzo(ghi)perylene	191-24-2	10	30	50	250	mg/m <sup>3</sup>	No toxicity data found.
282	Benzo(k)fluoranthene	207-08-9	0.2	0.6	4	20	mg/m <sup>3</sup>	
283	Benzo-4,7,13,16,21,24-hexaoxa-1,10-diazabicyclo(8.8.8)hexacosane, 5,6-	31250-18-7	1.5	5	35	150	mg/m <sup>3</sup>	Not found in databases. MSDS MW, SG.
284	Benzoic acid	65-85-0	4	12.5	75	400	mg/m <sup>3</sup>	
285	Benzoic acid, sodium salt	532-32-1	100	350	500	500	mg/m <sup>3</sup>	No pchem data found.
286	Benzoin oxime	441-38-3	0.6	1.5	12.5	60	mg/m <sup>3</sup>	Rat LD > 500 mg/kg. No pchem data found. Duplicate entry deleted.
287	<b>Benzonitrile</b>	<b>100-47-0</b>	1	3	22	56	ppm	<b>Interim AEGL-2, -3. See LEL formatting note.</b>
288	Benzophenone	119-61-9	0.5	1.5	350	500	mg/m <sup>3</sup>	WEEL-TWA added. T-0, T-1, T-2 changed.
289	Benzoquinone, p-; (Quinone)	106-51-4	0.1	0.3	0.5	22.6	ppm	
290	Benzothiazole	95-16-9	5	15	100	150	mg/m <sup>3</sup>	Added.

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
291	Benzotriazole	95-14-7	0.025	0.075	0.5	250	mg/m <sup>3</sup>	
292	Benzotrifluoride	98-08-8	6.41	15	125	500	mg/m <sup>3</sup>	T-0, T-2 changed. See LEL formatting note.
293	<b>Benzoyl chloride</b>	<b>98-88-4</b>	0.3	0.3	5	20	ppm	<b>ERPG-1, -2, -3. See LEL formatting note.</b>
294	Benzoyl peroxide	94-36-0	5	5	12.5	500	mg/m <sup>3</sup>	
295	Benzyl acetate	140-11-4	10	10	10	30	ppm	Added.
296	Benzyl alcohol	100-51-6	10	60	150	150	ppm	WEEL-TWA added. All Ts changed. See LEL formatting note.
297	Benzyl aminopurine, 6-; (6-Benzyladenine)	1214-39-7	5	15	100	500	mg/m <sup>3</sup>	Added.
298	Benzyl benzoate	120-51-4	12.5	35	250	500	mg/m <sup>3</sup>	
299	<b>Benzyl chloride</b>	<b>100-44-7</b>	1	1	10	50	ppm	<b>ERPG-1, -2, -3, revised ERPG-3 value. See LEL formatting note.</b>
300	Benzyl chloroformate; (Carbobenzoxy chloride)	501-53-1	0.6	1.5	12.5	60	mg/m <sup>3</sup>	Added.

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
301	Benzyl cyanide; (Phenylacetonitrile)	140-29-4	0.2	0.6	4.3	30	mg/m <sup>3</sup>	
302	Benzyl trichloride; (Trichloromethylbenzene)	98-07-7	0.1	0.1	7	25	mg/m <sup>3</sup>	T-2 changed.
303	Benzylamine	100-46-9	2.5	7.5	50	250	mg/m <sup>3</sup>	
304	Benzylbutylester phthalic acid; (Benzyl butyl phthalate)	85-68-7	5	15	500	500	mg/m <sup>3</sup>	See LEL formatting note.
305	Benzyl dimethylamine; (Dimethylbenzylamine, n,n-; BDMA)	103-83-3	1	3	20	200	mg/m <sup>3</sup>	
306	Benzyl dimethyloctadecylammonium chloride; (Dimethyloctadecylbenzylammonium chloride)	122-19-0	5	15	100	500	mg/m <sup>3</sup>	
307	Benzylmagnesium chloride	6921-34-2	1.5	5	35	150	mg/m <sup>3</sup>	Added. TSCA listed. Water reactive, it is in solution of diethyl ether or tetrahydrofuran. No toxicity data found.
308	Benzyltrimethylammonium hydroxide; (Triton b)	100-85-6	0.1	0.35	2.5	12.5	mg/m <sup>3</sup>	Added
309	<b>Beryllium</b>	<b>7440-41-7</b>	0.002	0.005	0.025	0.1	mg/m <sup>3</sup>	<b>ERPG-2, -3</b>
310	Beryllium chloride	7787-47-5	0.0177	0.0443	0.0443	35.5	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
311	Beryllium fluoride	7787-49-7	0.0104	0.0261	0.0261	20.9	mg/m <sup>3</sup>	All Ts changed
312	Beryllium hydroxide	13327-32-7	0.0095	0.0239	0.239	19.1	mg/m <sup>3</sup>	All Ts changed
313	Beryllium nitrate	13597-99-4	0.0295	0.0738	7.38	59	mg/m <sup>3</sup>	
314	Beryllium oxide	1304-56-9	0.0056	0.0139	1.39	11.1	mg/m <sup>3</sup>	All Ts changed
315	Betaine, anhydrous; (Glycine betaine)	107-43-7	40	125	500	500	mg/m <sup>3</sup>	Added.
316	Bicyclo(2.2.1)heptane-2-carbonitrile, 5-chloro-6-(((methylamino)carbonyl)oxy)lmino)-, (1s-(1-alpha,2-beta,4-alpha,5-alpha,6E))-.	15271-41-7	3.5	10	19	19	mg/m <sup>3</sup>	Names vary from source to source, CAS RN identifies.
317	Bioxirane, 2,2-; (1,2:3,4-Diepoxybutane)	1464-53-5	0.04	0.125	0.995	10	ppm	
318	Biphenylol, 4-	92-69-3	10	35	60	60	mg/m <sup>3</sup>	
319	Biphenylol, sodium salt, 2-;	132-27-4	2.5	7.5	60	300	mg/m <sup>3</sup>	
320	Bis(1,1-dimethylethyl)-4-ethylphenol, 2,6-	4130-42-1	4	12.5	75	400	mg/m <sup>3</sup>	

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
321	Bis(1,1-dimethylethyl)-4-methylphenol, 2,6-; (BHT (food grade); 2,6-Di-tert-butyl-p-cresol)	128-37-0	2	6	40	400	mg/m <sup>3</sup>	T-2 changed.
322	Bis(1-methylethyl)benzene, 1,4-; (p- or 1,4-Diisopropylbenzene)	100-18-5	12.5	40	300	500	mg/m <sup>3</sup>	Name corrected.
323	Bis(1-methylethyl)benzene; (Diisopropylbenzene)	25321-09-9	5	15	100	500	mg/m <sup>3</sup>	See LEL formatting note.
324	Bis(2,3-epoxypropoxy) butane, 1,4-	2425-79-8	30	100	500	500	mg/m <sup>3</sup>	
325	Bis(2-butoxyethyl) ether; (Dibutyl carbitol; Diethylene glycol dibutyl ether)	112-73-2	6	15	125	200	ppm	
326	Bis(2-chlorethylthioethyl) ether; (2-2'-Di(3-chloroethylthio)diethyl ether)	63918-89-8	0.3	0.75	6	30	mg/m <sup>3</sup>	
327	Bis(2-Chloroethoxy)ethane, 1,2-; (Triglycol dichloride)	112-26-5	1	3	20	100	mg/m <sup>3</sup>	Added.
328	<b>Bis(2-chloroethyl)sulfide; (HD; Sulfur mustard)</b>	<b>505-60-2</b>	0.0035	0.01	0.02	0.32	ppm	<b>Final AEGL-1, -2, -3.</b>
329	Bis(2-chloroethylthio)ethane, 1,2-; (Sesquimustard)	3563-36-8	0.06	0.15	1.25	6	mg/m <sup>3</sup>	
330	Bis(2-chloroethylthio)methane	63869-13-6	0.05	0.15	1	5	mg/m <sup>3</sup>	Not found in databases.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
331	Bis(2-chloroethylthio)-n-butane, 1,4-	142868-93-7	0.06	0.2	1.25	6	mg/m <sup>3</sup>	Not found in databases.
332	Bis(2-chloroethylthio)-n-pentane, 1,5-	142868-94-8	0.075	0.2	1.5	7.5	mg/m <sup>3</sup>	Not found in databases.
333	Bis(2-chloroethylthio)-n-propane, 1,3-	63905-10-2	0.06	0.15	1.25	6	mg/m <sup>3</sup>	Not found in databases.
334	Bis(2-chloroethylthiomethyl)ether	63918-90-1	0.06	0.15	1.25	6	mg/m <sup>3</sup>	Not found in databases.
335	Bis(2-ethoxyethyl) ether; (Diethyl carbitol)	112-36-7	75	250	500	500	mg/m <sup>3</sup>	
336	Bis(2-ethylhexyl) hydrogen phosphate	298-07-7	0.02	0.06	0.4	2	mg/m <sup>3</sup>	
337	Bis(2-ethylhexyl) phenyl phosphate	16368-97-1	0.075	0.2	1.5	7.5	mg/m <sup>3</sup>	No pchem data found, 17W mammal TClo ignored.
338	Bis(2-hydroxyethyl)dodecanamide, N,N-	120-40-1	0.004	0.01	0.075	100	ppm	
339	Bis(2-methylstyryl)benzene, 4-; (1,4-Bis(2-(2-methylphenyl)ethenyl)benzene)	13280-61-0	10	30	50	250	mg/m <sup>3</sup>	No useful data found.
340	Bis(3-tert-butyl-4-hydroxy-6-methyl-phenyl) sulfide	96-69-5	15	30	300	500	mg/m <sup>3</sup>	T-2 changed.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
341	Bis(chloromethyl)ketone; (1,3-Dichloroacetone)	534-07-6	0.125	0.4	2	2	mg/m <sup>3</sup>	
342	Bis(chloromethyl)oxetane, 3,3-	78-71-7	0.4	1.25	2	75	mg/m <sup>3</sup>	
343	Bis(Dimethylamino)acridine, 3,6-; (Acridine orange)	494-38-2	0.4	1.25	7.5	40	mg/m <sup>3</sup>	
344	Bis(trifluoromethyl)benzene, 1,3-	402-31-3	4.7	14.1	23.5	470	mg/m <sup>3</sup>	No toxicity data found. All Ts changed
345	Bis(tris(hydroxymethyl)methylamino)propane, 1,3-; (Bis-tris propane)	64431-96-5	10	30	50	250	mg/m <sup>3</sup>	Not listed in databases. ChemFinder listed, MSDS pchem data.
346	Bis[(benzo-15crown-5)-15-ylmethyl] pimelate	69271-98-3	10	30	50	250	mg/m <sup>3</sup>	Not found in databases.
347	Bisbutenylenetetrahydrofurfural; (2,3,4,5-bis(2-butylene)tetrahydro-2-furaldehyde)	126-15-8	10	30	200	500	mg/m <sup>3</sup>	
348	Bismuth	7440-69-9	1.5	5	40	200	mg/m <sup>3</sup>	
349	Bismuth acetate	22306-37-2	10	30	50	250	mg/m <sup>3</sup>	HSDB, HC&P listed, no toxicity data, MSDS HHR =2.
350	Bismuth germanate	12233-73-7	1.5	5	40	200	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
351	Bismuth hydroxide	10361-43-0	1	1	3	100	mg/m <sup>3</sup>	<b>SAR</b>
352	Bismuth hydroxide nitrate oxide; (White paint)	1304-85-4	7.5	20	150	500	mg/m <sup>3</sup>	
353	Bismuth iodide	7787-64-6	1.5	5	35	150	mg/m <sup>3</sup>	TSCA listed, ChemFinder pchem data. HHR = 3
354	Bismuth nitrate	10361-44-1	1.25	4	25	500	mg/m <sup>3</sup>	
355	Bismuth oxide	1304-76-3	20	60	400	500	mg/m <sup>3</sup>	
356	Bismuth oxychloride	7787-59-9	75	250	500	500	mg/m <sup>3</sup>	
357	Bismuth(III) nitrate, pentahydrate	10035-06-0	2	6	40	500	mg/m <sup>3</sup>	
358	Bisphenol A	80-05-7	5	15	100	500	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
359	Bisphenol A diglycidyl ether	1675-54-3	1.25	3.5	6	6	mg/m <sup>3</sup>	
360	Bitoscanate; (1,4-Phenylenediisothiocyanic acid)	4044-65-9	4	12.5	20	20	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
361	BoBCalix; (Calix[4]arene-bis(t-octylbenzo-crown-b))	z-0110	10	30	50	250	mg/m <sup>3</sup>	Added. Not found in databases. MF, MW from MSDS.
362	Borane methyl sulfide complex; (Methyl sulfide complex with borane (1:1))	13292-87-0	0.1	0.3	2	10	ppm	Added.
363	Borane-tetrahydrofuran	14044-65-6	5	15	25	125	mg/m <sup>3</sup>	No toxicity data, unstable
364	Borate	14213-97-9	60	150	500	500	mg/m <sup>3</sup>	Added. Not found in databases. Used human median lethal dose for boric acid.
365	Boric acid	10043-35-3	2	6	100	125	mg/m <sup>3</sup>	
366	Boric acid, tributyl ester; (Tri-n-butyl borate)	688-74-4	0.75	2.5	20	100	ppm	
367	Boron	7440-42-8	2.5	7.5	50	250	mg/m <sup>3</sup>	
368	Boron carbide	12069-32-8	10	30	50	250	mg/m <sup>3</sup>	No toxicity data found.
369	Boron nitride	10043-11-5	400	500	500	500	mg/m <sup>3</sup>	Rat LD > 50 g/kg
370	Boron oxide	1303-86-2	15	30	300	500	mg/m <sup>3</sup>	T-2 changed.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
371	Boron tribromide	10294-33-4	1	1	1	5	ppm	
372	Boron trichloride	10294-34-5	0.1	0.3	2.09	2.5	ppm	
373	<b>Boron trifluoride</b>	<b>7637-07-2</b>	2	2	30	100	mg/m <sup>3</sup>	<b>ERPG-1, -2, -3. AEGLs deleted.</b>
374	Boron trifluoride etherate	109-63-7	9.34	25	150	500	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
375	<b>Boron trifluoride-dimethyl ether</b>	<b>353-42-4</b>	0.75	2.5	37	110	mg/m <sup>3</sup>	<b>Interim AEGL-1, -2, -3. AEGLs added.</b>
376	Brij-35; (alpha-Dodecyl-omega-hydroxypolyoxy-ethylene)	900-29-2	0.15	0.5	3.5	400	mg/m <sup>3</sup>	Added. CAS RN corrected.
377	Brilliant blue	2650-18-2	0.06	0.06	0.06	0.06	mg/m <sup>3</sup>	ChemFinder has different MF, MW
378	Bromadiolone	28772-56-7	0.2	0.6	1	1	mg/m <sup>3</sup>	
379	<b>Bromine</b>	<b>7726-95-6</b>	0.033	0.033	0.24	8.5	ppm	<b>Interim AEGL-1, -2, -3.</b>
380	Bromine chloride	13863-41-7	10	30	50	250	mg/m <sup>3</sup>	No toxicity data found.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
381	<b>Bromine pentafluoride</b>	<b>7789-30-2</b>	0.1	0.15	1	33	ppm	<b>Interim AEGL-2, -3.</b>
382	<b>Bromine trifluoride</b>	<b>7787-71-5</b>	0.12	0.12	2	21	ppm	<b>Interim AEGL-1, -2, -3.</b>
383	Bromo acetic acid, methyl ester	96-32-2	0.25	0.75	5	25	mg/m <sup>3</sup>	Pchem data differs in SAX, HC&P, ChemFinder.
384	Bromo-1-chloro-5,5-dimethylhydantoin, 3-; (Bromo-1-chloro-5,5-dimethyl-2,4-imidazolidinedione, 3-)	126-06-7	2.5	7.5	50	250	mg/m <sup>3</sup>	Synonym corrected. T-0,T-1 changed.
385	Bromo-2-chloro-1,1,2-trifluoroethane, 1-; (Halon 1301; 1,1,2-Trifluoro-1-bromo-2-chloroethane)	354-06-3	50	150	1000	5000	ppm	Changed name and MF.
386	Bromo-3-chloro-5,5-dimethylhydantoin, 1-; (1-Bromo-3chloro-5,5-dimethyl-2,4-imidazolidinedione)	16079-88-2	6	15	125	500	mg/m <sup>3</sup>	
387	Bromo-3-methylbutane, 1-	107-82-4	4	12.5	75	400	ppm	Added.
388	Bromoacetaldehyde diethyl acetul	2032-35-1	7.5	25	150	500	mg/m <sup>3</sup>	Added. TSCA listed. MSDS HHR = 2.
389	Bromoacetic acid	79-08-3	0.04	0.125	0.75	4	mg/m <sup>3</sup>	Added. Corrosiveto skin and mucous membranes.
390	Bromoacetone	598-31-2	0.075	0.2	1.5	7.5	ppm	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
391	Bromoanisole, 99, 3-	2398-37-0	10	30	50	250	mg/m <sup>3</sup>	Added. No toxicity data, no HHR found.
392	Bromobenzene; (Phenyl bromide)	108-86-1	0.75	2.5	15	350	ppm	See LEL formatting note.
393	Bromochlorobenzene, m-	108-37-2	10	30	50	250	mg/m <sup>3</sup>	
394	Bromochlorobenzene, p-	106-39-8	10	30	50	250	mg/m <sup>3</sup>	
395	Bromochloromethane	74-97-5	200	600	1000	2000	ppm	See LEL formatting note.
396	Bromocresol green	76-60-8	10	30	50	250	mg/m <sup>3</sup>	No toxicity data found.
397	Bromocresol purple	115-40-2	10	30	50	250	mg/m <sup>3</sup>	No toxicity data found.
398	Bromocyclohexanol, Cis-2-	16536-57-5	0.04	0.125	0.75	40	ppm	<b>SAR</b>
399	Bromodecane, 1-	112-29-8	1.5	5	35	150	ppm	Added.
400	Bromodichloromethane	75-27-4	1.5	4	30	150	mg/m <sup>3</sup>	

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
401	Bromododecane, 1-	143-15-7	7.5	25	150	500	mg/m <sup>3</sup>	Added. TSCA listed, MSDS HHR = 2.
402	Bromoethane	74-96-4	5	1500	1500	1500	ppm	PEL-TWA ignored. T-1, t-2 changed.
403	Bromoethanol, 2- (ethylene bromohydrin)	540-51-2	0.075	0.2	1.5	60	mg/m <sup>3</sup>	Added.
404	Bromoethylmagnesium	925-90-6	1.5	5	35	150	mg/m <sup>3</sup>	Added. TSCA listed, no toxicity data found, MSDS HHR = 3.
405	Bromofluorobenzene, 4-; (p-fluorobromobenzene)	460-00-4	75	200	500	500	mg/m <sup>3</sup>	Added.
406	Bromoform; (Tribromomethane)	75-25-2	0.5	0.5	1	850	ppm	
407	Bromohexane; (n-Hexyl bromide)	111-25-1	40	125	750	4000	ppm	Added.
408	Bromomesitylene, 2-; (2-Bromo-1,3,5-trimethylbenzene)	576-83-0	10	30	50	250	mg/m <sup>3</sup>	Added. TSCA & HC&P listed. No toxicity data found.
409	Bromomethyl-1,3-dioxolane, 2-	4360-63-8	7.5	25	150	500	mg/m <sup>3</sup>	Added, TSCA listed, no toxicity data found, MSDS HHR.
410	Bromonaphthalene	90-11-9	3.5	10	60	350	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
411	Bromonitromethane	563-70-2	0.75	2.5	15	75	mg/m <sup>3</sup>	Added. MSDS HHR = 2.
412	Bromooctane, 1-; (Octyl bromide)	111-83-1	2.5	7.5	50	250	ppm	Added.
413	Bromophenol blue	115-39-9	10	30	50	250	mg/m <sup>3</sup>	Added. RTECS, TSCA, HC&P listed, no toxicity data found.
414	Bromophenyl phenyl ether, 4-	101-55-3	2	6	40	200	mg/m <sup>3</sup>	
415	Bromopropane, 1-	106-94-5	10	30	2500	2500	ppm	See LEL formatting note.
416	Bromopropane, 2-	75-26-3	600	1500	12500	25000	ppm	
417	Bromopyrene, 3-	1714-29-0	10	30	50	250	mg/m <sup>3</sup>	Not found in databases, assumed solid or non-volatile liquid.
418	Bromosuccinimide, N-	128-08-5	2	6	40	200	mg/m <sup>3</sup>	
419	Bromothymol blue	76-59-5	10	30	50	250	mg/m <sup>3</sup>	RTECS, TSCA, HC&P listed, no toxicity data.
420	Bromotoluene, A-; (Benzyl bromide)	100-39-0	0.6	1.5	12.5	60	mg/m <sup>3</sup>	

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
421	Bromotrichloromethane	75-62-7	0.06	0.15	1.25	6	ppm	
422	Bromotrifluoroethylene	598-73-2	7.06	21.2	125	125	ppm	T-0, T-1, T-2 changed.
423	Bromotrifluoromethane; (Trifluorobromomethane)	75-63-8	1000	3500	25000	40000	ppm	T-1 changed.
424	Bromotrimethylsilane; (Trimethylsilyl bromide)	2857-97-8	1.5	5	35	150	mg/m <sup>3</sup>	Added. TSCA listed, no toxicity data found, MSDS HHR = 3.
425	Brown menhaden fish oil	68440-42-6	10	30	50	250	mg/m <sup>3</sup>	Added. TSCA listed, no toxicity or pchem data found
426	Brucine; (2,3-Dimethoxystrychnine)	357-57-3	0.6	1.5	12.5	40	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
427	Buffer	3418-02-5	10	30	50	250	mg/m <sup>3</sup>	Added. Not found in databases. CAS RN incorrect.
428	Buffer solution, aqueous	7732-18-5	500	500	500	500	mg/m <sup>3</sup>	
429	<b>Butadiene,1,3-</b>	<b>106-99-0</b>	2	670	<b><i>5300</i></b>	<b><i>22000</i></b>	ppm	<b>Interim AEGL-1, -2, -3.</b> See LEL formatting note.
430	Butanaminium,N,N,N-tributyl bromide, 1-; (Tetrabutylammonium bromide)	1643-19-2	10	30	50	250	mg/m <sup>3</sup>	No toxicity data found.

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
431	<b>Butane</b>	<b>106-97-8</b>	800	<i>5500</i>	<i>17000</i>	<i>53000</i>	ppm	<b>AEGL-1, -2, -3. See LEL formatting note.</b>
432	Butanedioic acid, diethyl ester; (Succinic acid, diethyl ester)	123-25-1	5	15	100	500	ppm	See LEL formatting note.
433	Butanedioic acid, dimethyl ester; (Succinic acid, dimethyl ester)	106-65-0	3.5	10	75	350	ppm	See LEL formatting note.
434	Butanediol dinitrate, 1,4-	3457-91-8	0.05	0.125	0.4	3	ppm	<b>SAR</b>
435	Butanediol, 1,3-	107-88-0	25	75	500	500	mg/m <sup>3</sup>	
436	Butanediol, 1,4-; (1,4-Tetramethylene glycol; TMA)	110-63-4	1.25	3.5	25	250	mg/m <sup>3</sup>	
437	Butanedione, 2,3-	431-03-8	20	60	400	400	mg/m <sup>3</sup>	Added.
438	Butanenitrile; (Butyronitrile)	109-74-0	8	24	40	50	ppm	See LEL formatting note.
439	Butanephosphonic acid	3321-64-0	0.02	0.06	0.4	2	mg/m <sup>3</sup>	H&N listed, name changed from Disodium butylphosphonate, MW = 184.00, MF = C6.H11.O3.P SAR
440	Butanethiol; (n-Butyl mercaptan)	109-79-5	0.5	7.5	50	500	ppm	See LEL formatting note.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
441	Butanoic acid, butyl ester; (n-Butyl n-butanoate)	109-21-7	1.5	5	35	150	ppm	
442	Butanol, aluminum salt, 2-	2269-22-9	18.3	54.8	91.3	400	mg/m <sup>3</sup>	TSCA, HC&P listed, no toxicity data. All Ts changed.
443	Butanol, N-(d10)	34193-38-9	0.5	1.5	10	50	ppm	Added. LC60 estimated from HHR.
444	Butanone oxime; (Ethyl methyl ketoxime)	96-29-7	10	40	100	100	ppm	WEEL-TWA added. T-0 changed.
445	<b>Butanone, 2-; (Methyl ethyl ketone; MEK)</b>	<b>78-93-3</b>	200	200	<i>2700</i>	<i>4000</i>	ppm	<b>Interim AEGL-1, -2, -3. See LEL formatting note.</b>
446	Butene, 1-; (Butylene)	106-98-9	400	1200	<i>2000</i>	<i>10000</i>	ppm	See LEL formatting note. T-3 changed.
447	Butene, 2-	107-01-7	1.5	4	30	150	ppm	All Ts changed. See LEL formatting note.
448	Butene, cis-2-; (cis-1,2-Dimethylethylene)	590-18-1	<u><i>65000</i></u>	<u><i>65000</i></u>	<u><i>230000</i></u>	<u><i>400000</i></u>	ppm	Simple asphyxiant. All Ts changed. See LEL formatting note.
449	Butene, trans-2-; (Trans-1,2-dimethylethylene)	624-64-6	<i>6000</i>	<i>15000</i>	<u><i>25000</i></u>	<u><i>25000</i></u>	ppm	Name corrected. See LEL formatting note.
450	Butoxyethanol acetate, 2-; (Ethylene glycol monobutyl ether acetate)	112-07-2	5	15	25	150	ppm	See LEL formatting note.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
451	Butoxyethanol phosphate, 2-	78-51-3	7.5	20	150	500	mg/m <sup>3</sup>	
452	Butoxyethanol, 2-; (Glycol ether EB; Xtraction II)	111-76-2	50	50	100	700	ppm	See LEL formatting note.
453	Butoxyethoxy)-ethanol, 2-(2-; (Diethylene glycol monobutyl ether)	112-34-5	100	100	500	500	mg/m <sup>3</sup>	See LEL formatting note.
454	Butoxyethoxy)ethyl thiocyanate, 2-(2-	112-56-1	0.35	1	7.5	40	mg/m <sup>3</sup>	
455	Butoxypolypropylene glycol	9003-13-8	35	100	500	500	mg/m <sup>3</sup>	RTECS has six entries for this CAS RN
456	<b>Butyl acetate, n-</b>	<b>123-86-4</b>	5	5	200	<b>3000</b>	ppm	<b>ERPG-1, -2, -3. See LEL formatting note.</b>
457	Butyl acetate, sec-	105-46-4	200	200	300	1500	ppm	See LEL formatting note.
458	Butyl acetate, tert-	540-88-5	200	600	1000	<b>1500</b>	ppm	See LEL formatting note.
459	Butyl acetoacetate, tert-	1694-31-1	20	60	400	500	mg/m <sup>3</sup>	TSCA listed, no toxicity data found. MSDS rat oral LD50 > 5 g/kg.
460	<b>Butyl acrylate, n-</b>	<b>141-32-2</b>	2	8.3	130	480	ppm	<b>Interim AEGL-1, -2, -3. See LEL formatting note.</b>

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
461	Butyl alcohol, n-	71-36-3	50	50	50	<i>1400</i>	ppm	See LEL formatting note.
462	Butyl alcohol, sec-; (2-Butanol)	78-92-2	100	150	<i>2000</i>	<i>2000</i>	ppm	T-2 changed. See LEL formatting note.
463	Butyl bis(2-ethylhexyl)phosphate	z-0002	0.2	0.6	0.75	0.75	ppm	<b>SAR</b>
464	Butyl bromide, n-; (1-Bromobutane)	109-65-9	15	50	350	1500	ppm	Added. See LEL formatting note.
465	Butyl chloroformate, n-	592-34-7	1	3	20	100	ppm	Added. CHRIS, TSCA, HC&P ChemFinder listed, client r oral LD50.
466	Butyl chloroformate, sec-	17462-58-7	0.15	0.5	3.5	15	ppm	Added. TSCA, H&N, ChemFinder listed, no pchem data, SG assumed. Client rat LC50.
467	Butyl ether, n-; (Dibutyl ether)	142-96-1	1	3	20	400	ppm	See LEL formatting note.
468	Butyl glycidyl ether, n-	2426-08-6	3	3	5.6	250	ppm	PEL-TWA ignored. T-0, T-1, T-2 changed.. See LEL formatting note.
469	<b>Butyl isocyanate, n-</b>	<b>111-36-4</b>	0.0035	0.01	0.05	1	ppm	<b>ERPG-1, -2, -3</b>
470	Butyl isocyanate, Tert-	1609-86-5	0.25	0.75	5	25	mg/m <sup>3</sup>	Added. TSCA listed, MSDS toxicity data.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
471	Butyl levulinate	2052-15-5	20	60	400	500	mg/m <sup>3</sup>	Added. Rat LD50 > 5 g/m <sup>3</sup>
472	Butyl lithium	109-72-8	0.231	0.231	1.25	6	mg/m <sup>3</sup>	No toxicity data, based on LiH Lclo. T-0, T-1, T-2 changed.
473	Butyl methyl-d3 ether, tert-	29366-08-3	50	150	4000	4000	ppm	Added. Listed ChemFinder, no pchem or toxicity data found, used Tert-butyl methyl ether 1634-04-4 data.
474	Butyl perbenzoate, tert-	614-45-9	7.5	25	150	400	mg/m <sup>3</sup>	Rat and mouse 240 min LC > 57 mg/m <sup>3</sup>
475	Butyl propanoate; (Propanoic acid, butyl ester)	590-01-2	500	500	500	500	mg/m <sup>3</sup>	
476	Butyl-2-methylcyclopropane, T-1-	38851-70-6	10	30	50	250	mg/m <sup>3</sup>	Not found in any databases.
477	Butyl-3-iodo-2-propynyl ester carbamic acid	55406-53-6	10	30	50	250	mg/m <sup>3</sup>	Not found in any databases.
478	Butylamine, (S)-sec-	513-49-5	0.5	1.5	10	50	ppm	Units and all Ts changed. See LEL formatting note.
479	Butylamine, n-	109-73-9	5	5	50	300	ppm	See LEL formatting note.
480	Butylamine, sec-	13952-84-6	5	5	10	20	ppm	T-2 changed.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
481	Butylamine, tert-	75-64-9	5	5	10	125	ppm	T-2 changed. See LEL formatting note.
482	Butylbenzene, n-; (1-Phenylbutane)	104-51-8	7.5	20	150	750	ppm	See LEL formatting note.
483	Butylbenzene, sec-; (2-Phenylbutane)	135-98-8	1.5	5	35	150	ppm	
484	Butylbenzene, tert-	98-06-6	7.5	20	150	<b><i>750</i></b>	ppm	See LEL formatting note.
485	Butylcyclohexane; (1-Cyclohexylbutane)	1678-93-9	1.5	5	40	200	ppm	See LEL formatting note.
486	Butylcyclohexanone, p-tert-	98-53-3	20	60	400	500	mg/m <sup>3</sup>	
487	Butylene carbonate; (1,2-Butanediol, cyclic carbonate)	4437-85-8	20	60	400	500	mg/m <sup>3</sup>	Added. Rat LD50 > 5 g/kg. No pchem data found.
488	Butylpyrocatechol, 4-tert-; (4-tert-Butylcatechol)	98-29-3	0.1	0.3	2	500	mg/m <sup>3</sup>	2006 OEV Guide and 2006 ERPG and WEEL booklet WEEL data conflict. WEEL-TWA should be WEEL-C. T-0, T-1, T-2 changed.
489	Butyne-1,4-diol, 2-; (1,4-Butynediol)	110-65-6	0.35	1	20	30	mg/m <sup>3</sup>	
490	Butyraldehyde	123-72-8	0.02	0.06	0.4	12.5	ppm	WEEL-TWA = 25 ppm not used. All Ts changed. See LEL formatting note.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
491	Butyric acid	107-92-6	15	40	250	250	ppm	See LEL formatting note.
492	Butyric acid, sodium salt	156-54-7	50	150	500	500	mg/m <sup>3</sup>	Dog iv data ex HSDB.
493	C.I. pigment red 53:1; (5-Chloro-2-((2-hydroxy-1-naphthyl)azo)-p-toluene sulfonic acid, barium salt)	5160-02-1	12.5	35	250	500	mg/m <sup>3</sup>	Added. MSDS not found.
494	C-18 Unsaturated fatty acid, dimers, reaction products with polyethylenepolyamines; (Versamid 140 polyamide resin; Versamid 125)	68410-23-1	10	30	50	250	mg/m <sup>3</sup>	TSCA listed, no toxicity data.
495	Cacodylic acid	75-60-5	0.5	1.5	5	5	mg/m <sup>3</sup>	
496	Cadmium & compounds	7440-43-9	0.005	0.03	1.25	9	mg/m <sup>3</sup>	T-2, T-3 changed.
497	Cadmium bromide	7789-42-6	0.0121	0.0727	4	21.8	mg/m <sup>3</sup>	T-0, T-1, T-3 changed.
498	Cadmium carbonate	513-78-0	0.0077	0.046	4	13.8	mg/m <sup>3</sup>	T-0, T-1, T-3 changed.
499	Cadmium chloride	10108-64-2	0.0081	0.0489	0.5	14.7	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
500	Cadmium chloride hemipentahydrate; (Cadmium chloride, 2.5-hydrate)	7790-78-5	0.25	0.75	5	300	mg/m <sup>3</sup>	

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
501	Cadmium fluoride	7790-79-6	0.0067	0.0401	4	12	mg/m <sup>3</sup>	T-0, T-3 changed.
502	Cadmium hydroxide	21041-95-2	0.0065	0.0391	4	11.7	mg/m <sup>3</sup>	T-0, T-1, T-3 changed.
503	Cadmium nitrate	10325-94-7	0.0105	0.0631	4	18.9	mg/m <sup>3</sup>	T-0, T-1, T-3 changed.
504	Cadmium nitrate tetrahydrate	10022-68-1	0.0137	0.6	4	24.7	mg/m <sup>3</sup>	T-0, T-1 changed.
505	Cadmium nitrite	z-0003	0.0091	0.0546	4	16.4	mg/m <sup>3</sup>	T-0, T-1, T-3 changed.
506	Cadmium oxide	1306-19-0	0.0057	0.0343	4	10.3	mg/m <sup>3</sup>	T-0, T-3 changed.
507	Cadmium stearate; (Octadecanoic acid, cadmium salt)	2223-93-0	0.0303	0.182	13	54.6	mg/m <sup>3</sup>	T-1, T-2, T-3 changed.
508	Cadmium sulfate	10124-36-4	0.0093	0.0557	4	16.7	mg/m <sup>3</sup>	
509	Cadmium sulfate, hydrate	7790-84-3	0.0157	0.0941	0.3	28.2	mg/m <sup>3</sup>	MF, MW differ in HSDB, HC&P, ChemFinder from SAX and RTECS. All TS changed.
510	Cadmium sulfide	1306-23-6	0.0064	0.0386	11.6	11.6	mg/m <sup>3</sup>	All Ts changed.

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
511	Cadmium tungstate	7790-85-4	0.016	0.0961	4	28.8	mg/m <sup>3</sup>	T-0, T-1, T-3 changed.
512	Cadmium(II) acetate	543-90-8	0.0052	0.031	4	9.31	mg/m <sup>3</sup>	T-0, T-1, T-3 changed.
513	Calcium	7440-70-2	10	30	50	250	mg/m <sup>3</sup>	No toxicity data found.
514	Calcium acetate	62-54-4	0.02	0.06	0.4	30	mg/m <sup>3</sup>	
515	Calcium arsenate	7778-44-1	2	6	10	10	mg/m <sup>3</sup>	TLV-TWA deleted, T-0, T-1 changed.
516	Calcium carbide	75-20-7	10	30	50	250	mg/m <sup>3</sup>	
517	Calcium carbonate; (Dolomite, Limestone)	1317-65-3	15	45	75	350	mg/m <sup>3</sup>	"Y" concentration dependence ignored. T-1, T-2, T-3 changed.
518	Calcium chloride	10043-52-4	25	75	400	400	mg/m <sup>3</sup>	
519	Calcium chloride dihydrate	10035-04-8	40	125	500	500	mg/m <sup>3</sup>	
520	Calcium chloride hexahydrate	7774-34-7	5	15	100	500	mg/m <sup>3</sup>	Added. Corrected CAS RN from 7734-34-7

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
521	Calcium chloride hydrate	22691-02-7	30	100	450	500	mg/m <sup>3</sup>	Added. Not found in databases.
522	Calcium chromate	13765-19-0	0.015	0.0901	1.25	45	mg/m <sup>3</sup>	New OSHA PEL-TWA. All Ts changed.
523	Calcium cyanamide	156-62-7	0.5	1.5	125	500	mg/m <sup>3</sup>	T-2 changed.
524	Calcium fluoride	7789-75-5	5.14	15.4	200	500	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
525	Calcium formate	544-17-2	10	30	200	500	mg/m <sup>3</sup>	
526	Calcium hydride	7789-78-8	1.5	5	35	150	mg/m <sup>3</sup>	LD50 estiated from HHR. All Tschanged.
527	Calcium hydroxide	1305-62-0	15	15	500	500	mg/m <sup>3</sup>	T-2 changed.
528	Calcium hypochlorite; (Calcium oxychloride)	7778-54-3	3.5	10	75	350	mg/m <sup>3</sup>	T-0, T-2 changed.
529	Calcium metasilicate	10101-39-0	10	30	50	250	mg/m <sup>3</sup>	MF, MW differ in databases. No toxicity or pchem data found. No MSDS, assumed solid.
530	Calcium monohydrogen phosphate dihydrate	7789-77-7	10	30	50	250	mg/m <sup>3</sup>	No toxicity data found.

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
531	Calcium nitrite	13780-06-8	0.03	0.075	0.6	50	mg/m <sup>3</sup>	Listed as "Nitrous acid, calcium salt", MF = Ca.2(HNO <sub>2</sub> ), MW = 134.10 SAR
532	Calcium oxalate	563-72-4	6	15	50	50	mg/m <sup>3</sup>	Listed as "Ethanedioic acid, calcium salt", MF = C <sub>2</sub> H <sub>2</sub> O <sub>4</sub> .Ca, MW = 130.11 SAR
533	Calcium oxalate, hydrate	5794-28-5	10	30	50	250	mg/m <sup>3</sup>	In ChemFinder, no toxicity data.
534	Calcium oxide	1305-78-8	5	5	5	25	mg/m <sup>3</sup>	
535	Calcium phosphate tribasic	12167-74-7	10	30	50	250	mg/m <sup>3</sup>	No toxicity or pchem data found. MSDS MP, SG. T-3 changed.
536	Calcium phosphate; (Tricalcium phosphate)	10103-46-5	7.5	20	35	350	mg/m <sup>3</sup>	<b>SAR</b>
537	Calcium sulfate anhydrous; (Drierite)	7778-18-9a	15	30	50	250	mg/m <sup>3</sup>	MF and MW in HSDB not compatible.
538	Calcium sulfate; (Gypsum; Plaster of Paris)	7778-18-9b	15	30	50	250	mg/m <sup>3</sup>	
539	Calcium(II) nitrate	10124-37-5	1.25	3.5	25	125	mg/m <sup>3</sup>	
540	Calcium(II) nitrate tetrahydrate (1:2:4)	13477-34-4	15	50	350	500	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
541	Calcium(II) sulfate dihydrate (1:1:2)	10101-41-4	15	30	50	75	mg/m <sup>3</sup>	Long-term human TClo ignored. T-3 changed.
542	Camphor	76-22-2	2	19	19	200	mg/m <sup>3</sup>	T-1, T-2 changed. See LEL formatting note.
543	Camphorsulfonic acid, (1R)-(-)-10-	35963-20-3	4	12.5	75	400	mg/m <sup>3</sup>	Added. Not found in databases, used Reychler's acid, 3144-16-9, same MF and MW.
544	Cantharidin	56-25-7	0.75	2.5	4.3	4.3	mg/m <sup>3</sup>	
545	Caprolactam (dust)	105-60-2	1	3	3	20	mg/m <sup>3</sup>	T-0 changed. See LEL formatting note.
546	Caprolactone; (epsilon-Lactone hexanoic acid)	502-44-3	15	50	350	500	mg/m <sup>3</sup>	Added.
547	Caprylyl chloride; (Octanoyl chloride)	111-64-8	10	30	50	250	mg/m <sup>3</sup>	No toxicity data found, "Y" concentration dependence ignored. T-1, T-2, T-3 changed.
548	CAPSO	73463-39-5	10	30	50	250	mg/m <sup>3</sup>	Not found in databases, MSDS pchem data.
549	Captan	133-06-2	5	15	30	500	mg/m <sup>3</sup>	T-2 changed.
550	Carbachol Chloride	51-83-2	3	7.5	15	15	mg/m <sup>3</sup>	

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
551	Carbamic acid, methyl-, O-(((2,4-dimethyl-1,3-dithiolan-2-yl)methylene)amino)-	26419-73-8	0.2	0.6	1	1	mg/m <sup>3</sup>	SAX has "2,4-Dimethyl-1,3-dithiolane-2-carboxaldehyde o-(methylcarbamoyl)oxime"
552	Carbanolate; (Aldicarb; Methyl-2-(methylthio)propionaldehyde-o-(methylcarbamoyl)oxime, 2-)	116-06-3	0.07	0.21	0.3	100	mg/m <sup>3</sup>	See also "Carbanolate CAS RN = 471-04-5 in RTECS, HSDB, MF = C10.H12,Cl.N.O2, MW = 213.68"
553	Carbaryl	63-25-2	5	15	25	100	mg/m <sup>3</sup>	
554	Carbazole	86-74-8	0.75	2.5	15	75	mg/m <sup>3</sup>	
555	Carbazole violet	6358-30-1	75	250	500	500	mg/m <sup>3</sup>	TSCA listed, no toxicity or pchem data found. MSDS solid, HHR = 1.
556	Carbethoxyethylidene(triphenylphosphorane)	5717-37-3	10	30	50	250	mg/m <sup>3</sup>	No toxicity data found.
557	Carbofuran	1563-66-2	0.1	0.3	0.43	0.5	mg/m <sup>3</sup>	
558	Carbon black	1333-86-4	3.5	10.5	17.5	500	mg/m <sup>3</sup>	
559	Carbon dioxide	124-38-9	5000	30000	40000	40000	ppm	T-2 changed.
560	<b>Carbon disulfide</b>	<b>75-15-0</b>	13	13	160	480	ppm	<b>Interim AEGL-1, -2, -3. See LEL formatting note.</b>

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

**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
561	<b>Carbon monoxide</b>	<b>630-08-0</b>	50	83	83	330	ppm	<b>Interim AEGL-2, -3. See LEL formatting note.</b>
562	<b>Carbon tetrachloride</b>	<b>56-23-5</b>	10	44	190	520	ppm	<b>Interim AEGL-1, -2, -3.</b>
563	Carbon tetrafluoride; (Tetrafluoromethane)	75-73-0	200	600	5000	25000	ppm	Input data changed, all Ts changed.
564	Carbon trifluoride; (Trifluoromethane, Fluoroform)	75-46-7	750	3000	20000	100000	ppm	No toxicity data, TClo based on HSDB HTOX profile
565	Carbon; (Graphite, synthetic)	7440-44-0	2	6	10	500	mg/m <sup>3</sup>	(Graphite, synthetic) is synonym, CAS RN = 7782-42-5, Graphite, natural
566	Carbonic acid, calcium salt	471-34-1	15	30	500	500	mg/m <sup>3</sup>	T-2 changed.
567	Carbonyl fluoride	353-50-4	2	5	5	20	ppm	
568	Carbonyl sulfide	463-58-1	1.25	4	25	125	ppm	See LEL formatting note.
569	Carbonyldiphthalic anhydride, 4,4'-	2421-28-5	10	30	50	250	mg/m <sup>3</sup>	TSCA listed, no toxicity data.
570	Carbophenothion; (Trithion)	786-19-6	1.25	4	6.8	6.8	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
571	Carboxymethyl cellulose	9000-11-7	40	125	500	500	mg/m <sup>3</sup>	RTECS rat oral LD > 5 mg/kg, MW given is for x = 1
572	Carboxymethyl sepharose; (CM sepharose)	68894-07-5	7.5	25	150	500	mg/m <sup>3</sup>	Added. Not found in databases. HHR = 2 in MSDS.
573	Casamino acids	z-0008	10	30	50	250	mg/m <sup>3</sup>	Not found in databases; two hits in HSDB refer to use as a nitrogen source. CAS RN changed.
574	Casein; (Casamino acids; Casein hydrolysate type 1)	9000-71-9	10	30	50	250	mg/m <sup>3</sup>	TSCA & Merck listed, no toxicity data. H&N gives "milk protein".
575	Castor oil	8001-79-4	40	125	500	500	mg/m <sup>3</sup>	Toxicity data added, all Ts changed.
576	Catechol	120-80-9	5	15	25	25	ppm	See LEL formatting note.
577	Cation exchange resin 200-400 meshHyd.Dowex 50W-X8	11119-67-8	10	30	50	250	mg/m <sup>3</sup>	Not found in databases
578	Cation exchange resin 50W-X12, 200 - 400 mesh	9056-03-5	10	30	50	250	mg/m <sup>3</sup>	Not found in databases
579	Cellulose	9004-34-6	15	30	500	500	mg/m <sup>3</sup>	RTECS r LD50 & LC50 greater than values entered
580	Cellulose acetate butanoate; (Celvacene)	9004-36-8	10	30	50	250	mg/m <sup>3</sup>	TSCA, H&N listed, no toxicity data

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
581	Cellulose, 2-(diethylamino)ethyl ether	9013-34-7	10	30	50	250	mg/m <sup>3</sup>	TSCA listed, no toxicity data
582	Ceric ammonium nitrate	16774-21-3	39.1	117	200	500	mg/m <sup>3</sup>	T-0, T-1 changed.
583	Ceric ammonium sulfate	7637-03-8	42.9	129	214	500	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
584	Ceric ammonium sulfate, dihydrate	10378-47-9	10	30	50	250	mg/m <sup>3</sup>	Not found in databases. No MSDS. ChemFinder MP.
585	Ceric oxide	1306-38-3	6	20	125	500	mg/m <sup>3</sup>	Rat oral LD50 > 5 g/kg
586	Cerium	7440-45-1	10	30	50	250	mg/m <sup>3</sup>	
587	Cerium (iv) nitrate, 1.5	13093-17-9	10	30	50	250	mg/m <sup>3</sup>	Added. TSCA listed, no pchem or toxicity data found.
588	Cerium acetate	537-00-8	0.1	0.35	2	10	mg/m <sup>3</sup>	
589	Cerium chloride	7790-86-5	7.5	25	150	500	mg/m <sup>3</sup>	
590	Cerium fluoride	7758-88-5	8.65	25.9	43.2	500	mg/m <sup>3</sup>	Rat oral LD50 > 5 g/kg, T-0, T-1, T-2 changed.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
591	Cerium hydroxide	15785-09-8	0.75	0.75	2	75	mg/m <sup>3</sup>	<b>SAR</b>
592	Cerium nitrate hexahydrate	10294-41-4	15	50	350	500	mg/m <sup>3</sup>	
593	Cerium oxalate	15750-47-7	22.6	67.7	113	500	mg/m <sup>3</sup>	No toxicity data found. All Ts changed.
594	Cerium sulfate	13590-82-4	1	3.5	20	100	mg/m <sup>3</sup>	
595	Cerium trioxide	1345-13-7	2	6	40	200	mg/m <sup>3</sup>	
596	Cerium(iii) sulfate	13454-94-9	7.5	25	150	500	mg/m <sup>3</sup>	Added. TSCA listed, no toxicity data found. HHR = 2 in MSDS.
597	Cerium(IV) hydroxide	12014-56-1	14.9	44.6	75	350	mg/m <sup>3</sup>	TSCA listed, no toxicity data, irritation, S, ex ChemFinder. All Ts changed.
598	Cerous nitrate; (Cerium(III) nitrate)	10108-73-3	1	3	20	500	mg/m <sup>3</sup>	
599	Cerous nitrite	z-0004	0.04	0.1	0.75	75	mg/m <sup>3</sup>	<b>SAR</b>
600	Cesium	7440-46-2	6	20	150	500	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
601	Cesium carbonate	534-17-8	10	30	200	500	mg/m <sup>3</sup>	
602	Cesium chloride	7647-17-8	0.4	1.25	10	500	mg/m <sup>3</sup>	
603	Cesium fluoride	13400-13-0	20	60	100	500	mg/m <sup>3</sup>	
604	Cesium hydroxide	21351-79-1	2	2	7.5	250	mg/m <sup>3</sup>	
605	Cesium iodide	7789-17-5	10	30	200	500	mg/m <sup>3</sup>	
606	Cesium nitrate	7789-18-6	10	30	200	500	mg/m <sup>3</sup>	
607	Cesium nitrite	z-0005	0.075	0.2	1.5	60	mg/m <sup>3</sup>	<b>SAR</b>
608	Cesium oxide	20281-00-9	2.24	6.72	11.2	500	mg/m <sup>3</sup>	No toxicity data, but reacts with water to form Cs.O.H T-0, T-1, T-2 changed.
609	Charcoal, activated	64365-11-3	10	30	50	250	mg/m <sup>3</sup>	Synonym deleted.
610	Chloramben; (3-Amino-2,5-dichlorobenzoic acid)	133-90-4	35	100	500	500	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
611	Chloramphenicol	56-75-7	0.5	1.5	7.5	350	mg/m <sup>3</sup>	Added.
612	Chlordane	57-74-9	0.50	1.50	50.0	100	mg/m <sup>3</sup>	
613	Chlorfenvinfos	470-90-6	2	6	10	10	mg/m <sup>3</sup>	
614	Chloric acid, sodium salt; (Sodium chlorate)	7775-09-9	0.15	0.4	3	75	mg/m <sup>3</sup>	
615	Chloride	16887-00-6	0.5	1.00	1.0	10.0	ppm	Listed in ChemFinder. Chlorine concentration limits used.
616	Chlorinated polyolefins	68410-99-1	10	30	50.0	250	mg/m <sup>3</sup>	
617	<b>Chlorine</b>	<b>7782-50-5</b>	0.5	0.5	2	20	ppm	<b>Final AEGL-1, -2, -3.</b>
618	<b>Chlorine dioxide</b>	<b>10049-04-4</b>	0.1	0.15	1.1	2.4	ppm	<b>Final AEGL-1, -2, -3. See LEL formatting note.</b>
619	Chlorine Hi dry granular (as Cl)	z-0006	0.5	1	3	20	ppm	
620	<b>Chlorine pentafluoride</b>	<b>13637-63-3</b>	0.1	0.3	1	8	ppm	<b>Interim AEGL-1, -2, -3.</b>

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
621	<b>Chlorine trifluoride</b>	<b>7790-91-2</b>	0.1	0.12	2	21	ppm	<b>Final AEGL-1,-2, -3.</b>
622	Chlormephos	24934-91-6	1.25	4	7	35	mg/m <sup>3</sup>	
623	Chlormequat Chloride; (Choline dichloride)	999-81-5	0.35	1	7	7.5	mg/m <sup>3</sup>	
624	<b>Chloro-1,1-difluoroethane, 1-; (HCFC-142b)</b>	<b>75-68-3</b>	1000	<i>10000</i>	<i>15000</i>	<i>25000</i>	ppm	<b>ERPG-1, -2, -3. See LEL formatting note.</b>
625	Chloro-1,2-propanediol, 3-; (Chlorohydrin)	96-24-2	0.02	0.06	0.5	12.5	ppm	Added.
626	Chloro-1-butanol, 4-	928-51-8	1.5	5	35	400	mg/m <sup>3</sup>	
627	Chloro-2,4-dinitrobenzene, 1-	97-00-7	3	10	60	350	mg/m <sup>3</sup>	See LEL formatting note.
628	Chloro-2-methyl-1-propene, 3-	563-47-3	0.75	2.5	15	75	ppm	See LEL formatting note.
629	Chloro-2-methylpropane, 2-; (Tert-butyl chloride)	507-20-0	0.4	1	7.5	2000	ppm	Added.
630	Chloro-2-nitrophenol, 4-	89-64-5	0.4	1.25	7.5	40	mg/m <sup>3</sup>	TSCA, HC&P listed, MSDS toxicity data.

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
631	Chloro-4-nitrophenol, 2-	619-08-9	0.5	1.5	10	50	ppm	Name changed
632	<b>Chloroacetaldehyde</b>	<b>107-20-0</b>	1	1.3	2.2	9.9	ppm	<b>Interim AEGL-1, -2, -3. See LEL formatting note.</b>
633	Chloroacetaldehyde dimethyl acetal	97-97-2	7.5	25	150	500	mg/m <sup>3</sup>	TSCA listed, no toxicity data. MSDS pchem data, assumed HHR = 2.
634	Chloroacetic acid, sodium salt	3926-62-3	2.38	7.14	40	40	mg/m <sup>3</sup>	WEEL-TWA added, T-0, T-1 changed.
635	<b>Chloroacetic acid; (Monochloroacetic acid)</b>	<b>79-11-8</b>	0.5	1.5	6.6	20	ppm	<b>Interim AEGL-2. See LEL formatting note.</b>
636	<b>Chloroacetone</b>	<b>78-95-5</b>	1	1	4.4	13	ppm	<b>Interim AEGL-2, -3.</b>
637	<b>Chloroacetonitrile</b>	<b>107-14-2</b>	1.5	4	32	67	ppm	<b>Interim AEGL-2, -3.</b>
638	<b>Chloroacetyl chloride</b>	<b>79-04-9</b>	0.04	0.04	1.6	52	ppm	<b>Interim AEGL-1, -2, -3. See LEL formatting note.</b>
639	Chloroallyl)-3,5,7-triaza-1-azoniaadamantane chloride, 1-(3-	4080-31-3	1	3	20	200	mg/m <sup>3</sup>	T-0, T-1 changed.
640	Chloroaniline, p-	106-47-8	0.5	1.5	10	300	mg/m <sup>3</sup>	T-0, T-1, T-2 changed. See LEL formatting note.

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
641	Chlorobenzene; (Benzene chloride)	108-90-7	75	75	750	1000	ppm	T-0, T-1, T-2 changed. See LEL formatting note.
642	Chlorobenzotrifluoride, 2-	88-16-4	6	20	125	500	mg/m <sup>3</sup>	
643	Chlorobenzylate; (4,4'-Dichloro-benzilic acid ethyl ester)	510-15-6	0.3	0.75	6	300	mg/m <sup>3</sup>	
644	<b>Chlorobenzylidene malononitrile, o-</b>	<b>2698-41-1</b>	0.005	0.005	0.1	3.25	mg/m <sup>3</sup>	<b>ERPG-1, -2, -3.</b>
645	Chlorobutane, 1-; (Butyl chloride)	109-69-3	7.5	25	150	750	ppm	Ignored inconsistent Russian TDlo, used NTP TDlo data. See LEL formatting note.
646	Chlorobutane, 2-; (Sec-butyl chloride)	78-86-4	0.4	1.25	7.5	3500	ppm	Added.
647	Chlorobutryl chloride, 4-	4635-59-0	2.5	7.5	50	250	mg/m <sup>3</sup>	Added.
648	Chlorocyclohexanol, trans-2-	6628-80-4	3.5	10	75	400	mg/m <sup>3</sup>	
649	Chlorocyclohexene; (4-Chlorocyclohexene)	930-65-4	20	60	500	<b>2500</b>	ppm	<b>SAR See LEL formatting note.</b>
650	Chlorodecane, 1-	1002-69-3	48.5	145	249	1250	ppm	TSCA listed, no toxicity data.

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
651	Chlorodiethylaluminum; (Diethylaluminum chloride)	96-10-6	8.94	26.82	200	500	mg/m <sup>3</sup>	SAX MW (110.56) incorrect. T-0, T-1, T-2 changed. See LEL formatting note.
652	Chlorodifluoromethane	75-45-6	1000	1250	7500	7500	ppm	
653	Chloroethanesulfonyl chloride, 2-	1622-32-8	1.25	3.5	25	150	mg/m <sup>3</sup>	
654	Chloroethyl chloroformate	627-11-2	4	12.5	20	20	mg/m <sup>3</sup>	
655	Chloroethyl vinyl ether, 2-; (Ethene, 2-chloroethoxy-)	110-75-8	0.25	0.75	5	25	ppm	.
656	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, CAS RN = 505-60-2.
657	<b>Chloroform</b>	<b>67-66-3</b>	2	2	64	3200	ppm	<b>AEGL-2, -3. See LEL formatting note.</b>
658	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. See LEL formatting note.
659	Chloro-m-cresol, 4-	59-50-7	7.5	20	150	500	mg/m <sup>3</sup>	
660	<b>Chloromethyl methyl ether</b>	<b>107-30-2</b>	0.075	0.25	0.47	2	ppm	<b>Interim AEGL-2, -3.</b>

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
661	Chloromethyl(trichloro)silane	1558-25-4	0.1	0.35	2	10	mg/m <sup>3</sup>	"MP: 111-112o mm" SAX, BP ex HC&P
662	Chloromethylated aminated styrene-divinylbenzene resin; (Bio-Rad AG1-X8 anion exchange resin, formate form)	60177-39-1	10	30	50	250	mg/m <sup>3</sup>	CAS RN changed from 81133-20-2, Listed in SAX and TSCA, no toxicity data found.
663	Chloro-methyl-isothiazolin-3-one, 5-	26172-55-4	0.2	0.6	1	1	mg/m <sup>3</sup>	Added. No pchem data found.
664	Chloronaphthalene, 1- (alpha)	90-13-1	6	20	125	500	mg/m <sup>3</sup>	
665	Chloronaphthalene, 2- (beta)	91-58-7	0.2	0.6	1	500	mg/m <sup>3</sup>	
666	Chloronitrobenzene, p- ; (p-Nitrochlorobenzene)	100-00-5	1	1.92	100	100	mg/m <sup>3</sup>	T-2 changed.
667	Chloroperoxybenzoic acid, 3-	937-14-4	0.3	1	6	35	mg/m <sup>3</sup>	
668	Chlorophacinone	3691-35-8	0.2	0.6	1	1	mg/m <sup>3</sup>	
669	Chlorophenol, 4-; (p-Chlorophenol)	106-48-9	250	400	400	400	mg/m <sup>3</sup>	Severe irritant. Inconsistent rat LC50 not used. See LEL formatting note.
670	Chlorophenol, m-	108-43-0	0.3	0.75	6	250	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
671	Chlorophenol, o-	95-57-8	0.4	1	7.5	50	ppm	
672	Chlorophenyl phenyl ether, 4-	7005-72-3	0.0025	0.0075	0.05	0.25	mg/m <sup>3</sup>	
673	Chlorophenyl thiourea, 2-	5344-82-1	0.75	2.5	4.6	4.6	mg/m <sup>3</sup>	
674	Chloropicrin/Methyl bromide mixture	8004-09-9	2	3	12.5	60	mg/m <sup>3</sup>	0.15 to 0.85 mixture assumed
675	Chloropicrin/Methyl chloride mixture	z-0007	2	2	6	30	mg/m <sup>3</sup>	0.30 to 0.70 mixture assumed
676	<b>Chloropicrin; (Trichloronitromethane)</b>	<b>76-06-2</b>	0.1	0.1	0.3	1.5	ppm	<b>ERPG-1, -2, -3</b>
677	Chloroprene; (Neoprene)	126-99-8	1	1	1	300	ppm	See LEL formatting note.
678	Chloropropanol, 3-; (1-Propanol, 3-chloro)	627-30-5	10	30	200	500	mg/m <sup>3</sup>	Name changed, synonym added, changed mouse to rat.
679	Chloropropionitrile, 3-	542-76-7	0.5	1.5	2.46	12.5	ppm	
680	Chloropropyl)trimethoxysilane, 3-; (3-(Trimethoxysilyl)propyl chloride)	2530-87-2	10	30	200	350	ppm	Added.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
681	Chloropropylene, 2-	557-98-2	1000	3000	<i>20000</i>	<u><i>35000</i></u>	ppm	See LEL formatting note.
682	Chloropropyl-n-octylsulfoxide, 3-	3569-57-1	1.5	5	8	500	mg/m <sup>3</sup>	
683	Chloro-p-toluenesulfonamide, sodium salt, n-; (Chloramine T) (see also SFV550)	127-65-1	2.5	7.5	50	250	mg/m <sup>3</sup>	T-0, T-1 changed.
684	Chlorosarin; (o-Isopropyl methylphosphonochloridate)	1445-76-7	0.0013	0.0035	0.006	0.022	ppm	Not found in databases. Treated as Sarin, CAS RN = 107-44-8 T-0, T-1 changed.
685	Chlorosoman; (o-Pinacolyl methylphosphonochloridate)	7040-57-5	0.03	0.075	0.6	3	ppm	RTECS toxicity data, no pchem data found.
686	<b>Chlorosulfonic acid; (Chlorosulfuric acid)</b>	<b>7790-94-5</b>	0.1	2	10	30	mg/m <sup>3</sup>	<b>ERPG-1, -2, -3.</b>
687	Chlorothalonil; (Tetrachloroisophthalonitrile)	1897-45-6	3	7.5	30	30	mg/m <sup>3</sup>	Added.
688	Chlorotoluene, 2-; (o-Chlorotoluene)	95-49-8	50	75	350	<i>1500</i>	ppm	T-2 changed. See LEL formatting note.
689	Chlorotoluene, 4-; (p-Tolyl chloride)	106-43-4	25	75	500	<i>2500</i>	ppm	See LEL formatting note.
690	Chlorotrifluoroethene, homopolymer	9002-83-9	0.015	0.04	0.3	500	mg/m <sup>3</sup>	Many synonyms, used first of multiple RTECS listings.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
691	<b>Chlorotrifluoroethylene</b>	<b>79-38-9</b>	5	20	100	300	ppm	<b>ERPG-1, -2, -3 See LEL formatting note.</b>
692	Chlorotrifluoromethane; (CFC-13)	75-72-9	1000	3000	5000	25000	ppm	
693	<b>Chlorovinylarsine dichloride; (Lewisite)</b>	<b>541-25-3</b>	0.12	0.12	0.12	0.74	mg/m <sup>3</sup>	<b>AEGL-2, -3.</b>
694	Chloroxuron	1982-47-4	2	6	10	500	mg/m <sup>3</sup>	
695	Chlorpyrifos; (Dursban)	2921-88-2	0.1	0.6	15	20	mg/m <sup>3</sup>	T-0, T-2, T-3 changed.
696	Chlorsulfuran	64902-72-3	0.125	0.35	2.5	500	mg/m <sup>3</sup>	SAX r LC50 > 5900 mg/m <sup>3</sup> .
697	Chlorthiophos	21923-23-9	0.35	1	7.8	7.8	mg/m <sup>3</sup>	RTECS CAS RN = 60238-56-4 data match SAX CAS RN = 21923-23-9 for which RTECS data are different
698	Chromates	13907-45-4	0.0096	0.288	0.5	28.8	mg/m <sup>3</sup>	New OSHA PEL-TWA. Minimum values, depending upon compound. All Ts changed.
699	Chromic acetate; (Chromium(III) acetate)	1066-30-4	2.2	6.61	11	110	mg/m <sup>3</sup>	All Ts changed.
700	Chromic acid ester	11115-74-5	0.0113	0.339	6	34	mg/m <sup>3</sup>	Added. New OSHA PEL-TWA.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
701	Chromic chloride; (Chromium(III) chloride)	10025-73-7	1.52	4.57	7.61	76.1	mg/m <sup>3</sup>	T-1 changed.
702	Chromic oxide (Chromium(III) oxide, chromium sesquioxide)	1308-38-9	0.731	15	36.5	36.5	mg/m <sup>3</sup>	All Ts changed.
703	Chromic sulfate; (Chromium(III) sulfate (2:3))	10101-53-8	1.89	2.5	15	94.3	mg/m <sup>3</sup>	All Ts changed.
704	Chromic trihydroxide; (Chromic(III) acid)	1308-14-1	0.991	1.25	10	49.5	mg/m <sup>3</sup>	
705	Chromic trioxide; (Chromium(VI) oxide (1:3))	1333-82-0	0.0096	0.0096	0.06	28.8	mg/m <sup>3</sup>	New OSHA PEL-TWA. Minimum values, depending upon compound. All Ts changed.
706	Chromic(VI) acid	7738-94-5	0.0113	0.339	6	34	mg/m <sup>3</sup>	New OSHA PEL-TWA. Minimum values, depending upon compound. All Ts changed.
707	Chromite; (Chromite (mineral))	1308-31-2	1.08	3.23	5.38	500	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
708	Chromium	7440-47-3	1	1.5	2.5	250	mg/m <sup>3</sup>	
709	Chromium nitrate	10103-47-6	4.74	14.2	23.7	237	mg/m <sup>3</sup>	RTECS listed, no toxicity or pchem data. All Ts changed.
710	Chromium nitrate nonahydrate	7789-02-8	3.85	11.5	20	192	mg/m <sup>3</sup>	T-0, T-1, T-3 changed.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
711	Chromium perchlorate, hydrated	13537-21-8	3.37	10.1	16.8	168	mg/m <sup>3</sup>	No toxicity or pchem data found. T-0, T-2, T-3 changed.
712	Chromium(III) acetate hydroxide	39430-51-8	2.4	7.21	12.5	120	mg/m <sup>3</sup>	TSCA listed. Chromium(III) acetate, CAS RN =1066-30-4, MW = 229.13, MF = Cr.3(C2.H4.O2). LANL MW = 603.3? T-0, T-1, T-3 changed.
713	Chromium(III) chloride, hexahydrate	10060-12-5	2.56	100	128	128	mg/m <sup>3</sup>	Not found in databases. ChemFinder pchem, irritation data. All Ts changed.
714	Chromium(III) fluoride	7788-97-8	1.05	3.14	5.24	52.4	mg/m <sup>3</sup>	All Ts changed.
715	Chromium(III) nitrate	13548-38-4	2.29	6.87	11.4	114	mg/m <sup>3</sup>	All Ts changed.
716	Chromium(III) oxide hydroxide; (Chromium oxyhydroxide)	20770-05-2	0.817	1	7.5	40.9	mg/m <sup>3</sup>	TSCA listed, no toxicity data. T-0, T-2, T-3 changed.
717	Chromium(III) potassium sulfate (1:1:2), dodecahydrate	7788-99-0	4.8	14.4	40	240	mg/m <sup>3</sup>	All Ts changed.
718	Chromium(VI) hydroxide	12626-43-6	0.005	0.03	0.1	15	mg/m <sup>3</sup>	Used Cr(VI) limits, not SAR. T-0 changed.
719	Chromous chloride; (Chromium(II) chloride (1:2))	10049-05-5	1.18	3.55	6	500	mg/m <sup>3</sup>	T-0 changed.
720	Chrysene (coal tar volatile)	218-01-9	0.2	0.6	1	80	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
721	Cinnamaldehyde	104-55-2	1.25	4	30	500	mg/m <sup>3</sup>	
722	Cinnamaldehyde, (E); (trans-Cinnamaldehyde)	14371-10-9	0.075	0.25	2	250	ppm	
723	Citric acid	77-92-9	12.5	35	250	<b>500</b>	mg/m <sup>3</sup>	T-0, T-1, T-2 changed. See LEL formatting note.
724	Citric acid monohydrate	5949-29-1	1.5	4	30	150	mg/m <sup>3</sup>	
725	Citric acid, trisodium salt, dihydrate	6132-04-3	6	20	125	500	mg/m <sup>3</sup>	Used Trisodium citrate, CAS RN = 68-04-2, SAX TNL000
726	Coal tar pitch volatiles; (Particulate polycyclic aromatic hydrocarbons)	65996-93-2	0.2	0.6	12.5	80	mg/m <sup>3</sup>	
727	Coal tar, aerosol	8007-45-2a	0.1	1.25	7.5	40	mg/m <sup>3</sup>	
728	Coal tar; (Coal tar volatiles)	8007-45-2b	0.2	80	80	80	mg/m <sup>3</sup>	T-1, T-2 changed.
729	Cobalt	7440-48-4	0.1	3	20	20	mg/m <sup>3</sup>	T-1 changed.
730	Cobalt acetate tetrahydrate; (Cobaltous acetate tetrahydrate)	6147-53-1	3	7.5	60	300	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
731	Cobalt carbonyl	10210-68-1	0.27	0.27	27	60	mg/m <sup>3</sup>	T-2 changed.
732	Cobalt chloride	7646-79-9	0.0441	0.132	25	500	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
733	<b>Cobalt hydrocarbonyl</b>	<b>16842-03-8</b>	0.13	0.13	0.13	0.42	mg/m <sup>3</sup>	<b>ERPG-2, -3</b>
734	Cobalt hydroxide	21041-93-0	0.0315	0.0946	0.158	0.75	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
735	Cobalt nitrate hexahydrate; (Cobaltous nitrate hexahydrate)	10026-22-9	0.0988	0.296	0.5	98.8	mg/m <sup>3</sup>	
736	Cobalt nitrate; (Cobalt(II) nitrate)	10141-05-6	0.0621	0.186	12.5	150	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
737	Cobalt nitrite	z-0009	0.0512	0.154	0.256	1.25	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
738	Cobalt oxide	1308-06-1	0.136	0.136	0.136	500	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
739	Cobalt sulfate	10124-43-3	0.0526	0.158	0.263	150	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
740	Cobalt sulfate heptahydrate; (Cobalt(II) sulfate(1:1), heptahydrate)	10026-24-1	0.0954	0.286	250	250	mg/m <sup>3</sup>	RTECS listed, no toxicity data. T-0, T-1, T-2 changed.

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
741	Cobalt tetraphenylporphine	14172-90-8	10	30	50	250	mg/m <sup>3</sup>	No toxicity data found.
742	Cobalt(II) chloride hexahydrate	7791-13-1	0.0808	0.242	20	80.8	mg/m <sup>3</sup>	All Ts changed.
743	Cobalt(II) oxide	1307-96-6	0.127	0.127	20	75	mg/m <sup>3</sup>	See also CND020: Co3O4, CND825: Co2O3 T-0, T-1, T-2 changed.
744	Cobalt(ii) perchlorate, hexahydrate	13478-33-6	0.124	0.373	0.621	60	mg/m <sup>3</sup>	Added. No pchem data found.
745	Cobalt(II) sulfate hydrate	60459-08-7	0.0587	0.176	0.3	294	mg/m <sup>3</sup>	Not found in databases. T-0, T-1 changed.
746	Cobalt, ((2,2'-(1,2-ethanediybis(nitrilomethylidyne))bis(6-fluorophenolato))(2-)-N,N',O,O')-	62207-76-5	0.15	0.4	3	15	mg/m <sup>3</sup>	Name corrected. SAX name = "n,n'Ethylene bis(3-fluorosalicylideneiminato)cobalt(II)"
747	Cobaltous bromide; (Cobalt(II) bromide)	7789-43-7	0.0742	0.223	0.371	150	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
748	Cobaltous carbonate	513-79-1	0.0404	0.121	0.202	250	mg/m <sup>3</sup>	T-0, T-1 changed.
749	Colchicine	64-86-8	0.04	0.125	0.9	0.9	mg/m <sup>3</sup>	
750	Copper	7440-50-8	1	1	1	100	mg/m <sup>3</sup>	T-1, T-2 changed.

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
751	Copper cyanide	544-92-3	1.41	4.23	7.05	25	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
752	Copper hydroxide	20427-59-2	1.54	4.61	7.68	400	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
753	Copper nitrate; (Cupric nitrate)	3251-23-8	0.148	0.444	60	295	mg/m <sup>3</sup>	T-0, T-1 changed.
754	Copper oxide	1317-39-1	0.113	3.38	15	113	mg/m <sup>3</sup>	All Ts changed,
755	Copper sulfate	7758-98-7	2.51	2.51	6	40	mg/m <sup>3</sup>	T-0, T-1 changed.
756	Copper(I) chloride; (Cuprous chloride)	7758-89-6	0.0779	0.234	0.4	60	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
757	Copper(I) sulfide	22205-45-4	1.25	3.76	6.26	30	mg/m <sup>3</sup>	T-1, T-2 changed.
758	Copper(II) carbonate hydroxide (2:1:2)	12069-69-1	0.174	0.522	0.87	174	mg/m <sup>3</sup>	All Ts changed.
759	Copper(II) acetate monohydrate	6046-93-1	0.314	7.5	60	300	mg/m <sup>3</sup>	T-0 changed.
760	Copper(II) chloride (1:2); (Cupric chloride)	7447-39-4	0.106	0.317	0.529	3	mg/m <sup>3</sup>	All Ts changed.

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
761	Copper(II) chloride dihydrate; (Cupric chloride)	10125-13-0	0.134	0.402	0.671	268	mg/m <sup>3</sup>	See CAS RN 7447-39-4, SAX No. CNK500, Copper(II) chloride (1:2). All Ts changed.
762	Copper(II) oxalate	814-91-5	2.42	7.25	12.5	242	mg/m <sup>3</sup>	T-0, T-1, T-3 changed.
763	Copper(II) perchlorate, dihydrate	17031-32-2	4.7	14.1	23.5	23.5	mg/m <sup>3</sup>	No pchem data found. All Ts changed.
764	Copper(II) sulfate pentahydrate	7758-99-8	0.393	1.18	150	200	mg/m <sup>3</sup>	T-1, T-2 changed.
765	Copper(II) sulfide	1317-40-4	1.5	4.51	7.52	150	mg/m <sup>3</sup>	T-1 changed.
766	Corn oil	8001-30-7	200	500	500	500	mg/m <sup>3</sup>	Added. Rat LD50 > 100 mL/kg, TD lo data are inconsistent.
767	Coumaphos	56-72-4	0.5	1.5	30	125	mg/m <sup>3</sup>	New TLV-TWA, T-0, T-1 changed.
768	Coumarin	91-64-5	0.025	0.075	0.6	125	mg/m <sup>3</sup>	
769	Coumatetralyl; (Endrocide)	5836-29-3	3	10	16.5	16.5	mg/m <sup>3</sup>	
770	Creosote (coal tar)	8001-58-9	0.2	0.6	80	80	mg/m <sup>3</sup>	

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
771	Cresols	1319-77-3	5	15	24.9	250	ppm	See LEL formatting note.
772	Cresyl violet acetate	10510-54-0	10	30	50	250	mg/m <sup>3</sup>	Not found in databases
773	Crimidine; (Castrix)	535-89-7	0.25	0.75	1.2	1.2	mg/m <sup>3</sup>	
774	Cristobalite	14464-46-1	0.05	0.15	7.5	25	mg/m <sup>3</sup>	T-2 changed.
775	Crocidolite	12001-28-4	0.005	0.015	5	250	mg/m <sup>3</sup>	
776	<b>Crotonaldehyde</b>	<b>4170-30-3</b>	0.19	0.19	4.4	14	ppm	<b>Interim AEGL-1, -2, -3 See LEL formatting note.</b>
777	<b>Crotonaldehyde, trans-</b>	<b>123-73-9</b>	0.06	0.19	4.4	14	ppm	<b>Interim AEGL-1, -2, -3. See LEL formatting note.</b>
778	Crotonic Acid	3724-65-0	4	12.5	75	400	mg/m <sup>3</sup>	
779	Crystal violet; (Aniline violet)	548-62-9	0.075	0.25	1.5	150	mg/m <sup>3</sup>	Added.
780	Cs7SB; (1-(2,2,3,3-tetrafluoropropoxy),3-(4-sec-butylphenoxy)-2-propanol)	308362-88-1	11.1	30	200	500	mg/m <sup>3</sup>	Added. Not found in databases. MF, MW from MSDS.

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

**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
781	Cumene hydroperoxide; (Isopropylbenzene hydroperoxide)	80-15-9	1	5	20	20	ppm	Human TClo = 0.02 mg/m <sup>3</sup> ignored. ALL Ts changed. See LEL formatting note.
782	<b>Cumene; (Isopropyl benzene)</b>	<b>98-82-8</b>	50	50	300	730	ppm	<b>Interim AEGL-1, -2, -3. See LEL formatting note.</b>
783	Cumamol methylcarbamate, m-; (3-(1-methylethyl)phenol methylcarbamate)	64-00-6	3	10	16	16	mg/m <sup>3</sup>	Synonym corrected.
784	Cupferron; (Ammonium-n-nitrosophenylhydroxylamine)	135-20-6	7.5	25	75	75	mg/m <sup>3</sup>	
785	Cupric acetate, anhydrous; (Copper acetate)	142-71-2	0.143	0.429	3.5	200	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
786	Cupric nitrate hemipentahydrate	19004-19-4	3.8	11.4	19	380	mg/m <sup>3</sup>	All Ts changed.
787	Cupric nitrite	14984-71-5	0.122	0.184	0.6	60	mg/m <sup>3</sup>	CAS RN in TSCA, MF = Cu.2 H-N-O2. T-0, T-1 changed. SAR
788	Cupric oxide	1317-38-0	0.125	0.376	0.626	125	mg/m <sup>3</sup>	T-1, T-2 changed.
789	Cyanamide	420-04-2	2	6	30	35	mg/m <sup>3</sup>	T-2 changed.
790	Cyanic acid; (Hydrogen cyanate)	420-05-3	0.04	0.1	0.75	4	ppm	Added. No toxicity data found, pchem data ex HC&P. Lewis' Toxicology states "strong irritant, lacrimator & vesicant". HHR assigned.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
791	Cyanide	57-12-5	5	5	5	25	mg/m <sup>3</sup>	
792	Cyanoacetamide	107-91-5	6	20	150	500	mg/m <sup>3</sup>	
793	Cyanogen	460-19-5	10	10	10	15	ppm	See LEL formatting note.
794	Cyanogen bromide	506-68-3	20.4	44	44	44	mg/m <sup>3</sup>	
795	<b>Cyanogen chloride</b>	<b>506-77-4</b>	0.3	0.3	0.4	4	ppm	<b>ERPG-2, -3</b>
796	Cyanogen iodide	506-78-5	35	100	180	180	mg/m <sup>3</sup>	
797	Cyanoguanidene	461-58-5	0.5	1.5	10	200	mg/m <sup>3</sup>	
798	Cyanophos	2636-26-2	1.25	3.500	25	25	mg/m <sup>3</sup>	CN limits not used
799	Cyanuric acid; (1,3,5-Triazine-2,4,6-triol)	108-80-5	10	10	25	500	mg/m <sup>3</sup>	WEEL-TWA added. T-0, T-1 changed.
800	Cyanuric fluoride; (2,4,6-Trifluoro-s-triazine)	675-14-9	0.17	0.17	0.17	74.8	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
801	Cyclohexane	110-82-7	300	300	500	<i>1300</i>	ppm	TLV-TWA changed, T-1, T-2 changed. See LEL formatting note.
802	Cyclohexane-1,2-dinitrilotetraacetic acid, trans-; (CyDTA)	13291-61-7	10	30	50	250	mg/m <sup>3</sup>	No tox data except irritation and physical data from ChemFinder vendor catalog.
803	Cyclohexanedimethanol, cis and trans, 1,4-	105-08-8	12.5	40	250	500	mg/m <sup>3</sup>	
804	Cyclohexanol	108-93-0	50	50	50	400	ppm	See LEL formatting note.
805	Cyclohexanone; (Ketoexamethylene)	108-94-1	50	50	50	700	ppm	See LEL formatting note.
806	Cyclohexene	110-83-8	300	300	500	<i>2000</i>	ppm	See LEL formatting note.
807	Cycloheximide	66-81-9	0.1	0.3	2	2	mg/m <sup>3</sup>	
808	Cyclohexyl methyl phosphonic acid	1932-60-1	10	30	50	250	mg/m <sup>3</sup>	Not found in databases. MSDS pchem data.
809	<b>Cyclohexylamine</b>	<b>108-91-8</b>	1.8	1.8	8.6	30	ppm	<b>Final AEGL-1, -2, -3 See LEL formatting note.</b>
810	Cyclohexylamino)-1-propanesulfonic acid, 3-; (CAPS)	1135-40-6	1.25	4	25	125	mg/m <sup>3</sup>	Added.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
811	Cyclohexylethanol, 2-	4442-79-9	4	10	75	400	mg/m <sup>3</sup>	
812	Cyclooctadiene, 1,5-	111-78-4	100	300	<b><i>2000</i></b>	<b><i><u>10000</u></i></b>	ppm	See LEL formatting note.
813	Cyclooctane	292-64-8	20	60	400	2000	ppm	Added. In HC&P, ChemFinder, no toxicity data.
814	Cyclooctatetraene, 1,3,5,7-	629-20-9	65000	65000	230000	400000	ppm	TSCA listed. Simple asphyxiant. All Ts changed.
815	Cyclooctene, cis-	931-87-3	3.5	10	60	350	mg/m <sup>3</sup>	TSCA listed, no toxicity data, assumed HHR =3.
816	Cyclopentane	287-92-3	600	<b><i>1800</i></b>	<b><i>3840</i></b>	<b><i><u>15000</u></i></b>	ppm	T-2 changed. See LEL formatting note.
817	Cyclopentanone	120-92-3	25	25	125	600	ppm	Added.
818	Cyclopropane	75-19-4	200	600	<b><i>4000</i></b>	<b><i><u>60000</u></i></b>	ppm	Additional toxicity data found, T-0, T-1, T-2 changed. See LEL formatting note.
819	Cyclotetramethylene tetranitramine; (HMX)	2691-41-0	0.04	0.125	0.75	500	mg/m <sup>3</sup>	
820	Cyclotol; (RDX-TNT mixture)	z-0010	0.2	3	250	250	mg/m <sup>3</sup>	2,4,6-Trinitrotoluene mixed with Hexahydro-1,3,5-trinitro-1,3,5-triazine. See PBX (RTECS tox data). T-2 changed.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
821	Cyclotrimethylenetrinitramine; (RDX or Cyclonite)	121-82-4	0.5	3	40	40	mg/m <sup>3</sup>	CAS RN also used for RDX and HMX mixtures. T-2 changed.
822	Cytidine monophosphate; (Cytidine 5-monophosphate free acid)	63-37-6	7.5	25	150	500	mg/m <sup>3</sup>	
823	Dawsonite; (Crystalline dehydroxy sodium aluminum, carbonate)	12011-76-6	3.5	10	150	500	mg/m <sup>3</sup>	<b>SAR</b>
824	DDD (1,1-bis(4-Chlorophenyl)-2,2-dichloroethane)	72-54-8	12.5	35	250	500	mg/m <sup>3</sup>	Human data found, all Ts changed.
825	DDE; (2,2-bis(p-Chlorophenyl)-1,1-dichloroethylene)	72-55-9	4	12.5	75	400	mg/m <sup>3</sup>	Name corrected. PNOS deleted, T-0, T-1, T-2 changed.
826	DDT (Dichlorodiphenyltrichloroethane)	50-29-3	1	1	2	500	mg/m <sup>3</sup>	T-1, T-2 changed.
827	DEAE SEPHAROSE CL-6B	62610-50-8	10	30	50	250	mg/m <sup>3</sup>	Not found in databases.
828	Decaborane	17702-41-9	0.3	0.75	10	15	mg/m <sup>3</sup>	
829	Decafluoropentane, 1,1,1,2,3,4,4,5,5,5-	138495-42-8	200	200	400	1000	ppm	MSDS HHR, exposure limits, toxicity data.
830	Decahydronaphthalene	91-17-8	0.5	1.5	10	75	ppm	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
831	Decahydronaphthalene, cis-; (cis-Decalin)	493-01-6	0.5	1.5	10	75	ppm	SAX has CAS RN = 91-17-8 for generic Decalin. HC&P has 493-01-6 for "cis", 493-02-7 for "trans"
832	Decahydronaphthalene, trans-; (trans-Decalin)	493-02-7	0.5	1.5	10	75	ppm	SAX has CAS RN = 91-17-8 for generic Decalin. HC&P has 493-01-6 for "cis", 493-02-7 for "trans"
833	Decamethylcyclopentasiloxane	541-02-6	15	50	350	500	mg/m <sup>3</sup>	Synonym = Silicone (several formulations). T-0, T-1, T-2 changed.
834	Decanal	112-31-2	2.5	7.5	50	250	ppm	See LEL formatting note.
835	Decane	124-18-5	0.06	0.2	1.25	<i>5000</i>	ppm	See LEL formatting note.
836	Decene, 1-, homopolymer, hydrogenated	68037-01-4	10	30	50	250	mg/m <sup>3</sup>	Could not find previously used PEL- and TLV-TWA
837	Decyl alcohol; (1-Decanol)	112-30-1	4	12.5	75	500	mg/m <sup>3</sup>	
838	Demeton	8065-48-3	0.1	0.15	2	10	mg/m <sup>3</sup>	SAX name = "Demeton-o+demeton-s"; MW is 258.34 in some references. See LEL formatting note.
839	Demeton-s-methyl	919-86-8	0.05	0.15	5	200	mg/m <sup>3</sup>	
840	Deoxyribonucleic acid; (DNA)	9007-49-2	12.5	35	250	500	mg/m <sup>3</sup>	Added. No pchem data found.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
841	Deuterium	7782-39-0	<u><i>65000</i></u>	<u><i>65000</i></u>	<u><i>230000</i></u>	<u><i>400000</i></u>	ppm	All Ts changed. See LEL formatting note.
842	Deuterium oxide; (Heavy water)	7789-20-0	2000	6000	40000	200000	ppm	
843	Deuteriochloric acid; (Deuterium chloride)	7698-05-7	2	2	5	50	ppm	Added. MSDS data.
844	Dextran	9004-54-0	0.35	1	6	500	mg/m <sup>3</sup>	
845	Dextran sulfate sodium	9011-18-1	15	40	300	500	mg/m <sup>3</sup>	
846	Di(ethylene glycol) diacrylate	4074-88-8	1	3	20	100	mg/m <sup>3</sup>	Added.
847	Di-2-ethylhexyl adipate	103-23-1	50	<i>150</i>	<i>500</i>	<i>500</i>	mg/m <sup>3</sup>	See LEL formatting note.
848	Diacetoxydibutyl stannane	1067-33-0	0.296	0.592	7.5	73.9	mg/m <sup>3</sup>	T-2 changed.
849	Diacetyl peroxide; (Acetyl peroxide)	110-22-5	7.5	20	150	500	mg/m <sup>3</sup>	
850	Dialifor	10311-84-9	1	3	5	5	mg/m <sup>3</sup>	

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
851	Diallyl phthalate	131-17-9	1	1	300	300	mg/m <sup>3</sup>	
852	Diallyldimethylammonium chloride	7398-69-8	25	75	500	500	mg/m <sup>3</sup>	Added.
853	Diallyldimethylammonium chloride polymer	26062-79-3	12.5	35	250	500	mg/m <sup>3</sup>	
854	Diaminodiphenyl ether, 4,4'-; (4,4'-Oxydianiline)	101-80-4	0.5	1.5	10	300	mg/m <sup>3</sup>	
855	Diaminodiphenylsulfone; (4,4'-Sulfonyldianiline)	80-08-0	1	3	20	400	mg/m <sup>3</sup>	
856	Diaminodipropylamine, 3,3-; (Aminobis(propylamine))	56-18-8	0.6	1.5	12.5	60	ppm	
857	Diaminopyridine, 2,6-	141-86-6	0.4	1.25	7.5	40	mg/m <sup>3</sup>	Added.
858	Diammonium molybdate	27546-07-2	8.81	8.81	8.81	500	mg/m <sup>3</sup>	Added. TSCA listed, no pchem data. Assumed soluble compound.
859	Diamond	7782-40-3	7.5	20	150	500	mg/m <sup>3</sup>	
860	Dianisidine dihydrochloride, o-; (3,3'-Dimethoxybenzidine dihydrochloride)	20325-40-0	0.1	0.35	2.5	7.5	mg/m <sup>3</sup>	

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
861	Diatomaceous earth (flux calcinated; Filter agent, celite)	68895-54-9	0.3	0.9	1.5	500	mg/m <sup>3</sup>	TLV-TWA withdrawn, T-0, T-1, T-2 changed.
862	Diatomaceous earth; (Silica-amorphous diatomaceous earth (uncalcined))	61790-53-2	6	18	30	500	mg/m <sup>3</sup>	PEL-TWA = 80 mg/m <sup>3</sup> / % SiO <sub>2</sub> . Duplicate deleted.
863	Diatomaceous silica, calcined	91053-39-3	0.3	0.9	1.5	500	mg/m <sup>3</sup>	TSCA listed. MAK for Silica-amorphous diatomaceous earth (calcined), T-3 changed.
864	Diazabicyclo(2,2,2)octane, 1,4-	280-57-9	1	3	20	500	mg/m <sup>3</sup>	
865	Diazabicyclo(5.4.0.)undec-7-ene, 1,8-	6674-22-2	1.5	5	35	150	mg/m <sup>3</sup>	Added, TSCA listed, no toxicity data found. MSDS HHR = 3. See LEL formatting note.
866	Diazoacetic acid; (Ethyl diazoacetate)	623-73-4	0.2	0.6	4	150	mg/m <sup>3</sup>	Added.
867	Diazomethane	334-88-3	0.2	0.6	2	2	ppm	
868	Dibenza(a,h)anthracene	53-70-3	0.0008	0.0025	0.015	15	mg/m <sup>3</sup>	
869	Dibenzo(a,e)pyrene; (Naphtho(1,2,3,4-def)chrysene)	192-65-4	0.005	0.015	0.1	0.5	mg/m <sup>3</sup>	
870	Dibenzofuran	132-64-9	10	30	50	250	mg/m <sup>3</sup>	

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
871	Dibenzo-p-dioxin	262-12-4	1.5	4	30	500	mg/m <sup>3</sup>	
872	<b>Diborane</b>	<b>19287-45-7</b>	0.1	0.15	1	3.7	ppm	<b>Final AEGL-2, -3. See LEL formatting note.</b>
873	Dibromo-3-chloropropane, 1,2-; (DBCP)	96-12-8	0.001	0.075	0.5	15	ppm	T-1, T-2 changed.
874	Dibromo-4-nitrophenol, 2,6-	99-28-5	0.04	0.1	0.75	4	ppm	
875	Dibromochloromethane; (Chlorodibromomethane)	124-48-1	2	6	40	150	mg/m <sup>3</sup>	
876	Dibromohexane, 1,6-	629-03-8	1	3.5	20	100	mg/m <sup>3</sup>	Added.
877	Dibromomethane; (Methylene dibromide)	74-95-3	10	30	200	1250	ppm	Duplicate deleted. Original units changed to ppm.
878	Dibromophenol, 2,6-	608-33-3	0.5	0.5	2.5	2.5	mg/m <sup>3</sup>	<b>SAR</b>
879	Dibromopropane, 1,3-	109-64-8	2	6	40	200	mg/m <sup>3</sup>	
880	Dibromotetrafluoroethane; (Halon 2402)	124-73-2	150	500	3500	15000	ppm	

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
881	Dibutyl (2-ethylhexyl)phosphate	z-0011	0.2	0.6	0.7	0.7	ppm	<b>SAR</b>
882	Dibutyl butylphosphonate	78-46-6	0.04	0.125	1	5	ppm	
883	Dibutyl peroxide, tert-	110-05-4	1.25	4	25	400	ppm	See LEL formatting note.
884	Dibutyl phosphate	107-66-4	1	2	5	30	ppm	
885	Dibutyl phosphite	1809-19-4	12.5	40	250	500	mg/m <sup>3</sup>	
886	Dibutyl phthalate	84-74-2	5	15	<b>500</b>	<b>500</b>	mg/m <sup>3</sup>	T-2 changed. See LEL formatting note.
887	Dibutylboron triflate; (Dibutylboryl trifluoromethanesulfonate)	60669-69-4	12	36.1	60.1	500	mg/m <sup>3</sup>	Added. Not found in databases, no useful information in MSDS.
888	Dibutylhexamethylenediamine, N,N'-	4835-11-4	1	3	22	75	mg/m <sup>3</sup>	T-2 changed.
889	Dichloran; (2,6-Dichloro-4-nitroaniline; Resisan)	99-30-9	0.004	0.0125	0.075	500	mg/m <sup>3</sup>	
890	Dichloro(4,4-dimethylzinc - 5(((methylamino)carbonyl oxy)-imino)pentanenitrile), (trans-4)-; (Ethienocarb)	58270-08-9	1.5	5	9	9	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
891	<b>Dichloro-1,1,1-trifluoroethane, 2,2-; (HCFC-123)</b>	<b>306-83-2</b>	50	150	1000	10000	ppm	Added. <b>New ERPG-2, -3</b>
892	<b>Dichloro-1-fluoroethane, 1,1-; (HCFC-141b; Freon 141)</b>	<b>1717-00-6</b>	500	1000	1700	3000	ppm	<b>Final AEGL-1, -2, -3. See LEL formatting note.</b>
893	Dichloro-2-butene 1,4-	764-41-0	0.005	0.015	20	125	ppm	T-2 changed. See LEL formatting note.
894	Dichloro-2-propanol, 1,3-	96-23-1	6	15	50	50	ppm	
895	Dichloro-2-trifluoromethylbenzimidazole, 4,5-; (Chloroflurazole)	3615-21-2	2.5	7.5	13	13	mg/m <sup>3</sup>	
896	Dichloroacetic acid	79-43-6	0.5	10	75	200	ppm	T-1, T-2 changed. See LEL formatting note.
897	<b>Dichloroacetyl chloride</b>	<b>79-36-7</b>	0.0125	0.04	1.6	52	ppm	<b>Interim AEGL-1, -2, -3. All Ts changed.</b>
898	Dichloroacetylene	7572-29-4	0.1	0.1	4	4	ppm	
899	Dichloroamine; (Chlorimide)	3400-09-7	0.25	0.75	6	30	ppm	
900	Dichlorobenzene, m-	541-73-1	0.75	2	15	75	ppm	See LEL formatting note.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
901	Dichlorobenzene, o-	95-50-1	25	50	50	200	ppm	See LEL formatting note.
902	Dichlorobenzene, p-	106-46-7	75	75	75	150	ppm	T-1, T-2 changed. See LEL formatting note.
903	Dichlorobenzidene 3,3'-	91-94-1	0.2	0.6	4	200	ppm	
904	Dichlorocyclohexane, 1,1-	2108-92-1	0.25	0.75	6	30	ppm	<b>SAR</b>
905	Dichlorocyclohexane, trans-1,2-	822-86-6	75	250	500	500	mg/m <sup>3</sup>	In H&N, used chlorocyclohexane, CAS RN 542-18-7
906	Dichlorodifluoromethane; (Freon 12, CFC 12)	75-71-8	1000	3000	10000	15000	ppm	
907	Dichloroethanol acetate, 1,2-	10140-87-1	0.35	1	1.71	6	ppm	
908	Dichloroethyl ether; (1,1'-Oxybis(2-chloro)ethane)	111-44-4	5	10	25.7	100	ppm	See LEL formatting note.
909	Dichloroethylaluminum	563-43-9	9.41	9.41	9.41	9.41	mg/m <sup>3</sup>	All Ts changed. Alkylaluminums
910	Dichloroethylbenzene; (Ethylchlorobenzene)	1331-29-9	20	60	500	500	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
911	Dichloroethylene, 1,2-	540-59-0	200	600	1000	1000	ppm	See LEL formatting note.
912	<b>Dichloroethylene, cis-1,2-</b>	<b>156-59-2</b>	140	140	500	850	ppm	<b>Interim AEGL-1, -2, -3. See LEL formatting note.</b>
913	<b>Dichloroethylene, cis-and trans-1,2-</b>	<b>156-60-5</b>	200	280	1000	1700	ppm	<b>Interim AEGL-1, -2, -3. AEGL name used. T-0, T-3 changed. See LEL formatting note.</b>
914	Dichlorofluoromethane; (Freon 21, CFC 21)	75-43-4	10	30	100	5000	ppm	PEL-TWA not used. T-2 changed.
915	Dichlorohexane, 1,2-	2162-92-7	0.25	0.75	6	30	ppm	<b>SAR</b>
916	Dichloroisopropyl ether	108-60-1	3.5	10	75	350	ppm	See LEL formatting note.
917	Dichloromethane-D2	1665-00-5	25	200	750	<b>4000</b>	ppm	Added. Not found in data bases. Used TEELs from methylene chloride, CAS RN 75-09-2, MSDS data. See LEL formatting note.
918	Dichloromethoxy ethane; (bis(2-Chloroethoxy)methane)	111-91-1	0.6	2	6	6	ppm	
919	<b>Dichloromethyl ether; (bis(Chloromethyl)ether)</b>	<b>542-88-1</b>	0.001	0.015	0.1	0.5	ppm	<b>ERPG-2, -3. T-1 changed.</b>
920	Dichloromethylphenylsilane	149-74-6	1	3	20	20	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
921	Dichloromethylphosphine; (Methylphosphonous dichloride)	676-83-5	0.1	0.3	2	10	ppm	All Ts changed.
922	Dichlorophene	97-23-4	6	15	125	500	mg/m <sup>3</sup>	
923	<b>Dichlorophenol, 2,4-</b>	<b>120-83-2</b>	0.2	0.2	2	20	ppm	<b>ERPG-1, -2, -3</b>
924	Dichlorophenol, 2,6-	87-65-0	1.5	5	35	150	mg/m <sup>3</sup>	PNOS deleted, T-0, T-1 changed.
925	Dichlorophenoxyacetic acid, 2,4-; (2,4-D salts and esters)	94-75-7	10	10	40	100	mg/m <sup>3</sup>	
926	Dichloropropane	26638-19-7	10	300	400	400	ppm	Used Propylene dichloride (78-87-5). T-0, T-1, T-2 changed. See LEL formatting note.
927	Dichloropropane, 1,1-	78-99-9	4	12.5	75	400	ppm	Toxicity data used. T-0, T-1 changed. See LEL formatting note.
928	Dichloropropane, 1,2-; (Propylene dichloride)	78-87-5	10	300	400	400	ppm	Revised TLV-TWA, PEL-TWA ignored. T-0, T-1, T-2 changed. See LEL formatting note.
929	Dichloropropane, 1,3-	142-28-9	5	15	100	350	ppm	Toxicity data used, all Ts changed. See LEL formatting note.
930	Dichloropropane, 2,2-	594-20-7	4	12.5	75	400	ppm	Toxicity data used, T-0, T-1, T-2 changed. See LEL formatting note.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
931	Dichloropropene, 1,1-	563-58-6	1	3	5	200	ppm	
932	Dichloropropene, 1,2-	563-54-2	1.5	5	40	200	ppm	Name corrected, synonyms deleted, IDLH removed, all Ts changed. See LEL formatting note.
933	Dichloropropene, 1,3-	542-75-6	1	12.5	50	50	ppm	T-1, T-2 changed. See LEL formatting note.
934	Dichloropropene, 2,3-	78-88-6	0.5	1.5	10	50	ppm	See LEL formatting note.
935	Dichloropropene, cis-1,2-; (1,2-dichloro-1-propene, (Z)-)	6923-20-2	1.5	5	40	200	ppm	All Ts changed. See LEL formatting note.
936	Dichloropropene, cis-1,3-	10061-01-5	1	12.5	50	50	ppm	Mixture of cis- and trans- has CAS RN 542-75-6. T-1, T-2, T-3 changed.
937	Dichloropropene, trans-1,3-	10061-02-6	1	1.5	10	50	ppm	Not found, no toxicity data. Used cis-1,3 isomer (DGH200). T-1, T-2, T-3 changed.
938	Dichlorosilane	4109-96-0	12.5	35	75	75	ppm	See LEL formatting note.
939	Dichlorotetrafluoroethane	1320-37-2	1000	3000	5000	15000	ppm	Refrigerant also listed under CAS RN = 76-14-2
940	Dichlorotetrafluoroethane; (Freon 114, CFC 114)	76-14-2	1000	3000	10000	15000	ppm	

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
941	Dichlorovos; (Dichlorvos)	62-73-7	1	1	2.21	100	ppm	T-0, T-1 changed.
942	Dicrotophos	141-66-2	0.05	0.15	0.9	40	mg/m <sup>3</sup>	Revised TLV-TWA, changed T-0,T-1.
943	Dicyclohexano-18-crown-6	16069-36-6	0.2	0.6	4	75	mg/m <sup>3</sup>	
944	Dicyclohexyl; (Cyclohexylcyclohexane)	92-51-3	7.5	25	150	500	mg/m <sup>3</sup>	Added. TSCA listed, no toxicity data found. Assumed HHR = 2.
945	Dicyclohexylcarbodiimide	538-75-0	0.0035	0.01	0.06	100	mg/m <sup>3</sup>	
946	<b>Dicyclopentadiene</b>	<b>77-73-6</b>	0.01	0.01	5	75	ppm	<b>ERPG-1, -2, -3.</b> See LEL formatting note.
947	Dieldrin	60-57-1	0.25	0.75	2.5	50	mg/m <sup>3</sup>	
948	Diesel fuel marine; (Diesel fuel No. 4)	z-0012	100	350	500	500	mg/m <sup>3</sup>	TLV-TWA added. CAS RN not assigned (LANL). T-1 changed.
949	Diesel fuel marine; (Fuel oil No.2)	68476-30-2	100	100	100	500	mg/m <sup>3</sup>	TLV-TWA added T-0, T-1, T-2 changed.
950	Diesel fuels	68334-30-5	100	100	500	500	mg/m <sup>3</sup>	See LEL formatting note. T-0 changed.

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
951	Diethanolamine	111-42-2	2	150	300	300	mg/m <sup>3</sup>	T-1, T-2 changed. See LEL formatting note.
952	Diethenylbenzene, polymer with ethenylbenzene and ethenylethylbenzene, sulfonated; (DOWEX-50-X8 resin)	69011-20-7	10	30	50	250	mg/m <sup>3</sup>	No toxicity or pchem data found.
953	Diethoxydimethylsilane	78-62-6	4	12.5	100	500	ppm	See LEL formatting note.
954	Diethyl (methylthiomethyl) phosphonate	28460-01-7	0.05	0.15	1	5	ppm	Not found; LD50 based on Methyl demeton methyl, CAS RN=2587-90-8, MF=C5.H13.O3.P.S2. MSDS states irritant
955	<b>Diethyl benzene isomers; (Dowtherm J)</b>	<b>25340-17-4</b>	5	10	100	500	ppm	<b>New ERPG-1, -2, -3.</b>
956	Diethyl carbonate	105-58-8	3	7.5	60	300	ppm	Added. See LEL formatting note.
957	Diethyl chlorophosphate	814-49-3	0.4	1	8	8	mg/m <sup>3</sup>	
958	Diethyl ethylphosphonate	78-38-6	2	6	40	500	mg/m <sup>3</sup>	New RTECS toxicity data added. T-0, T-1, T-2 changed.
959	Diethyl malonate; (Ethyl malonate)	105-53-3	10	30	200	1000	ppm	See LEL formatting note.
960	Diethyl mercury	627-44-1	0.0129	0.0387	0.0516	2.58	mg/m <sup>3</sup>	As Hg, alkyl compounds. All Ts changed.

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
961	Diethyl methylphosphonate; (DEMP)	683-08-9	7.5	25	200	500	mg/m <sup>3</sup>	
962	Diethyl oxalate	95-92-1	1.5	5	35	150	mg/m <sup>3</sup>	
963	Diethyl phosphite	762-04-9	15	50	350	500	mg/m <sup>3</sup>	
964	Diethyl phthalate; (Ethyl phthalate)	84-66-2	5	15	100	500	mg/m <sup>3</sup>	T-2 changed. See LEL formatting note.
965	Diethyl pyrocarbonate	1609-47-8	10	30	200	500	mg/m <sup>3</sup>	Added.
966	Diethyl sulfate	64-67-5	0.075	0.2	1.5	25	ppm	Toxicity data changed, T-0, T-1, T-2 changed. See LEL formatting note.
967	Diethyl tartrate	87-91-2	10	30	50	250	mg/m <sup>3</sup>	Added. TSCA listed, no toxicity data found. No HHR found.
968	Diethyl telluride	627-54-3	0.1	0.3	6	10	mg/m <sup>3</sup>	Added.
969	Diethylamine	109-89-7	15	15	40	200	ppm	T-2 changed. See LEL formatting note.
970	Diethylaminoacetone	1620-14-0	0.5	1.5	10	50	ppm	<b>SAR</b>

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
971	Diethylaminopropylamine	104-78-9	2	6	50	250	mg/m <sup>3</sup>	Added. See LEL formatting note.
972	Diethylaniline, n,n-	91-66-7	3	10	60	350	mg/m <sup>3</sup>	
973	Diethylbenzene, m-	141-93-5	40	125	500	500	mg/m <sup>3</sup>	
974	Diethylbenzene, o-	135-01-3	1.5	5	35	500	mg/m <sup>3</sup>	
975	Diethylene glycol	111-46-6	2.31	40	200	200	ppm	T-1, T-2, T-3 changed. See LEL formatting note.
976	Diethylene glycol di(3-aminopropyl) ether; (Polyglycol diamine)	4246-51-9	15	50	350	500	mg/m <sup>3</sup>	
977	Diethylene glycol diacetate; (2,2'-oxybisethanol diacetate)	628-68-2	100	300	500	500	mg/m <sup>3</sup>	
978	Diethylene glycol dimethyl ether; (Bis(2-methoxy ethyl)ether)	111-96-6	5	15	25	400	ppm	See LEL formatting note.
979	Diethylene glycol hexyl ether; (n-Hexyl carbitol);	112-59-4	7.5	25	150	500	mg/m <sup>3</sup>	Added.
980	Diethylenetriamine	111-40-0	1	1	1.25	100	ppm	See LEL formatting note.

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
981	Diethylenetriaminepentaacetic acid	67-43-6	2	6	40	200	mg/m <sup>3</sup>	PNOS deleted, T-0, T-1, T-2 changed.
982	Diethylethanolamine, N,N-	100-37-8	10	10	20	100	ppm	2007 GOEV, RTECS. T-3 changed. See LEL formatting note.
983	Diethylphosphatoethyltriethoxy silane	757-44-8	75	200	500	500	mg/m <sup>3</sup>	
984	Diethylstilbestrol; ((E)-4,4-(1,2-diethyl-1,2-ethenediyl)bis-phenol, (E))	56-53-1	0.025	0.075	0.6	15	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
985	Diethylthiourea, n,n'-	105-55-5	0.6	1.5	12.5	125	mg/m <sup>3</sup>	
986	Diethylurea, 1,3-	623-76-7	5	15	100	600	ppm	See LEL formatting note.
987	Diethylzinc	557-20-0	1.89	3.78	3.78	10	ppm	Limits and LC50 based on SAX Safety Profile. T-0, T-1, T-2 changed.
988	Diethylaminoethanol	100-37-8	10	10	20	100	ppm	Added. NFPA HHR = 3. See LEL formatting note.
989	<b>Difluoroethane; (1,1-Difluoroethane; HFC 152a)</b>	<b>75-37-6</b>	1000	<b><i>10000</i></b>	<b><i>15000</i></b>	<b><i>25000</i></b>	ppm	<b>ERPG-1, -2, -3.</b> See LEL formatting note.
990	Digitoxin	71-63-6	0.0075	0.025	0.18	0.25	mg/m <sup>3</sup>	

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
991	Diglycidyl Ether	2238-07-5	0.1	0.5	10	10	ppm	
992	Diglycol monoethyl ether acetate; (Carbitol acetate)	112-15-2	40	125	500	500	mg/m <sup>3</sup>	
993	Digoxin	20830-75-5	0.04	0.125	0.2	0.35	mg/m <sup>3</sup>	T-3 changed.
994	Dihexyl((diethylcarbamoyl)methyl)phosphonate; (Dihexyl-N,N-diethylcarbamoylmethyl phosphonate)	7369-66-6	4	12.5	75	400	mg/m <sup>3</sup>	PNOS deleted, T-0, T-2 changed.
995	Dihydro-2(3H)-furanone; (4-Butanolide)	96-48-0	2	6	40	500	mg/m <sup>3</sup>	See LEL formatting note.
996	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.
997	Dihydro-3-(Nonenyl)-2,5-furandione	28928-97-4	10	30	50	250	mg/m <sup>3</sup>	TSCA, H&N listed, MFs differ, no toxicity data found, assumed nonvolatile.
998	Dihydro-4-methyl furan, 2,3-	34314-83-5	1.5	5	35	150	mg/m <sup>3</sup>	No toxicity data found, based on methylfuran
999	Dihydrogen hexachloroplatinate; (Chloroplatinic acid)	16941-12-1	0.0042	0.0126	1.5	8.4	mg/m <sup>3</sup>	Platinum soluble salts limits used. Synonym spelling corrected. All Ts changed.
1000	Dihydroxy-1,3-indandione, 2,2-; (Ninhydrin monohydrate)	485-47-2	0.3	1	6	35	mg/m <sup>3</sup>	

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1001	Dihydroxy-2-butene, 1,4-; (2-Butene-1,4-diol)	110-64-5	1.5	4	30	150	ppm	
1002	Dihydroxyanthraquinone, 1,8-	117-10-2	25	75	200	200	mg/m <sup>3</sup>	
1003	Dihydroxybenzoic acid, 2,4-	89-86-1	1	3	20	350	mg/m <sup>3</sup>	Mouse LD50 > 800 mg/kg
1004	Dihydroxynaphthalene-2,7-disulfonic acid, disodium salt dihydrate, 4,5-	5808-22-0	10	30	50	250	mg/m <sup>3</sup>	Chemfinder MF, MW. No toxicity data, MSDS pchem data.
1005	Diiodomethane; (Methylene iodide)	75-11-6	75	200	500	500	mg/m <sup>3</sup>	
1006	Diisoamylamine	544-00-3	5	15	25	125	ppm	Added. TSCA listed. No toxicity or HHR found.
1007	Diisobutyl ketone	108-83-8	50	50	50	500	ppm	IDLH added, T-3 changed. See LEL formatting note.
1008	Di-isobutylaluminum hydride; (Diisobutylhydroaluminum)	1191-15-7	10.5	31.6	52.7	1000	ppm	Added.
1009	Diisobutylamine	110-96-3	0.2	0.6	4	20	ppm	
1010	Diisopropyl methylphosphonate	1445-75-6	3.5	10	75	350	mg/m <sup>3</sup>	PNOS deleted, T-0, T-1, T-2 changed.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1011	Diisopropyl peroxydicarbonate	105-64-6	7.5	25	150	500	mg/m <sup>3</sup>	Spelling corrected.
1012	Diisopropylamine	108-18-9	5	6	40	200	ppm	T-2 changed. See LEL formatting note.
1013	Diisopropylamino)ethyl chloride hydrochloride, 2-(-	4261-68-1	0.0125	0.035	0.25	1.25	mg/m <sup>3</sup>	
1014	Diisopropylaminoethanol, 2-; (N,N-Diisopropyl ethanolamine)	96-80-0	2.5	7.5	50	250	mg/m <sup>3</sup>	
1015	Diisopropylaniline, 2,6-	24544-04-5	35	100	500	500	mg/m <sup>3</sup>	Added.
1016	Diisopropylbenzene, 1,3-	99-62-7	150	500	500	500	mg/m <sup>3</sup>	Added.
1017	Diisopropylethylamine, n,n-	7087-68-5	2	6	40	200	ppm	TSCA, HC&P, H&N listed, no toxicity data. HHR ex MSDS. All Ts changed.
1018	Diisopropylfluorophosphate; (Phosphorofluoridic acid, bis(1-methylethyl) ester)	55-91-4	0.75	2	3.6	3.6	mg/m <sup>3</sup>	
1019	Diisopropyl naphthalene; (Bis(isopropyl)naphthalene)	38640-62-9	12.5	40	300	500	mg/m <sup>3</sup>	
1020	<b>Diketene; (Ketene dimer)</b>	<b>674-82-8</b>	0.35	1	5	20	ppm	<b>ERPG-1, -2, -3 See LEL formatting note.</b>

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1021	Dilauroyl peroxide	105-74-8	0.003	0.01	0.06	0.35	mg/m <sup>3</sup>	All Ts changed.
1022	Dimefox; (bis(Dimethylamido)fluorophosphate))	115-26-4	0.2	0.6	1	1	mg/m <sup>3</sup>	One synonym deleted.
1023	Dimethoate	60-51-5	6	15	30	30	mg/m <sup>3</sup>	
1024	Dimethoxybenzene, 1,3-	151-10-0	3.5	10	75	400	mg/m <sup>3</sup>	
1025	Dimethoxybenzene, O-	91-16-7	3.5	10	75	400	mg/m <sup>3</sup>	
1026	Dimethoxybenzidine 3,3'-; (o-Dianisidine)	119-90-4	1.25	4	25	500	mg/m <sup>3</sup>	
1027	Dimethoxybutane, 1,3-	10143-66-5	7.5	25	150	750	ppm	See LEL formatting note.
1028	Dimethoxybutane, 2,2-	3453-99-4	7.5	20	150	750	ppm	Not found. Based on 1,3-dimethoxybutane. See LEL formatting note.
1029	Dimethoxydiphenylsilane	6843-66-9	0.15	0.5	3.5	15	mg/m <sup>3</sup>	Rat LC > 42 mg/m <sup>3</sup>
1030	Dimethoxyethane, 1,2-	110-71-4	3.5	10	75	1000	ppm	See LEL formatting note.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1031	Dimethoxypropane, 2,2-	77-76-9	0.4	1.25	7.5	40	ppm	Added. No toxicity data found.
1032	Dimethylglyoxime; (Diacetyldioxime)	95-45-4	2	6	40	200	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
1033	Dimethyl butane, 2,2-	75-83-2	500	510	510	<b>2500</b>	ppm	See LEL formatting note.
1034	Dimethyl carbamoyl chloride	79-44-7	0.2	0.6	4	100	ppm	
1035	Dimethyl carbonate	616-38-6	15	40	300	1500	ppm	
1036	Dimethyl cyclopentanol, 1,3-	19550-46-0	10	30	50	250	mg/m <sup>3</sup>	Not found in databases. MF, MW from ChemFinder.
1037	<b>Dimethyl disulfide</b>	<b>624-92-0</b>	0.0035	0.01	50	250	ppm	<b>ERPG-1, -2, -3 See LEL formatting note.</b>
1038	Dimethyl hydrogen phosphite	868-85-9	20	60	400	500	mg/m <sup>3</sup>	
1039	Dimethyl mercury	593-74-8	0.0115	0.0345	0.046	2.3	mg/m <sup>3</sup>	Alkyl mercury compound, as Hg/
1040	Dimethyl methylphosphonate; (DMMP)	756-79-6	100	350	500	500	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1041	Dimethyl phosphorochloridothioate	2524-03-0	1.5	4	32	150	mg/m <sup>3</sup>	
1042	Dimethyl siloxane; (Syltherm XLT; Silicone 360)	63148-62-9	15	50	350	500	mg/m <sup>3</sup>	Deleted PNOS. All Ts changed.
1043	<b>Dimethyl sulfate</b>	<b>77-78-1</b>	0.024	0.024	0.12	1.6	ppm	<b>AEGL-1, -2, -3.</b> All Ts changed.
1044	<b>Dimethyl sulfide; (2-Thiopropene)</b>	<b>75-18-3</b>	10	150	1000	<b>5000</b>	ppm	<b>ERPG-2, -3, odor-based ERPG-1 ignored, TLV-TWA added. See LEL formatting note.</b>
1045	Dimethyl sulfone	67-71-0	20	60	400	500	mg/m <sup>3</sup>	Rat LD50 > 5 g/kg
1046	Dimethyl sulfoxide; (DMSO)	67-68-5	250	250	250	2000	ppm	All Ts changed. See LEL formatting note.
1047	Dimethyl(1-phenylethyl)benzene	40766-31-2	4	12.5	75	500	mg/m <sup>3</sup>	PNOS deleted, T-0,T-1, T-2 changed.
1048	Dimethyl(polysiloxane)	70131-67-8	250	500	500	500	mg/m <sup>3</sup>	Added. Assumed density, rat oral LD50 > 64 mL/kg
1049	Dimethyl-1,3-dioxolane-4-methanol, 2,2-	100-79-8	5	15	100	500	ppm	
1050	Dimethyl-1,3-propanediamine, N,N-; (1-Amino-3-dimethylaminopropane)	109-55-7	2.5	7.5	50	200	ppm	Added.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1051	Dimethyl-1-butanamine, N,N-	927-62-8	200	500	500	500	mg/m <sup>3</sup>	Added. MSDS toxicity data inconsistent with RTECS.
1052	Dimethyl-2-pentene, (E)-3,4-	4914-92-5	0.4	1.25	7.5	40	ppm	No toxicity data found, estimated HHR.
1053	Dimethyl-3-nitrobenzene, 1,2-	83-41-0	10	30	50	250	mg/m <sup>3</sup>	TSCA, HC&P listed, no toxicity data. MSDS pchem data differs.
1054	Dimethyl-3-pentanone, 2,4-	565-80-0	5	15	100	1000	ppm	
1055	Dimethyl-5-phenylphenazinium chloride, 3,7-, diamino-2,8-; (Safranine; Gossypimine)	477-73-6	0.25	0.75	5	25	mg/m <sup>3</sup>	Name corrected. No pchem data found.
1056	Dimethylacetamide, n,n-	127-19-5	10	75	300	300	ppm	T-1, T-2 changed. See LEL formatting note.
1057	Dimethylacrylamide, N,N-	2680-03-7	0.6	1.5	12.5	200	mg/m <sup>3</sup>	No pchem data found
1058	<b>Dimethylamine</b>	<b>124-40-3</b>	10	15	100	350	ppm	<b>ERPG-1, -2, -3; odor-based ERPG-1 ignored. See LEL formatting note.</b>
1059	Dimethylamino)benzaldehyde, p-(	100-10-7	7.5	25	150	250	mg/m <sup>3</sup>	
1060	Dimethylamino)phenyl)azo)benzenesulfonic acid, sodium salt, P-((P-; (Methyl orange,sodium salt)	547-58-0	0.25	0.75	5	25	mg/m <sup>3</sup>	SAX, RTECS, HC&P, H&N all have H14, but HSDB, TSCA have H15 in MF

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1061	Dimethylaminoazobenzene, 4-	60-11-7	15	50	75	75	mg/m <sup>3</sup>	
1062	Dimethylaminoethanol, 2-	108-01-0	12.5	35	150	150	ppm	See LEL formatting note.
1063	Dimethylaminoethyl chloride hydrochloride, 2-	4584-46-7	0.6	2	15	100	mg/m <sup>3</sup>	Added.
1064	Dimethylammonium N,N-dimethylcarbamate	4137-10-4	1.5	5	35	150	mg/m <sup>3</sup>	Added. Not listed in databases, MSDS pchem data, no HHR found.
1065	Dimethylaniline, N,N-	121-69-7	5	10	10	100	ppm	
1066	Dimethylbenzidine 3,3'-; (o-Tolidine)	119-93-7	0.1	0.3	2	100	mg/m <sup>3</sup>	
1067	Dimethylbutyric acid, 2,2-	595-37-9	7.5	25	150	500	mg/m <sup>3</sup>	Added. No toxicity data found. MSDS pchem and HHR data.
1068	Dimethylcyclohexane, cis-1,4-	624-29-3	0.75	2	15	75	ppm	In H&N, based on cyclohexane
1069	Dimethyldecane, 2,2-	17302-37-3	50.3	50.3	259	<b><i>1250</i></b>	ppm	See LEL formatting note.
1070	<b>Dimethyldichlorosilane</b>	<b>75-78-5</b>	0.3	0.9	13	53	ppm	<b>Interim AEGL-1, -2, -3. See LEL formatting note.</b>

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1071	Dimethyldicyclopentadiene	26472-00-4	7.5	25	200	500	mg/m <sup>3</sup>	Added. See LEL formatting note.
1072	Dimethyldimethoxysilane	1112-39-6	20	60	400	500	mg/m <sup>3</sup>	Added.
1073	Dimethylethyl hydroperoxide, 1,1-; (tert-Butylhydroperoxide)	75-91-2	0.75	2.5	15	50	ppm	
1074	<b>Dimethylformamide, N,N-</b>	<b>68-12-2</b>	2	2	90	180	ppm	<b>Interim AEGL-2, -3. ERPG-1, -2, -3. See LEL formatting note.</b>
1075	Dimethylheptane, 2,2-	1071-26-7	66.8	66.8	343	<i>1500</i>	ppm	In HC&P; NIOSH limits for Alkanes used. See LEL formatting note.
1076	Dimethylhexane, 3,3-	563-16-6	75	75	386	<i>2000</i>	ppm	In HC&P; NIOSH limits for Alkanes used. See LEL formatting note.
1077	<b>Dimethylhydrazine, 1,1-</b>	<b>57-14-7</b>	0.5	0.5	3	11	ppm	<b>Final AEGL-2, -3. See LEL formatting note.</b>
1078	<b>Dimethylhydrazine, 1,2-</b>	<b>540-73-8</b>	0.6	1.5	3	11	ppm	<b>Final AEGL-2, -3.</b>
1079	Dimethylimidazole, 1,2-	1739-84-0	4	12.5	75	400	mg/m <sup>3</sup>	Added.
1080	Dimethylisopropylamin, n,n-	996-35-0	1	3	5	25	mg/m <sup>3</sup>	Added. TSCA listed, DFG MAK.

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1081	Dimethylnonane, 4,5-	17302-23-7	125	250	250	250	ppm	Changed name from 2,6- to 4,5-, not found in databases. See LEL formatting note.
1082	Dimethyloctane, 3,5-	15869-93-9	100	200	500	<i>2500</i>	ppm	Based on octane-butane ratio. See LEL formatting note.
1083	Dimethylphenol, 2,4-; (2,4-Xylenol)	105-67-9	0.3	1	6	500	mg/m <sup>3</sup>	
1084	Dimethylphenol, 2,6-; (2,6-Xylenol)	576-26-1	0.75	2	15	125	mg/m <sup>3</sup>	
1085	Dimethylphthalate	131-11-3	5	15	75	500	mg/m <sup>3</sup>	T-2 changed. See LEL formatting note.
1086	Dimethylpolysilane	28883-63-8	0.75	2.5	10	25	mg/m <sup>3</sup>	Added. Not found in databases, in ChemFinder, no pchem data.
1087	Dimethyl-p-phenylenediamine, N,N-	99-98-9	0.025	0.075	0.13	1	mg/m <sup>3</sup>	
1088	Dimethylpropane, 2,2-; (Neopentane)	463-82-1	610	610	610	<u>50000</u>	ppm	Used pentane limits. See LEL formatting note.
1089	Dimethylpyridine, 2,4-; (2,4-Lutidine)	108-47-4	0.15	0.5	4	20	ppm	
1090	Dimethyltetramethoxydisiloxane, 1,3-	18186-97-5	10	30	50	250	mg/m <sup>3</sup>	Not found in databases.

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1091	Dimetilan	644-64-4	5	15	25	25	mg/m <sup>3</sup>	
1092	Di-N-amylamine	2050-92-2	0.06	0.2	1.25	6	ppm	
1093	Di-n-butylamine	111-92-2	0.25	0.75	5	50	ppm	WEEL-C added, T-0, T-1, T-2 changed. See LEL formatting note.
1094	Dinitraniline orange; (Hansa orange RN)	3468-63-1	10	30	50	250	mg/m <sup>3</sup>	No data found.
1095	Dinitroaniline, 2,4-	97-02-9	0.035	0.1	0.75	12.5	mg/m <sup>3</sup>	
1096	Dinitrobenzene, m-	99-65-0	1	3	5	50	mg/m <sup>3</sup>	
1097	Dinitrobenzene, o-	528-29-0	1	3	5	50	mg/m <sup>3</sup>	See LEL formatting note.
1098	Dinitrobenzene, p-	100-25-4	1	3	5	50	mg/m <sup>3</sup>	See LEL formatting note.
1099	Dinitro-o-cresol, 4,6- and salts	534-52-1	0.2	0.2	0.5	5	mg/m <sup>3</sup>	
1100	Dinitrophenol	25550-58-7	0.25	0.75	5	25	mg/m <sup>3</sup>	

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1101	Dinitrophenol, 2,3-	66-56-8	0.75	2	15	75	mg/m <sup>3</sup>	
1102	Dinitrophenol, 2,4-	51-28-5	1.5	5	30	30	mg/m <sup>3</sup>	See also CAS RN 25550-58-7
1103	Dinitrophenol, 2,6-	573-56-8	0.15	0.4	3	15	mg/m <sup>3</sup>	
1104	Dinitro-p-toluidine, 2,6-; (4-Amino-3,5-dinitrotoluene)	6393-42-6	2.5	7.5	50	250	mg/m <sup>3</sup>	Name corrected.
1105	Dinitrosopiperazine; (Piperazine, 1,4-dinitroso)	140-79-4	0.5	1.5	10	60	mg/m <sup>3</sup>	
1106	Dinitrotoluene	25321-14-6	0.2	0.6	12.5	50	mg/m <sup>3</sup>	T-2 changed.
1107	Dinitrotoluene 2,4-	121-14-2	0.2	0.6	30	50	mg/m <sup>3</sup>	T-2 changed. See LEL formatting note.
1108	Dinitrotoluene 2,6-	606-20-2	0.2	0.6	6	50	mg/m <sup>3</sup>	T-2 changed. See LEL formatting note.
1109	Dinitrotoluene, 3,4-	610-39-9	0.2	0.6	10	50	mg/m <sup>3</sup>	T-2 changed. Limits are for mixed isomers
1110	Dinoseb; (2-sec-Butyl-4,6-dinitrophenol)	88-85-7	0.75	2.5	4.5	10	mg/m <sup>3</sup>	PNOS deleted, T-0, T-1 changed.

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1111	Dinoterb; (2-(1,1-Dimethylethyl)-4,6-dinitrophenol)	1420-07-1	5	15	25	25	mg/m <sup>3</sup>	
1112	Dioctyl phthalate, n-	117-84-0	15	50	400	500	mg/m <sup>3</sup>	
1113	Dioctyl sebacate; (Bis(2-ethylhexyl) sebacate)	122-62-3	7.5	20	150	500	mg/m <sup>3</sup>	
1114	Dioctyl sodium sulfosuccinate; (Di-(2-ethylhexyl) sodium sulfosuccinate)	577-11-7	7.5	20	150	500	mg/m <sup>3</sup>	
1115	<b>Dioxane, 1,4-</b>	<b>123-91-1</b>	17	17	320	760	ppm	<b>Interim AEGL-1, -2, -3. See LEL formatting note.</b>
1116	Dioxathion	78-34-2	0.1	0.3	3.4	150	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
1117	Dioxine; (TCDD; 2,3,7,8-tetrachlorodibenzo-p-dioxin)	1746-01-6	0.0006	0.0015	0.0075	0.0075	mg/m <sup>3</sup>	SAX has synonym 2,3,6,7-tetrachlorodibenzo-p-dioxin, not other databases
1118	Dioxolane, 1,3-	646-06-0	20	20	69.3	<b>4000</b>	ppm	T-3 changed. See LEL formatting note.
1119	Dipentaerythritol; (Dipentek)	126-58-9	10	30	50	250	mg/m <sup>3</sup>	
1120	Dipentyl pentylphosphonate	6418-56-0	25	75	500	500	mg/m <sup>3</sup>	RTECS LD > 3160 mg/kg. T-0, T-1, T-2 changed.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1121	Diphacinone; (Diphenadione)	82-66-6	0.15	0.5	0.9	500	mg/m <sup>3</sup>	
1122	Diphenyl mercury (aryl compound)	587-85-9	0.177	0.177	0.177	17.7	mg/m <sup>3</sup>	Mercury, aryl compound limits, as Hg. T-0, T-1, T-2 changed.
1123	Diphenyl o-cresol phosphate; (Diphenyl cresol phosphate)	26444-49-5	2.5	7.5	50	500	mg/m <sup>3</sup>	Added.
1124	Diphenyl; (Biphenyl)	92-52-4	1	3.9	6.5	100	mg/m <sup>3</sup>	See LEL formatting note.
1125	Diphenylamine	122-39-4	10	30	125	125	mg/m <sup>3</sup>	
1126	Diphenylboronic acid	524-95-8	0.4	1.25	10	50	mg/m <sup>3</sup>	Added. No pchem data found.
1127	Diphenylguanidine, 1,3-	102-06-7	0.2	0.6	4	125	mg/m <sup>3</sup>	
1128	Diphenylhydrazine, 1,2-	122-66-7	0.2	0.6	4	125	mg/m <sup>3</sup>	PNOS deleted, T-0, T-1, T-2 changed.
1129	Diphenylmethane	101-81-5	7.5	25	200	500	mg/m <sup>3</sup>	
1130	Diphenylnitrosamine	86-30-6	7.5	25	150	500	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1131	Diphenyloxazole, 2,5-	92-71-7	3	7.5	60	300	mg/m <sup>3</sup>	PNOS deleted, T-0, T-1, T-2 changed.
1132	Dipicolinic acid; (2,6-Pyridinedicarboxylic acid)	499-83-2	10	30	50	250	mg/m <sup>3</sup>	TSCA, HC&P listed, no toxicity data. MSDS MW = 147.12
1133	Dipotassium cadmium oxide	z-0013	0.0099	0.0594	0.1	17.8	mg/m <sup>3</sup>	Cadmium compounds, as Cd. T-3 changed.
1134	Dipotassium dihydrogen silicate	z-0014	10	30	50	250	mg/m <sup>3</sup>	MW = 140.30 for MF = K <sub>2</sub> H <sub>2</sub> SiO <sub>2</sub>
1135	Dipotassium metasilicate	10006-28-7	6	15	125	500	mg/m <sup>3</sup>	<b>SAR</b>
1136	Dipotassium zirconium oxide	z-0015	11.9	23.8	23.8	119	mg/m <sup>3</sup>	Zr concentration limits, IDLH corrected. All Ts changed.
1137	Dipropyl ketone; (4-Heptanone)	123-19-3	50	50	60	350	ppm	See LEL formatting note.
1138	Dipropylamine	142-84-7	15	50	350	500	mg/m <sup>3</sup>	
1139	Dipropylene glycol methyl ether	34590-94-8	100	150	150	400	ppm	See LEL formatting note.
1140	Direct Black 38; (Apomine black GX)	1937-37-7	25	75	500	500	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1141	Di-sec-octylphthalate	117-81-7	5	10	75	<u>500</u>	mg/m <sup>3</sup>	T-2 changed. See LEL formatting note.
1142	Disodium (2-ethylhexyl)phosphate	18541-72-5	0.02	0.06	0.4	2	mg/m <sup>3</sup>	<b>SAR</b>
1143	Disodium 3,6-endoxohexahydrophthalate	129-67-9	1	3	20	20	mg/m <sup>3</sup>	
1144	Disodium butylphosphate	64114-42-7	0.02	0.06	0.4	2	mg/m <sup>3</sup>	CAS RN changed from 12786-93-1, listed in TSCA. SAR
1145	Disodium cadmium oxide	z-0016	0.0085	0.0508	0.0847	15.2	mg/m <sup>3</sup>	Cadmium compound, as Cd. T-0, T-2 changed.
1146	Disodium dihydrogen silicate	z-0017	10	30	50	250	mg/m <sup>3</sup>	
1147	Disodium ethylenediaminediacetate (S and U isomers)	38011-25-5	4	12.5	75	400	mg/m <sup>3</sup>	RTECS MW = 222.18 SAR
1148	Disodium hexafluorosilicate, 2-	16893-85-9	4.12	4.12	5	5	mg/m <sup>3</sup>	Name corrected. Use human toxicit rather than fluoride IDLH.
1149	Disodium iminodiacetate; (IDA)	928-72-3	4	12.5	100	500	ppm	TSCA has MF with H7 rather than H5. See LEL formatting note.
1150	Disulfiram	97-77-8	2	2	3	125	mg/m <sup>3</sup>	T-2 changed.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1151	Disulfoton	298-04-4	0.05	0.15	2	75	mg/m <sup>3</sup>	
1152	Di-tert-butyl dicarbonate	24424-99-5	0.4	1.25	7.5	40	mg/m <sup>3</sup>	Added.
1153	Di-tert-butyl-hydroquinone, 2,5-	88-58-4	12.5	40	250.00	400	mg/m <sup>3</sup>	
1154	Dithiazanine iodide; (3,3'-Diethylpentamethinethiacyanine iodide)	514-73-8	4	12.5	20	20	mg/m <sup>3</sup>	
1155	Dithiobiuret	541-53-7	1	3	5	5	mg/m <sup>3</sup>	
1156	Dithiodiethanol, 2,2-; (Dithiodiglycol)	1892-29-1	0.75	2	15	75	mg/m <sup>3</sup>	HC&P pchem data.
1157	Dithioerythritol, 1,4-	6892-68-8	1.25	4	25	125	mg/m <sup>3</sup>	Name spelling corrected.
1158	Diurethane dimethacrylate	72869-86-4	75	250	500	500	mg/m <sup>3</sup>	Added. TSCA listed. No toxicity or pchem data found. MSDS HHR = 0.
1159	Divinylbenzene, m-; (m-Vinylstyrene)	108-57-6	10	10	75	350	ppm	T-2, T-3 changed. See LEL formatting note.
1160	Divinylbenzene, mixed isomers; (Vinylstyrene)	1321-74-0	10	10	75	350	ppm	T-1, T-2, T-3 changed. See LEL formatting note.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1161	Dodecamethylcyclohexasiloxane	540-97-6	10	30	50	500	mg/m <sup>3</sup>	r os LD50 > 50 g/kg SAR
1162	Dodecane	112-40-3	0.015	0.05	0.35	20	ppm	See LEL formatting note.
1163	Dodecanethiol, 1-; (Dodecyl mercaptan; Lauryl mercaptan)	112-55-0	0.1	0.3	0.5	2.5	ppm	Added
1164	Dodecen-1-yl)succinic anhydride, (2-; (DDSA)	19780-11-1	10	30	50	250	mg/m <sup>3</sup>	Added. TSCA listed, no toxicity data or HHR found.
1165	Dodecenylsuccinic anhydride	25377-73-5	5	15	100	500	mg/m <sup>3</sup>	
1166	Dodecyl alcohol	112-53-8	0.4	1	7.5	500	mg/m <sup>3</sup>	
1167	Dodecyl methacrylate	142-90-5	5	15	100	500	ppm	
1168	Dodecylbenzene sulfonic acid; (Laurylbenzenesulfonic acid)	27176-87-0	2.5	7.5	50	250	mg/m <sup>3</sup>	
1169	Dodecylphenol, 4-; (mixture of isomers)	27193-86-8	7.5	25	150	500	mg/m <sup>3</sup>	Pchem data varies in SAX, HSDB, HC&P.
1170	Dodecylsarcosine sodium salt, N-; (N-laurel sarcosine sodium salt)	7631-98-3	1.5	4	30	150	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1171	Dodenyl succine anhydride; (Tetrapropenylsuccinic anhydride)	26544-38-7	10	30	200	500	mg/m <sup>3</sup>	Added.
1172	Dowex 50WX4; (50-400 ion exchange resin)	11113-61-4	10	30	50	250	mg/m <sup>3</sup>	Not found in databases. No MSDS, assume solid.
1173	Dv methyl ester; (Methyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate)	61898-95-1	10	30	50	250	mg/m <sup>3</sup>	Added. TSCA listed. No toxicity data found. MW, BP, SG ex MSDS.
1174	Dysprosium	7429-91-6	10	30	50	250	mg/m <sup>3</sup>	Added. No toxicity data found.
1175	Dysprosium nickelide	12175-27-8	10	30	50	250	mg/m <sup>3</sup>	Not found in databases.
1176	Dysprosium nitrate	10143-38-1	10	30	200	500	mg/m <sup>3</sup>	T-2 changed.
1177	Dysprosium oxide; (Dysprosium(III) oxide)	1308-87-8	20	60	400	500	mg/m <sup>3</sup>	Rat oral LD50 > 5 g/kg
1178	Ecolite	z-0018	20	60	400	500	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
1179	Emetine dihydrochloride, 1-	316-42-7	0.05	0.15	0.25	0.25	mg/m <sup>3</sup>	
1180	Endosulfan	115-29-7	0.1	0.3	0.8	35	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1181	Endothion	2778-04-3	3.5	10	17	17	mg/m <sup>3</sup>	
1182	Endrin	72-20-8	0.1	0.3	2	2	mg/m <sup>3</sup>	See LEL formatting note.
1183	Epibatadine (nicotine-like)	z-0019	0.0015	0.004	0.025	0.025	mg/m <sup>3</sup>	
1184	Epibromohydrin	3132-64-7	1.25	3.5	25	125	mg/m <sup>3</sup>	
1185	<b>Epichlorohydrin</b>	<b>106-89-8</b>	0.5	5.7	24	72	ppm	<b>ERPG-1, -2, -3. AEGL-1, -2, -3. All Ts changed. See LEL formatting note.</b>
1186	Epinephrine; (Vasotonin; (R)-4-(1-hydroxy-2-(methylamino)ethyl)-1,2-Benzenediol)	51-43-4	0.25	0.25	0.25	0.25	mg/m <sup>3</sup>	
1187	EPN; (O-Ethyl-O-(4-nitrophenyl) phenylthiophosphonate)	2104-64-5	0.5	0.5	5	5	mg/m <sup>3</sup>	T-0, T-1 changed.
1188	Epoxy resin; (Epichlorohydrin + diethylene glycol)	25928-94-3	0.06	0.2	1.25	6	mg/m <sup>3</sup>	
1189	Epoxy resin (EPON 1001)	25068-38-6a	125	350	500	500	mg/m <sup>3</sup>	PNOS deleted, T-0, T-1, T-2 changed.
1190	Epoxy resin (EPON 1007)	25068-38-6b	125	350	500	500	mg/m <sup>3</sup>	PNOS deleted, T-0, T-1, T-2 changed.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1191	Epoxy resin (EPON 820)	25068-38-6c	50	150	500	500	mg/m <sup>3</sup>	PNOS deleted, T-0, T-1, T-2 changed.
1192	Epoxy resin ERL-2795	25068-38-6d	4	12.5	100	500	mg/m <sup>3</sup>	PNOS deleted, T-0, T-1, T-2 changed.
1193	Epoxy resin, cured	30583-72-3	10	30	50	250	mg/m <sup>3</sup>	
1194	Epoxy resin; (Epichlorohydrin-bisphenol A resin)	25036-25-3	7.5	25	150	500	mg/m <sup>3</sup>	AddeD. TSCA, H&N listed. No toxicity data found. Used SRS HHR = 2.
1195	Epoxybutane, 1,2- ; (1,2-Butylene oxide)	106-88-7	2	75	200	200	ppm	All Ts changed. See LEL formatting note.
1196	Epoxyethyl)-7-oxabicyclo(4.1.0)heptane, 3-( ; (Vinyl cyclohexene dioxide)	106-87-6	0.1	0.35	2.5	75	ppm	Name corrected, synonym added. Human skin exposure ignored. T-1, T-2 changed.
1197	Erbium nitrate pentahydrate	10031-51-3	10	30	50	250	mg/m <sup>3</sup>	
1198	Erbium(III) nitrate	10168-80-6	0.2	0.6	5	25	mg/m <sup>3</sup>	
1199	Erbium(III) nitrate hexahydrate	13476-05-6	1	3	20	100	mg/m <sup>3</sup>	
1200	Erbium(III) oxide	12061-16-4	20	60	400	500	mg/m <sup>3</sup>	Rat LD50 > 5 g/kg

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1201	Ergocalciferol; (Vitamin D2)	50-14-6	7.5	25	40	40	mg/m <sup>3</sup>	
1202	Ergotamine tartrate	379-79-3	2	6	10	60	mg/m <sup>3</sup>	
1203	Estane; (Polyurethane resin; Urethane rubber)	61789-63-7	10	30	50	250	mg/m <sup>3</sup>	OHMTADS lists "Estane-5703", CAS RN = 51-79-6, MSDS not useful
1204	Ethane	74-84-0	1000	<i>3000</i>	<i>5000</i>	<i>25000</i>	ppm	Aliphatic hydrocarbon gas TLV-TWA. See LEL formatting note.
1205	Ethanedioic acid, dimethyl ester	553-90-2	4	12.5	75	400	mg/m <sup>3</sup>	Rat LDlo > 500 mg/kg.
1206	Ethanedithiol, 1,2-	540-63-6	0.35	1	7.5	40	ppm	
1207	Ethanediy(bis)benzene, 1,1'-(1,2-; (Bibenzyl)	103-29-7	15	50	400	500	mg/m <sup>3</sup>	Name corrected.
1208	Ethanediy(bis)(n-(carboxy-methyl)-glycine), N,N'-1,2-, dipotassium salt	2001-94-7	1.5	5	40	200	mg/m <sup>3</sup>	Incorrect synonym deleted.
1209	Ethanediy(bis(oxy))bisbenzene, 1,1'-(1,2-	104-66-5	10	30	50	250	mg/m <sup>3</sup>	Name corrected. No toxicity data. MSDS solid.
1210	<b>Ethane<b>thiol</b>; (Ethyl mercaptan)</b>	<b>75-08-1</b>	0.5	1	120	360	ppm	<b>Interim AEGL-1, -2, -3. See LEL formatting note.</b>

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1211	Ethanol, titanium(4+) salt	3087-36-3	10	30	50	250	mg/m <sup>3</sup>	TSCA, H&N listed, no toxicity data, assumed nonvolatile liquid.
1212	Ethanolamine	141-43-5	3	6	30	30	ppm	See LEL formatting note.
1213	Ethenylsilanetriol triacetate	4130-08-9	10	30	50	250	mg/m <sup>3</sup>	TSCA, HC&P listed, no toxicity data, no MSDS found, assumed nonvolatile.
1214	Ethidium bromide; (2,7-Diamino-10-ethyl-9-phenylphenanthridinium bromide)	1239-45-8	0.15	0.5	4	20	mg/m <sup>3</sup>	
1215	Ethion	563-12-2	0.05	0.15	13	350	mg/m <sup>3</sup>	Revised TLV-TWA, T-0, T-1 changed.
1216	Ethoxyethanol, 2-	110-80-5	5	15	500	500	ppm	PEL-TWA ignored. T-2 changed. See LEL formatting note.
1217	Ethoxyethoxy)ethanol, 2-(2-; (Carbitol cellosolve; Diethylene glycol monoethyl ether)	111-90-0	25	30	200	400	ppm	Human data added, T-1, T-2 changed. See LEL formatting note.
1218	Ethoxyethyl methacrylate, 2-	2370-63-0	4	12.5	75	400	mg/m <sup>3</sup>	TSCA listed, no toxicity or pchem data found. Toxicity based on Ethoxyethyl acrylate (106-74-1).
1219	Ethoxyethylacetate, 2-	111-15-9	5	75	500	500	ppm	PEL-TWA ignored. T-0, T-1, T-2 changed. See LEL formatting note.
1220	Ethoxyimino)butyl)-5-(2-ethylthiopropyl)-3-hydroxycyclohex-2-en-1-one, 2-(1-( ; (Checkmate)	74051-80-2	12.5	40	250	500	mg/m <sup>3</sup>	Incomplete name changed, synonym added. Estimated LC50 deleted, T--0, T-1, T-2 changed.

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1221	Ethoxylated alcohols, C16-18; (Nonionic surfactant)	68439-49-6	5	15	100	500	mg/m <sup>3</sup>	Added. Pchem data ex MSDS.
1222	Ethoxylated alcohols, C7-C21	68991-48-0	10	10	10	10	mg/m <sup>3</sup>	No toxicity data found.
1223	Ethoxylated nonylphenol; (Nonyl phenyl polyethylene glycol ether)	9016-45-9	5	15	100	500	mg/m <sup>3</sup>	
1224	Ethyhexyloxy)ethanol, 2-(2-	1559-35-9	100	350	500	500	mg/m <sup>3</sup>	Added.
1225	Ethyl (or dimethyl) pyrrolidine	z-0020	5	15	100	500	mg/m <sup>3</sup>	<b>SAR</b>
1226	Ethyl acetate	141-78-6	400	400	400	<b>2000</b>	ppm	See LEL formatting note.
1227	Ethyl acetoacetate	141-97-9	15	50	350	500	mg/m <sup>3</sup>	See LEL formatting note.
1228	<b>Ethyl acrylate</b>	<b>140-88-5</b>	5	8.3	36	240	ppm	<b>Interim AEGL-1, -2, -3. PEL-TWA suppressed. See LEL formatting note.</b>
1229	Ethyl Alcohol D; (Ethanol D)	925-93-9	1000	3000	3300	3300	ppm	Added. Not listed in databases, MSDS pchem data.
1230	Ethyl alcohol; (ethanol)	64-17-5	1000	3000	<b>3300</b>	<b>3300</b>	ppm	See LEL formatting note.

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1231	Ethyl amyl ketone; (3-Octanone)	106-68-3	25	25	25	100	ppm	CAS RN = 541-85-5 in OEV Guide, SAX, RTECS, etc.
1232	Ethyl benzene	100-41-4	100	125	125	<b><i>800</i></b>	ppm	See LEL formatting note.
1233	Ethyl benzoate	93-89-0	7.5	25	150	500	mg/m <sup>3</sup>	Added.
1234	Ethyl bromoacetate	105-36-2	0.0008	0.0025	0.02	0.1	ppm	Added.
1235	Ethyl butyl ketone; (3-Heptanone)	106-35-4	50	75	200	1000	ppm	See LEL formatting note.
1236	Ethyl cellulose	9004-57-3	20	60	400	500	mg/m <sup>3</sup>	Rat oral LD50 > 5 g/kg
1237	Ethyl chloride	75-00-3	100	1500	<b><i>3800</i></b>	<b><i>3800</i></b>	ppm	PEL-TWA ignored, T-0, T-1, T-2 changed. See LEL formatting note.
1238	Ethyl chloroacetate	105-39-5	0.15	0.4	3	15	ppm	Added.
1239	<b>Ethyl chloroformate</b>	<b>541-41-3</b>	1	1	5	10	ppm	<b>New ERPG-1, -2, -3. T-2 changed.</b>
1240	<b>Ethyl dimethylamido-cyanophosphate; (Tabun; GA)</b>	<b>77-81-6</b>	0.0001	0.0004	0.0053	0.039	ppm	<b>Final AEGL-1, -2, -3.</b>

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

**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1241	Ethyl ether	60-29-7	400	500	500	<i>1900</i>	ppm	See LEL formatting note.
1242	Ethyl formate	109-94-4	100	300	500	1500	ppm	Added. See LEL formatting note.
1243	Ethyl hexanoic acid, 2-; (Butyl ethyl acetic acid)	149-57-5	6	15	125	500	mg/m <sup>3</sup>	See LEL formatting note.
1244	Ethyl lactate; (Ethyl (s)-(-)-lactate)	687-47-8	15	40	300	500	mg/m <sup>3</sup>	Added. HHR = 2. HSDB toxicity data.
1245	Ethyl mercury chloride; (Chloroethyl mercury)	107-27-7	0.0132	0.0396	0.0529	2.64	mg/m <sup>3</sup>	Concentration limits, mercury, alkyl compounds. T-2, T-3 changed.
1246	Ethyl methacrylate, (2-Methyl-2-propenoic acid, ethyl ester)	97-63-2	50	150	750	750	ppm	Toxicity data added. T-0, T-1, T-2 changed. See LEL formatting note.
1247	Ethyl nitrite	109-95-5	0.6	2	12.5	60	ppm	See LEL formatting note.
1248	Ethyl O-2-diisopropylaminoethylmethylphosphonite, QL O-	57856-11-8	10	30	50	250	mg/m <sup>3</sup>	TSCA listed, no toxicity data, assumed nonvolatile liquid or solid.
1249	Ethyl propionate	105-37-3	7.5	25	150	750	ppm	See LEL formatting note.
1250	Ethyl s,s-dipropylphosphorodithioate, O-; (Mocap PC-84; Ethoprophos )	13194-48-4	0.25	0.75	5	15	mg/m <sup>3</sup>	Pchem data added. All Ts changed.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					UNITS	Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3			
1251	Ethyl silicate polymer; (Silicic acid, ethyl ester)	11099-06-2	10	30	50	250	mg/m <sup>3</sup>	Added. TSCA, H&N listed, no pchem or toxicity data found. ChemFinder MW, MF.	
1252	Ethyl-1,3-hexanediol, 2-; (Ethyl hexylene glycol)	94-96-2	12.5	40	300	750	ppm	Added.	
1253	<b>Ethyl-1-hexanol, 2-</b>	<b>104-76-7</b>	0.1	0.1	120	227	ppm	<b>ERPG-1, -2, -3.</b>	
1254	Ethyl-2-methylheptane, 3-	14676-29-0	15	50	350	<i>1500</i>	ppm	No toxicity data found, ChemFinder listed, LC50 estimated. See LEL formatting note.	
1255	Ethyl-2-methyloctane, 6-	z-0021	0.35	1	6	35	ppm	Undecane toxicity data used (C11 Alkanes)	
1256	Ethyl-2-oxazoline, 2-	10431-98-9	0.1	0.3	2	10	ppm	Added. CAS RN corrected. TSCA listed, no toxicity or HHR found, MSDS pchem data.	
1257	Ethyl-4-hydroxybenzoate; (p-Hydroxybenzoic acid ethyl ester; Ethyl acetimidate hydrochloride)	120-47-8	250	500	500	500	mg/m <sup>3</sup>	Added.	
1258	Ethyl-5-methylheptane, 3-	52896-90-9	0.06	0.2	1.25	<i>5000</i>	ppm	See LEL formatting note. (Don't know source of data)	
1259	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/m <sup>3</sup>	Synonym corrected.	
1260	Ethylamine; (Monoethylamine; Ethylamine anhydrous)	75-04-7	10	15	125	600	ppm	T-2 changed. See LEL formatting note.	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1261	Ethylbenzaldehyde, 2-	22927-13-5	10	30	200	<b><i>1000</i></b>	ppm	TSCA, HC&P, H&N & MSDS CAS RN = 4748-78-1 for 4-ethylbenzaldehyde, TSCA has 53951-50-1 without "4-". "2-" not found. See LEL formatting note.
1262	Ethylbis(2-chloroethyl)amine; (Bis(2-chloroethyl)ethylamine)	538-07-8	1.5	4	7.5	30	mg/m <sup>3</sup>	LC data ex SAX, not in RTECS.
1263	Ethylene	74-85-1	200	600	<b><i>7500</i></b>	<b><i>7500</i></b>	ppm	Mouse 120 min RTECS LC50 ignored, T-2, T-3 changed. See LEL formatting note.
1264	Ethylene chlorohydrin	107-07-3	1	1	7	7	ppm	PEL-TWA ignored. See LEL formatting note.
1265	Ethylene dibromide	106-93-4	20	30	30	100	ppm	NIOSH RELS much lower than OSHA PELs.
1266	<b>Ethylene dichloride; (1,2-Dichloroethane)</b>	<b>107-06-2</b>	50	50	200	300	ppm	<b>ERPG-1, -2, -3 See LEL formatting note.</b>
1267	Ethylene fluorohydrin; (2-Fluoroethanol)	371-62-0	0.005	0.015	0.0267	1.25	ppm	
1268	Ethylene glycol	107-21-1	10	39.4	40	60	ppm	T-1 changed. See LEL formatting note.
1269	Ethylene glycol diacetate	111-55-7	25	75	500	500	mg/m <sup>3</sup>	Added. See LEL formatting note.
1270	Ethylene glycol dimethacrylate	97-90-5	12.5	40	300	500	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1271	Ethylene Glycol monomethyl ether acetate; (EGMEA; 2-Methoxyethyl acetate)	110-49-6	0.1	0.3	20	200	ppm	Added, revised TLV-TWA, PEL-TWA ignored. See LEL formatting note.
1272	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. See LEL formatting note.
1273	Ethylene glycol monopropyl ether; (Propyl cellosolve, Ektasolve EP)	2807-30-9	4	12.5	75	1000	ppm	See LEL formatting note.
1274	Ethylene glycol mono-sec-butyl ether	7795-91-7	3	10	60	350	mg/m <sup>3</sup>	
1275	<b>Ethylene oxide; (Oxirane)</b>	<b>75-21-8</b>	1	5	45	200	ppm	<b>Interim AEGL-2, -3. See LEL formatting note.</b>
1276	Ethylene/vinyl acetate copolmer	24937-78-8	10	30	50	250	mg/m <sup>3</sup>	TSCA, H&N listed, no toxicity data; MSDS states, MP and SG.
1277	Ethylenediamine dihydrochloride	333-18-6	0.1	0.3	2	60	mg/m <sup>3</sup>	<b>Human TClo skin ignored. No pchem data found.</b>
1278	<b>Ethylenediamine, 1,2-</b>	<b>107-15-3</b>	9.7	9.7	9.7	20	ppm	<b>Final AEGL-2, -3. See LEL formatting note.</b>
1279	Ethylenediaminetetraacetic acid, disodium salt	139-33-3	60	150	500	500	mg/m <sup>3</sup>	
1280	Ethylenediaminetetraacetic acid, disodium salt, dihydrate	6381-92-6	10	30	50	250	mg/m <sup>3</sup>	RTECS listed. No toxicity data found.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1281	Ethylenediaminetetraacetic acid, ferric ammonium salt	21265-50-9	2.5	7.5	50	250	mg/m <sup>3</sup>	Synonym deleted. Source of mouse toxicity data not traced.
1282	Ethylenediaminetetraacetic acid, tetrasodium salt, dihydrate	10378-23-1	7.5	25	150	500	mg/m <sup>3</sup>	MSDS HHR =2 used to estimate toxicity, all Ts changed.
1283	Ethylenediaminetetraacetic acid, tetrasodium salt; (Tetrasodium EDTA)	64-02-8	40	125	500	500	mg/m <sup>3</sup>	Name corrected, toxicity data changed, all Ts changed.
1284	Ethylenediaminetetraacetic acid; (EDTA)	60-00-4	40	125	150	150	mg/m <sup>3</sup>	PNOS deleted, T-0, T-1 changed.
1285	Ethylenedinitrilo)tetra-2-propanol, 1,1',1",1'''-(	102-60-3	15	50	350	500	mg/m <sup>3</sup>	Rat oral LD > 500 mg/kg.
1286	<b>Ethyleneimine</b>	<b>151-56-4</b>	0.5	0.6	4.6	9.9	ppm	<b>Interim AEGL-2, -3 See LEL formatting note.</b>
1287	Ethylenethiourea; (2-Imidazolidinethione)	96-45-7	0.75	2.5	15	500	mg/m <sup>3</sup>	Human 10 year TClo ignored. RTECS data added, T-0, T-1, T-2 changed.
1288	Ethylheptane, 4-	2216-32-2	3	10	60	350	ppm	Assumed HHR = 3 to estimate toxicity. See LEL formatting note.
1289	Ethylhexyl acrolate, 2-; (Acrylic acid, 2-ethylhexyl ester)	103-11-7	0.5	1.5	10	10	ppm	Synonym corrected. See LEL formatting note.
1290	Ethylhexyl bromide, 2-	18908-66-2	10	30	50	250	mg/m <sup>3</sup>	TSCA listed, no toxicity or pchem data found. MSDS pchem data, not helpful, assumed non-volatile.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1291	Ethylidene chloride, 1,1-; (1,1-Dichloroethane)	75-34-3	100	300	3000	3000	ppm	See LEL formatting note.
1292	<b>Ethylidene norbornene</b>	<b>16219-75-3</b>	0.2	0.2	100	500	ppm	<b>ERPG-1, -2, -3 See LEL formatting note.</b>
1293	Ethylmagnesium chloride; (Chloroethyl magnesium)	2386-64-3	10	30	50	250	mg/m <sup>3</sup>	Added. TSCA listed, no toxicity data found, no HHR in MSDS. Used "N" for conc. dependence.
1294	<b>Ethyl-S-dimethylaminoethyl methylphosphonothiolate; (VX nerve agent)</b>	<b>50782-69-9</b>	5E-06	2E-05	0.00027	0.00091	ppm	<b>Final AEGL-1, -2, -3.</b>
1295	Ethylthiocyanate	542-90-5	20	60	100	100	mg/m <sup>3</sup>	
1296	Ethyltoluene, o-	611-14-3	500	500	500	500	mg/m <sup>3</sup>	
1297	Ethyltoluene, p-	622-96-8	500	500	500	500	mg/m <sup>3</sup>	RTECS data added. T-0, T-1 changed.
1298	Europium	7440-53-1	10	30	50	250	mg/m <sup>3</sup>	TSCA listed, no toxicity data found.
1299	Europium (II) Iodide	22015-35-6	10	30	50	250	mg/m <sup>3</sup>	Added. TSCA, HC&P listed, no toxicity toxicity data found.
1300	Europium nitrate; (Europium trinitrate)	10138-01-9	15	50	350	500	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1301	Europium oxide	1308-96-9	20	60	400	500	mg/m <sup>3</sup>	Rat oral LD50 > 5 g/kg
1302	Farnesol	4602-84-0	25	75	500	500	mg/m <sup>3</sup>	Added.
1303	Fenamiphos	22224-92-6	0.05	0.15	0.9	40	mg/m <sup>3</sup>	New TLV-TWA, T-0, T-1 changed.
1304	Fensulfothion	115-90-2	0.01	0.03	2	12.5	mg/m <sup>3</sup>	T-0, T-1 changed.
1305	Fenthion	55-38-9	0.05	0.15	40	40	mg/m <sup>3</sup>	Added, new TLV-TWA
1306	Ferric ammonium citrate	1185-57-5	1	3	500	500	mg/m <sup>3</sup>	
1307	Ferric ammonium sulfate dodecahydrate	7783-83-7	8.64	25.9	43.2	200	mg/m <sup>3</sup>	RTECS listed, no toxicity data. T-0, T-1, T-2 changed.
1308	Ferric ammonium sulfate; Sulfuric acid, ammonium iron(3e+) salt (2:1:1)	10138-04-2	4.82	14.5	25	125	mg/m <sup>3</sup>	T-0, T-1 changed.
1309	Ferric chloride	7705-08-0	2.9	3.5	25	125	mg/m <sup>3</sup>	T-1, T-3 changed.
1310	Ferric chloride hexahydrate	10025-77-1	4.84	75	100	100	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1311	Ferric fluoride	7783-50-8	14.8	40	300	500	mg/m <sup>3</sup>	T-2 changed.
1312	Ferric hydroxide	1309-33-7	3.5	10	75	400	mg/m <sup>3</sup>	
1313	Ferric nitrate	10421-48-4	4.33	13	21.7	100	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
1314	Ferric nitrate nonahydrate; (Iron(III) nitrate nonahydrate (1:3:9))	7782-61-8	7.24	21.72	250	500	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
1315	Ferric phosphate	10045-86-0	2.75	8.26	13.8	60	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
1316	Ferric sulfate; (Iron(III) sulfate)	10028-22-5	3.58	10.7	17.9	75	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
1317	Ferrous ammonium sulfate	10045-89-3	5.09	15.3	25.4	125	mg/m <sup>3</sup>	
1318	Ferrous carbonate	563-71-3	10	30	50	250	mg/m <sup>3</sup>	No toxicity data.
1319	Ferrous chloride	7758-94-3	2.27	6.81	11.3	200	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
1320	Ferrous disulfide; (Iron disulfide)	12068-85-8	2.15	6.44	10.7	50	mg/m <sup>3</sup>	Name corrected. T-0, T-1, T-2 changed.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1321	Ferrous hydroxide	18624-44-7	3.5	10	75.0	400	mg/m <sup>3</sup>	
1322	Ferrous sulfamate	14017-39-1	1	3	5	25	mg/m <sup>3</sup>	
1323	Ferrous sulfate	7720-78-7	2.72	8.16	13.6	350	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
1324	Ferrous sulfate heptahydrate	7782-63-0	4.98	14.9	25	500	mg/m <sup>3</sup>	
1325	Fibrous glass; (Fiber glass; Glass frit; Synthetic vitreous fibers)	65997-17-3	5	15	60	500	mg/m <sup>3</sup>	T-2 changed.
1326	Fluonetil	4301-50-2	1.25	3.5	6	6	mg/m <sup>3</sup>	
1327	Fluoboric acid; (Tetrafluoroboric acid)	16872-11-0	2.89	2.89	7.5	40	mg/m <sup>3</sup>	T-0, T-1 changed.
1328	Fluoranthene	206-44-0	0.004	0.01	0.075	500	mg/m <sup>3</sup>	
1329	Fluorene, 9H-	86-73-7	7.5	25	150	500	mg/m <sup>3</sup>	
1330	Fluorides (as F)	16984-48-8	2.5	2.5	2.5	250	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1331	<b>Fluorine</b>	<b>7782-41-4</b>	0.1	1.7	5	13	ppm	<b>Interim AEGL-1, -2, -3</b>
1332	Fluoro-2-nitrobenzene, 1-; (o-Fluoronitrobenzene)	1493-27-2	7.5	25	150	500	mg/m <sup>3</sup>	Added. No toxicity data found. MSDS HHR = 2.
1333	Fluoro-4-nitrophenol, 2-	403-19-0	0.75	2.5	15	75	mg/m <sup>3</sup>	<b>SAR. ChemFinder also has CAS RN = 21571-34-6, deleted as separate entry.</b>
1334	Fluoro-6-nitrophenol, 2-	1526-17-6	0.75	2.5	15	75	mg/m <sup>3</sup>	<b>SAR</b> , ChemFinder listed.
1335	Fluoroacetamide	640-19-7	1	3.5	5.8	5.8	mg/m <sup>3</sup>	
1336	Fluoroacetic acid, sodium salt; (Sodium fluoroacetate)	62-74-8	0.05	0.15	0.5	2.5	mg/m <sup>3</sup>	
1337	Fluoroacetic acid; (Fluoroethanoic acid)	144-49-0	0.075	0.25	0.47	2	mg/m <sup>3</sup>	
1338	Fluoroacetyl chloride	359-06-8	2	6	10	10	mg/m <sup>3</sup>	
1339	Fluoroaniline, p-	371-40-4	1.5	5	35	150	mg/m <sup>3</sup>	Added. Rat oral TD lo, unspecified time, not used.
1340	Fluorobenzene	462-06-6	125	350	500	500	mg/m <sup>3</sup>	

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1341	Fluorotrimethylsilane	420-56-4	2.5	7.5	50	250	ppm	Based on silicon fluoride. See LEL formatting note.
1342	Fluorouracil	51-21-8	0.75	2.5	19	100	mg/m <sup>3</sup>	
1343	Fonofos	944-22-9	0.01	0.03	1.3	200	mg/m <sup>3</sup>	New TLV-TWA, changed T-0, T-1.
1344	Food Red 15; (FD&C Red No. 19)	81-88-9	0.4	1.25	7.5	50	mg/m <sup>3</sup>	
1345	Forane	26675-46-7	2000	5000	5000	5000	ppm	
1346	<b>Formaldehyde</b>	<b>50-00-0</b>	0.3	0.9	14	56	ppm	<b>Interim AEGL-1, -1, -3.</b> See LEL formatting note.
1347	Formaldehyde cyanohydrin; (Hydroxyacetoneitrile; Glycolonitrile)	107-16-4	0.125	0.35	2.57	4	ppm	
1348	Formamide	75-12-7	10	20	125	1250	ppm	See LEL formatting note. T-2 changed.
1349	Formetanate hydrochloride	23422-53-9	3.5	10	18	18	mg/m <sup>3</sup>	
1350	Formic acid	64-18-6	5	10	10	30	ppm	ERPG development pending. See LEL formatting note.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1351	Formic acid, 2-propenyl ester; (Allyl formate)	1838-59-1	4	12.5	75	400	mg/m <sup>3</sup>	
1352	Formic acid, butyl ester; (n-Butyl formate)	592-84-7	50	150	1000	1000	ppm	See LEL formatting note.
1353	Formothion	2540-82-1	0.05	0.15	0.27	10	mg/m <sup>3</sup>	
1354	Formparanate	17702-57-7	1.5	4	7.2	7.2	mg/m <sup>3</sup>	
1355	Formylpiperidine, 1-	2591-86-8	4	10	75	75	ppm	
1356	Fosthietan	21548-32-3	0.75	2.5	4.7	4.7	mg/m <sup>3</sup>	
1357	Fuberidazole	3878-19-1	0.6	2	3.3	125	mg/m <sup>3</sup>	
1358	Fuel oil, residual	68476-33-5	35	100	500	500	mg/m <sup>3</sup>	
1359	Fuller's earth; (Kaolin, 1332-58-7)	8031-18-3	5	6	500	500	mg/m <sup>3</sup>	HSDB gives Kaolin as synonym, used Kaolin SAX data
1360	Fulminic acid; (Carbyloxime)	506-85-4	0.6	1.5	12.5	60	ppm	Added. No toxicity data found, pchem data ex HC&P,

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1361	Fumaric acid	110-17-8	40	100	500	500	mg/m <sup>3</sup>	
1362	<b>Furan</b>	<b>110-00-9</b>	1.25	4	6.8	19	ppm	<b>Interim AEGL-2, -3. See LEL formatting note.</b>
1363	<b>Furancarboxaldehyde, 2-; (Furfural)</b>	<b>98-01-1</b>	2	2	10	100	ppm	<b>ERPG-1, -2, -3 See LEL formatting note.</b>
1364	Furancarboxylic acid, ethyl ester, 2-; (Ethyl furoate)	614-99-3	0.25	0.75	5	25	ppm	
1365	Furfuryl alcohol	98-00-0	15	15	15	75	ppm	See LEL formatting note.
1366	Fusariotoxin T2; (T2-Trichothecene)	21259-20-1	0.0015	0.004	0.03	0.4	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
1367	Gadolinium	7440-54-2	500	500	500	500	mg/m <sup>3</sup>	
1368	Gadolinium chloride hexahydrate, (anhydrous)	13450-84-5	40	75	75	75	mg/m <sup>3</sup>	Added. No pchem data found.
1369	Gadolinium hydroxide	16469-18-4	0.75	0.75	2.5	75	mg/m <sup>3</sup>	<b>SAR</b>
1370	Gadolinium nitrate, solid	10168-81-7	10	30	50	500	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1371	Gadolinium nitrite	z-0022	0.04	0.125	0.75	75	mg/m <sup>3</sup>	<b>SAR</b>
1372	Gadolinium(III) oxide	12064-62-9	2	6	50	500	mg/m <sup>3</sup>	Rat LD50 > 5000 mg/m <sup>3</sup>
1373	Gallic acid monohydrate	5995-86-8	15	50	350	500	mg/m <sup>3</sup>	Not found in databases. MSDS LD50.
1374	Gallium	7440-55-3	10	30	50	250	mg/m <sup>3</sup>	
1375	Gallium oxide	12024-21-4	10	30	50	500	mg/m <sup>3</sup>	
1376	Gallium trichloride	13450-90-3	6	20	32	100	mg/m <sup>3</sup>	
1377	Gallium trifluoride	7783-51-9	5.56	16.7	27.8	125	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
1378	Gasoline	8006-61-9	300	500	500	<b><i>1500</i></b>	ppm	See LEL formatting note.
1379	Gelatin; (Pharmagel A)	9000-70-8	2.5	7.5	60	300	mg/m <sup>3</sup>	
1380	Germane; (Germanium tetrahydride)	7782-65-2	0.2	0.6	1	150	ppm	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1381	Germanium	7440-56-4	0.0125	0.035	0.25	500	mg/m <sup>3</sup>	
1382	Germanium oxide	1310-53-8	0.75	2	15	500	mg/m <sup>3</sup>	
1383	Germanium tetrafluoride	7783-58-6	4.89	12.5	100	489	mg/m <sup>3</sup>	Reacts with H2.O All Ts changed.
1384	Germanous acid	z-0023	2	6	40	200	mg/m <sup>3</sup>	Used minimum germanium compound LD50
1385	Giemsa's stain; (... blood stain)	51811-82-6	10	30	50	250	mg/m <sup>3</sup>	No toxicity data
1386	Gluconic acid, D-	526-95-4	10	30	50	250	mg/m <sup>3</sup>	Added. No toxicity data found.
1387	Glucose monohydrate, D(+)-; (Dextrose monohydrate glucose)	14431-43-7	10	30	50	250	mg/m <sup>3</sup>	Added. No toxicity or pchem data found.
1388	Glucose, d-; (Dextrose, anhydrous)	50-99-7	0.4	1.25	7.5	500	mg/m <sup>3</sup>	Woman TD lo ex SAX, 20-foLDlower value in RTECS ignored.
1389	Glucose; (alpha-D-glucose; Dextrose)	492-62-6	0.4	1.25	7.5	500	mg/m <sup>3</sup>	Glucose, CAS RN = 50-99-7, toxicity data used.
1390	Glutamic acid, L-; ((S)-(+)-Glutamic acid)	56-86-0	2	6	40	200	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1391	<b>Gluteraldehyde</b>	<b>111-30-8</b>	0.05	0.2	1	5	ppm	<b>ERPG-1, -2, -3</b>
1392	Glycerine (mist); (Glycerol, glycerin)	56-81-5	15	100	500	500	mg/m <sup>3</sup>	T-1, T-2 changed.
1393	Glycerine carbonate; (4-Hydroxymethyl]-1,3-dioxolan-2-one)	931-40-8	10	30	50	250	mg/m <sup>3</sup>	Added. TSCA listed, no toxicity data found.
1394	Glyceryl monostearate; (Octadecanoic acid, monoester with 1,2,3-propanetriol)	31566-31-1	10	30	50	75	mg/m <sup>3</sup>	
1395	Glycidaldehyde	765-34-4	0.025	0.075	0.5	25	ppm	
1396	Glycidol; (Oxiranemethanol)	556-52-5	2	4	30	150	ppm	Added. Outdated PEL-TWA not used.
1397	Glycidoxypropyltrimethoxysilane; (3-(2,3-Epoxypropoxy) propyltrimethyl-oxysilane)	2530-83-8	150	400	500	500	mg/m <sup>3</sup>	Added.
1398	Glycidyl acrylate; (2,3-Epoxypropyl acrylate)	106-90-1	0.125	0.4	2.5	12.5	ppm	Added. Human skin contact TClo not used.
1399	Glycine; (Aminoacetic acid)	56-40-6	25	75	500	500	mg/m <sup>3</sup>	
1400	Glycol carbonate; (Ethylene carbonate)	96-49-1	40	125	500	500	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1401	Glycolic acid	79-14-1	0.75	0.75	0.75	0.75	mg/m <sup>3</sup>	
1402	Glycols, polyethylene, dimethyl ether	24991-55-7	75	200	500	500	mg/m <sup>3</sup>	No pchem data found, SG = 1 assumed.
1403	Glycols, polyethylene, mono(p-nonylphenyl) ether; (Nonoxynol-9)	26027-38-3	0.025	0.075	0.6	60	mg/m <sup>3</sup>	
1404	Glycoluril; (Acetyleneurea)	496-46-8	10	30	50	250	mg/m <sup>3</sup>	No toxicity data
1405	Glyoxal	107-22-2	0.1	35	75	75	mg/m <sup>3</sup>	RTECS data added. T-1, T-2, T-3 changed. See LEL formatting note.
1406	Goethite; (Iron hydroxide oxide)	1310-14-1	5	7.5	12.5	250	mg/m <sup>3</sup>	<b>SAR</b>
1407	Gold	7440-57-5	7.5	25	100	100	mg/m <sup>3</sup>	
1408	Graphite; (Mineral carbon)	7782-42-5	2	6	10	500	mg/m <sup>3</sup>	Names changed.
1409	Grease; (Animal grease, inedible)	68153-81-1	10	30	50	250	mg/m <sup>3</sup>	No toxicity data
1410	Guanidine, N-methyl-N'-nitro-N-nitroso-	70-25-7	0.125	0.35	2.5	40	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1411	Guanidinehydrochloride	50-01-1	2	6	40	200	mg/m <sup>3</sup>	Name corrected. SAX MW wrong
1412	Hafnium	7440-58-6	0.5	1.5	2.5	50	mg/m <sup>3</sup>	
1413	Hafnium oxide	12055-23-1	0.59	1.77	3	59	mg/m <sup>3</sup>	
1414	Halon 1211; (Bromochlorodifluoromethane)	353-59-3	12.5	40	250	5000	ppm	
1415	Hansa yellow	13515-40-7	10	30	50	250	mg/m <sup>3</sup>	
1416	Helium	7440-59-7	65000	65000	230000	400000	ppm	Simple asphyxiant, all Ts changed.
1417	Hematoxylin	517-28-2	10	30	50	50	mg/m <sup>3</sup>	T-3 changed.
1418	Heptachlor	76-44-8	0.5	0.5	0.5	35	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
1419	Heptachlor epoxide; (Epoxyheptachlor)	1024-57-3	0.5	0.5	0.6	6	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
1420	Heptachlorodibenzofuran, 1,2,3,4,6,7,8-; (HeptaCDF, 1,2,3,4,6,7,8-)	67562-39-4	0.06	0.15	1.25	6	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1421	Heptachlorodibenzofuran, 1,2,3,4,7,8,9- ; (HeptaCDF, 1,2,3,4,7,8,9-)	55673-89-7	0.075	0.25	1.5	7.5	mg/m <sup>3</sup>	
1422	Heptachlorodibenzo-p-dioxin, 1,2,3,4,6,7,8-; (HeptaCDD, 1,2,3,4,6,7,8-)	35822-46-9	0.15	0.5	2.5	2.5	mg/m <sup>3</sup>	T-0, T-1 changed.
1423	Heptadecane	629-78-7	15	50	350	<b><i>1500</i></b>	ppm	See LEL formatting note.
1424	Heptafluorobutyric acid	375-22-4	0.6	2	12.5	60	mg/m <sup>3</sup>	
1425	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/m <sup>3</sup>	Added synonym. T-0, T-1, T-2 changed.
1426	Heptane	142-82-5	440	440	440	750	ppm	See LEL formatting note.
1427	Heptanoic acid	111-14-8	5	15	100	600	ppm	
1428	Heptanol, 1-; (Heptyl alcohol)	111-70-6	3.5	10	500	500	mg/m <sup>3</sup>	
1429	Heptene, 1-	592-76-7	1500	5000	40000	200000	ppm	See LEL formatting note.
1430	Hexacarbonylchromium; (Chromium hexacarbonyl)	13007-92-6	0.05	0.1	1.25	1.25	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1431	Hexachloroacetone	116-16-5	0.4	1.25	7.5	200	mg/m <sup>3</sup>	Added.
1432	Hexachlorobenzene	118-74-1	0.002	0.006	2	200	mg/m <sup>3</sup>	T-2 changed.
1433	<b>Hexachlorobutadiene</b>	<b>87-68-3</b>	0.02	1	3	10	ppm	<b>ERPG-1, -2, -3</b>
1434	Hexachlorocyclohexane, alpha-; (Benzene hexachloride-alpha-isomer)	319-84-6	0.5	1.5	50	500	mg/m <sup>3</sup>	T-2 changed.
1435	Hexachlorocyclohexane, beta-1,2,3,4,5,6-; (Benzene hexachloride, trans-alpha-)	319-85-7	0.5	1.5	15	500	mg/m <sup>3</sup>	T-2 changed.
1436	Hexachlorocyclopentadiene	77-47-4	0.01	0.0179	0.0179	0.0179	ppm	
1437	Hexachlorodibenzodioxin, 1,2,3,4,7,8-; (HexaCDD, 1,2,3,4,7,8-)	39227-28-6	0.0004	0.0013	0.0075	0.4	mg/m <sup>3</sup>	
1438	Hexachlorodibenzofuran, 1,2,3,4,7,8-	70648-26-9	0.0025	0.0075	0.06	0.3	mg/m <sup>3</sup>	
1439	Hexachlorodibenzofuran, 1,2,3,6,7,8-	57117-44-9	0.0008	0.0025	0.015	0.075	mg/m <sup>3</sup>	
1440	Hexachlorodibenzofuran, 1,2,3,7,8,9-; (HexaCDF, 1,2,3,7,8,9-)	72918-21-9	0.04	0.125	0.75	4	mg/m <sup>3</sup>	

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1441	Hexachlorodibenzofuran, 2,3,4,6,7,8-	60851-34-5	0.0005	0.0015	0.01	0.05	mg/m <sup>3</sup>	
1442	Hexachlorodibenzo-p-dioxin, 1,2,3,6,7,8-	57653-85-7	0.005	0.015	0.1	0.5	mg/m <sup>3</sup>	SAX differs from other sources, "4" changed to "6"
1443	Hexachlorodibenzo-p-dioxin, 1,2,3,7,8,9-; (HexaCDD, 1,2,3,7,8,9-)	19408-74-3	0.005	0.015	0.1	0.5	mg/m <sup>3</sup>	
1444	Hexachloroethane	67-72-1	1	3	40	300	ppm	T-2 changed.
1445	Hexachloronaphthalene	1335-87-1	0.2	0.2	0.2	2	mg/m <sup>3</sup>	
1446	Hexachlorophene	70-30-4	10	10	20	200	mg/m <sup>3</sup>	
1447	Hexachloropropene	1888-71-7	0.15	0.4	3	15	ppm	
1448	Hexadecanamine, 1-	143-27-1	0.125	0.35	2.5	75	mg/m <sup>3</sup>	
1449	Hexadecane	544-76-3	2.5	7.5	60	500	mg/m <sup>3</sup>	RTECS toxicity data used, T-0, T-1, T-2 changed.
1450	Hexadecanoic acid; (Palmitic acid)	57-10-3	25	50	50	50	mg/m <sup>3</sup>	T-0,T-1, T-2 changed.

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1451	Hexadecanol, 1-	36653-82-4	2.5	7.5	60	300	mg/m <sup>3</sup>	
1452	Hexadecene, 1-	629-73-2	0.4	1.25	10	50	ppm	LD and LC greater than values used
1453	Hexadecylpyridinium chloride, 1-; (Cepacol chloride)	123-03-5	0.075	0.25	2	10	mg/m <sup>3</sup>	
1454	Hexadecyltrimethylammonium chloride	112-02-7	2.5	7.5	50	250	mg/m <sup>3</sup>	Added. Mouse iv LD50 ex HSDB. See LEL formatting note.
1455	Hexafluoro-2-propanol, 1,1,1,3,3,3-	920-66-1	7.5	25	150	750	ppm	Added.
1456	<b>Hexafluoroacetone</b>	<b>684-16-2</b>	0.1	0.15	1	50	ppm	<b>ERPG-2, -3</b>
1457	Hexafluorobenzene	392-56-3	150	500	1500	1500	ppm	Added.
1458	Hexafluorobutyne-2; (1,1,1,4,4,4-Hexafluoro-2-butyne)	692-50-2	0.3	1	6	35	ppm	Added.
1459	Hexafluoroethane; (Freon 116; Perfluoroethane)	76-16-4	40000	40000	40000	40000	ppm	LC > 20 pph
1460	<b>Hexafluoropropylene; (Hexafluoropropene)</b>	<b>116-15-4</b>	0.1	10	50	500	ppm	<b>ERPG-1, -2, -3 in review process. T-0 changed.</b>

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1461	Hexafluoropropylene-vinylidene fluoride; (Viton)	9011-17-0	10	30	50	250	mg/m <sup>3</sup>	TSCA listed, no toxicity data, polymer. MSDS not useful
1462	Hexamethylcyclotrisiloxane	541-05-9	10	30	200	500	mg/m <sup>3</sup>	Based on other silanes
1463	Hexamethyldisilazane	999-97-3	12.5	40	250	350	mg/m <sup>3</sup>	T-0,T-1, T-2 changed.
1464	Hexamethyldisiloxane	107-46-0	40	125	300	300	ppm	See LEL formatting note.
1465	Hexamethylene diisocyanate polymer	28182-81-2	7.5	25	200	500	mg/m <sup>3</sup>	
1466	Hexamethylene diisocyanate; (1,6-Diisocyanatohexane)	822-06-0	0.005	0.015	0.2	3.5	ppm	
1467	Hexamethyleneimine	111-49-9	12.5	40	300	500	mg/m <sup>3</sup>	Added. See LEL formatting note.
1468	Hexamethylenetetraamine hydrochloride	58713-21-6	10	30	50	250	mg/m <sup>3</sup>	
1469	Hexamethylenetetraamine; (Methenamine)	100-97-0	10	30	500	500	mg/m <sup>3</sup>	T-2 changed.
1470	Hexamethylphosphoramidate	680-31-9	0.04	0.125	0.75	150	ppm	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1471	Hexamethyltetracosane, 2,6,10,15,19,23-; (Squalane)	111-01-3	5	15	100	500	ppm	No toxicity data found.
1472	Hexanal	66-25-1	12.5	35	200	200	ppm	
1473	<b>Hexane</b>	<b>110-54-3</b>	50	400	<b><i>3300</i></b>	<b><i>8600</i></b>	ppm	<b>Interim AEWGL-2, -3. See LEL formatting note.</b>
1474	Hexanediol diacrylate, 1,6-	13048-33-4	1	3.5	25	500	mg/m <sup>3</sup>	Added.
1475	Hexanediol, 1,6-; (Hexamethylene glycol)	629-11-8	50	150	500	500	mg/m <sup>3</sup>	
1476	Hexanehexol, 1,2,3,4,5,6-; (Mannitol)	69-65-8	500	500	500	500	mg/m <sup>3</sup>	
1477	Hexanenitrile	628-73-9	0.5	1.5	10	50	ppm	
1478	Hexanethiol, 1-; (N-HEXYLMERCAPTAN)	111-31-9	0.025	0.075	0.5	100	ppm	Added.
1479	Hexanitrostilbene	20062-22-0	0.25	0.75	6	30	mg/m <sup>3</sup>	TSCA listed, no pchem or toxicity data found. Used 4-Nitrostilbene, 4003-94-5, as surrogate.
1480	Hexanoic acid	142-62-1	5	15	100	500	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1481	Hexanol, 2-; (2-Hydroxyhexane)	626-93-7	5	15	100	500	mg/m <sup>3</sup>	
1482	Hexanol, n-; (n-Hexyl alcohol)	111-27-3	0.75	2	15	75	ppm	See LEL formatting note.
1483	Hexanone, 2-; (Methyl n-butyl ketone)	591-78-6	5	10	<b><i>1500</i></b>	<b><i>1600</i></b>	ppm	T-2 changed. See LEL formatting note.
1484	Hexanone, 3-; (Ethyl propyl ketone)	589-38-8	4	12.5	75	400	ppm	See LEL formatting note.
1485	Hexanoyl chloride	142-61-0	1.5	5	35	150	mg/m <sup>3</sup>	Added. TSCA listed, no toxicity data found. MSDS states "corrosive lacrymator, HHR = 3 estimated.
1486	Hexaphenylcyclotrisiloxane	512-63-0	7.5	25	150	500	mg/m <sup>3</sup>	TSCA listed, no toxicity data. MSDS HHR = 2.
1487	Hexene, 1-	592-41-6	30	30	30	30	ppm	See LEL formatting note.
1488	Hexylene glycol	107-41-5	10	25	25	350	ppm	See LEL formatting note.
1489	Holmium	7440-60-0	7.5	25.0	150	500	mg/m <sup>3</sup>	Added.
1490	Holmium trioxide	12055-62-8	10.0	30.0	50	250	mg/m <sup>3</sup>	No toxicity data

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1491	Humic acid, sodium salt	68131-04-4	2	6	40	200	mg/m <sup>3</sup>	No pchem data found.
1492	<b>Hydrazine</b>	<b>302-01-2</b>	0.1	0.1	13	35	ppm	<b>Interim AEGLs. See LEL formatting note.</b>
1493	Hydrazine hydrate, aqueous solutions	10217-52-4	0.03	0.0625	0.0625	0.0625	mg/m <sup>3</sup>	See LEL formatting note. T-0, T-1, T-2 changed.
1494	Hydrazine hydrate; (Hydrazine monohydrate)	7803-57-8	0.003	0.0075	0.0625	50	mg/m <sup>3</sup>	Synonym added. T-2 changed.
1495	Hydrazine hydrochloride; (Hydrazine monochloride)	2644-70-4	0.0075	0.025	0.04	50	mg/m <sup>3</sup>	
1496	Hydrazine nitrate; (Hydrazinium nitrate)	13464-97-6	1	3	5	25	mg/m <sup>3</sup>	
1497	Hydrazine sulfate	10034-93-2	0.6	2	15	250	mg/m <sup>3</sup>	
1498	Hydrazine, dihydrochloride	5341-61-7	25	75	500	500	mg/m <sup>3</sup>	
1499	<b>Hydriodic acid; (Hydrogen iodide)</b>	<b>10034-85-2</b>	0.35	1	22	120	ppm	<b>Interim AEGL-1, -2, -3. All Ts changed.</b>
1500	<b>Hydrobromic acid; (Hydrogen bromide)</b>	<b>10035-10-6</b>	1	1	22	120	ppm	<b>Interim AEGL-1, -2, -3. All Ts changed.</b>

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1501	Hydrogen	1333-74-0	<u><i>65000</i></u>	<u><i>65000</i></u>	<u><i>230000</i></u>	<u><i>400000</i></u>	ppm	Simple asphyxiant, all Ts changed. See LEL formatting note.
1502	<b>Hydrogen chloride; (Hydrochloric acid)</b>	<b>7647-01-0</b>	0.5	1.8	22	100	ppm	<b>Final AEGL-1, -2, -3.</b>
1503	<b>Hydrogen cyanide; (Hydrocyanic acid)</b>	<b>74-90-8</b>	1.9	2	7.1	15	ppm	<b>Final AEGL-1, -2, -3. See LEL formatting note.</b>
1504	<b>Hydrogen fluoride; (Hydrofluoric acid)</b>	<b>7664-39-3</b>	1	1	24	44	ppm	<b>Final AEGL-1, -2, -3.</b>
1505	<b>Hydrogen peroxide</b>	<b>7722-84-1</b>	1	10	50	100	ppm	<b>ERPG-1, -2, -3</b>
1506	Hydrogen peroxide - 30%	7722-84-1a	10	33.3	167	333	ppm	Added. Pchem data ex ChemFinder. CAS RN corrected.
1507	Hydrogen potassium phthalate; (Phthalic acid, monopotassium salt; Potassium acid phthalate; Potassium biphthalate)	877-24-7	12.5	40	250	500	mg/m <sup>3</sup>	Rat LD50 > 3200 mg/kg. Duplicate deleted.
1508	<b>Hydrogen selenide</b>	<b>7783-07-5</b>	0.05	0.1	0.73	2.2	ppm	<b>Interim AEGL-2, -3.</b>
1509	<b>Hydrogen sulfide</b>	<b>7783-06-4</b>	0.51	0.51	27	50	ppm	<b>Interim AEGL-1, -2, -3. See LEL formatting note.</b>
1510	Hydrogenated terphenyl	61788-32-7	0.5	1.5	2.5	500	mg/m <sup>3</sup>	Added.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1511	Hydroquinone	123-31-9	2	3	20	50	mg/m <sup>3</sup>	
1512	Hydrotreated (mild & severe) heavy paraffinic distillates	64742-54-7	60	150	500	500	mg/m <sup>3</sup>	
1513	Hydrotreated Middle Distillate (Petroleum base oil)	64742-46-7	3	7.5	60	300	mg/m <sup>3</sup>	All Ts changed.
1514	Hydroxy-2-methylpropanoic acid, 2-; (2-Methylactic acid)	594-61-6	10	30	50	250	mg/m <sup>3</sup>	No toxicity data
1515	Hydroxy-4'-hydroxyethoxy-2-methylpropiophenone, 2-	106797-53-9	15	50	350	500	mg/m <sup>3</sup>	Name corrected. No pchem data found.
1516	Hydroxy-4-methyl-2-pentanone, 4-; (Diacetone alcohol)	123-42-2	50	50	50	<b>1800</b>	ppm	See LEL formatting note.
1517	Hydroxyapatite; (Calcium hydroxyapatite)	1306-06-5	12.5	35	60	500	mg/m <sup>3</sup>	<b>SAR</b>
1518	Hydroxybenzenesulfonic acid, 4-; (4-Hydroxyphenylsulfonic acid)	98-67-9	25	75	500	500	mg/m <sup>3</sup>	Added.
1519	Hydroxybenzoic acid, 4-; (p-Salicylic acid)	99-96-7	20	60	400	500	mg/m <sup>3</sup>	Added.
1520	Hydroxybenzotriazole, 1-; (1-Hydroxybenzotriazole hydrate)	2592-95-2	40	125	500	500	mg/m <sup>3</sup>	Added. ChemFinder pchem data.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1521	Hydroxyethyl acrylate, 2-; (Acrylic acid-2-hydroxyethyl ester)	818-61-1	0.35	1	6	50	ppm	Added.
1522	Hydroxyethyl methacrylate, 2-	868-77-9	0.1	0.3	2	500	mg/m <sup>3</sup>	
1523	Hydroxyethyl)-1-piperazineethanesulfonic acid, 4-(2-	7365-45-9	1.25	4	25	125	mg/m <sup>3</sup>	Name corrected, quail LD50 > 316 mg/kg
1524	Hydroxyethylenediaminetriacetic acid, n-	150-39-0	1.25	4	30	150	mg/m <sup>3</sup>	
1525	Hydroxyethylidene-1,1-diphosphonic acid, 1-; (Hydroxyethylidine bisphosphonic acid, 1-)	2809-21-4	10	30	50	500	mg/m <sup>3</sup>	Spelling of synonym corrected.
1526	Hydroxylamine	7803-49-8	0.25	0.75	5	25	mg/m <sup>3</sup>	
1527	Hydroxylamine chloride; (Hydroxylamine hydrochloride)	5470-11-1	10	35	60	60	mg/m <sup>3</sup>	T-0, T-1 changed.
1528	Hydroxylamine nitrate	13465-08-2	7.62	15.2	26	150	mg/m <sup>3</sup>	Concentration limits as HNO <sub>3</sub>
1529	Hydroxylamine sulfate; (Oxammonium sulfate)	10039-54-0	4	10	75	400	mg/m <sup>3</sup>	
1530	Hydroxymethanesulfinic acid, monosodium salt; (Formaldehyde hydrosulfite)	149-44-0	15	50	350	500	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1531	Hydroxy-n-phenylbenzamide, N-; (Phenylbenzohydroxamic acid, N-)	304-88-1	10	30	50	250	mg/m <sup>3</sup>	TSCA listed, no toxicity or pchem data found. MSDS data.
1532	Hydroxyphenyl benzothiazole	3411-95-8	35	100	500	500	mg/m <sup>3</sup>	Added.
1533	Hydroxyphenylacetic acid, alpha-	90-64-2	15	50	350	500	mg/m <sup>3</sup>	Name and toxicity data corrected. T-0, T-1, T-2 changed.
1534	Hydroxypropyl cellulose	9004-64-2	40	125	500	500	mg/m <sup>3</sup>	MF, MW ex ChemFinder.
1535	Hydroxyquinoline sulfate, 8-	134-31-6	5	15	100	500	mg/m <sup>3</sup>	
1536	Hypophosphorous acid; (Hydrophosphorus acid-d3 solution, 50 wt.% in D2.O)	57583-56-9	0.75	2.5	15	300	ppm	Added. Not found in databases. MW, MF, SG from MSDS, no HHR. Used CAS RN 13598-36-2, H3,O3.P toxicity.
1537	Hypophosphorus acid; (Phosphinic acid)	6303-21-5	10	30	50	250	mg/m <sup>3</sup>	
1538	Igepal Ca-, 720	26636-32-8	3	7.5	60	300	mg/m <sup>3</sup>	Added.
1539	Imidazole	288-32-4	4	12.5	75	100	mg/m <sup>3</sup>	
1540	Imidazole hydrochloride	1467-16-9	7.5	25	150	500	mg/m <sup>3</sup>	MSDS HHR = 2

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1541	Iminodiacetic acid	142-73-4	1	3	20	100	mg/m <sup>3</sup>	
1542	Iminodiacetic acid, disodium salt hydrate	17593-73-6	35	100	500	500	mg/m <sup>3</sup>	Not found in databases. ChemFinder irritation and pchem data..
1543	Indan	496-11-7	40	125	500	500	mg/m <sup>3</sup>	
1544	Indene	95-13-6	10	10	60	300	ppm	T-2 changed. See LEL formatting note.
1545	Indeno(1,2,3-cd)pyrene	193-39-5	0.15	0.5	3.5	15	mg/m <sup>3</sup>	
1546	Indigo carmine; (FD&C blue No 2)	860-22-0	20	60	75	75	mg/m <sup>3</sup>	
1547	Indium	7440-74-6	0.1	0.1	0.6	3.5	mg/m <sup>3</sup>	T-2 changed.
1548	Indium oxide (vapor)	1312-43-2b	0.107	0.321	0.535	2.5	mg/m <sup>3</sup>	
1549	Indium sulfate	13464-82-9	0.225	0.676	1.13	4	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
1550	Indium trichloride	10025-82-8	0.193	0.578	1	1	mg/m <sup>3</sup>	T-0, T-1 changed.

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1551	Indium(III) oxide	1312-43-2a	0.121	0.363	100	500	mg/m <sup>3</sup>	
1552	Indole-3-carboxaldehyde, 1H-; (3-Formylindole)	487-89-8	0.75	2.5	15	75	ppm	
1553	Iodic acid	7782-68-5	0.139	0.139	0.139	2.77	mg/m <sup>3</sup>	All Ts changed.
1554	Iodide, Ammonium, tetraethyl-; (Tetraethylammoniumiodide)	68-05-3	0.15	0.4	3	15	mg/m <sup>3</sup>	
1555	<b>Iodine</b>	<b>7553-56-2</b>	0.1	0.1	0.5	5	ppm	<b>ERPG-1, -2, -3</b>
1556	Iodine 125	17144-19-3	0.100	0.100	0.500	5	ppm	Used Iodine PACs
1557	Iodobenzene	591-50-4	75	200	500	500	mg/m <sup>3</sup>	Added.
1558	Iodoethane; (Ethyl iodide)	75-03-6	5	15	100	500	ppm	
1559	Iodoheptafluoropropane, 1-; (Heptafluoropropyl iodide)	754-34-7	125	350	2500	12500	ppm	Added. BP and SG ex ChemFinder.
1560	Iodopentane, 1-	628-17-1	4	10	75	400	mg/m <sup>3</sup>	Added.

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1561	Iotalamic acid	2276-90-6	0.06	0.15	1.25	500	mg/m <sup>3</sup>	
1562	Iridium	7439-88-5	6	20	125	500	mg/m <sup>3</sup>	Added. HSDB has three entries, data are conflicting, rat oral LD50 = 4.67 mg/kg or 1560 mg/kg.
1563	Iron	7439-89-6	1.5	4	30	500	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
1564	Iron carbide	12011-67-5	5.36	16.1	26.8	125	mg/m <sup>3</sup>	Treated as insoluble Fe fume. T-0, T-1, T-2 changed.
1565	Iron hydroxide oxide	20344-49-4	15.9	47.7	79.6	400	mg/m <sup>3</sup>	All Ts changed.
1566	Iron oxide; (Ferric oxide)	1309-37-1	5	15	40	500	mg/m <sup>3</sup>	TLV-TWA changed to resp. fr., PEL-TWA ignored. T-0, T-1, T-2 changed.
1567	<b>Iron pentacarbonyl</b>	<b>13463-40-6</b>	0.06	0.06	0.06	0.18	ppm	<b>Interim AEGL-2, -3.</b>
1568	Iron(II) chloride tetrahydrate	13478-10-9	3.56	3.56	7.5	40	mg/m <sup>3</sup>	
1569	Iron(II) perchlorate hexahydrate	13520-69-9	6.33	19	31.6	150	mg/m <sup>3</sup>	Not found in databases, assumed MF, calculated MW. T-0, T-1, T-2 changed.
1570	Iron(II,III) oxide; (Ferrosferric oxide; Iron(III) oxide)	1317-61-9	20.7	31.1	51.8	250	mg/m <sup>3</sup>	No toxicity data. T-0, T-1, T-2 changed.

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1571	Iron(III) perchlorate	13537-24-1	6.34	19	31.7	150	mg/m <sup>3</sup>	TSCA listed, no toxicity or pchem data found. Assumed soluble, ChemFinder catalog irritation ignored. T-0, T-1, T-2 changed.
1572	Iron(III) sulfate heptahydrate	35139-28-7	4.98	14.9	25	500	mg/m <sup>3</sup>	Iron(II) found under CAS RN = 7782-63-0
1573	Isoamyl acetate; (Isopentyl acetate)	123-92-2	100	100	200	<b><i>1000</i></b>	ppm	See LEL formatting note.
1574	Isoamyl alcohol (primary); (3-Methyl-1-butanol)	123-51-3	100	125	125	500	ppm	See LEL formatting note.
1575	Isoamyl alcohol (secondary); (3-Pentanol)	584-02-1	100	125	125	500	ppm	See LEL formatting note.
1576	Isoamyl nitrite; (Isopentyl nitrite)	110-46-3	3	7.5	60	300	ppm	See LEL formatting note.
1577	Isobenzan	297-78-9	0.5	1.5	2	2	mg/m <sup>3</sup>	T-0, T-1 changed.
1578	Isobutanol-2-amine	124-68-5	0.03	0.075	0.6	500	mg/m <sup>3</sup>	
1579	Isobutyl acetate	110-19-0	150	150	250	<b><i>1300</i></b>	ppm	See LEL formatting note.
1580	Isobutyl alcohol	78-83-1	100	<b><i>1250</i></b>	<b><i>1600</i></b>	<b><i>1600</i></b>	ppm	T-1, T-2 changed. See LEL formatting note.

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

**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1581	Isobutyl chloride; (1-Chloro-2-methylpropane)	513-36-0	0.4	1.25	7.5	40	ppm	No toxicity data found.
1582	Isobutyl isobutyrate	97-85-8	150	500	500	500	mg/m <sup>3</sup>	See LEL formatting note.
1583	Isobutylamine	78-81-9	5	5	6	35	ppm	See LEL formatting note.
1584	Isobutyraldehyde	78-84-2	25	300	1500	1500	ppm	WEEL-TWA added. RTECS data used. T-0 changed. See LEL formatting note.
1585	Isobutyric acid	79-31-2	0.3	1	6	35	ppm	
1586	Isobutyric anhydride; (2-Methylpropionic anhydride)	97-72-3	0.1	0.3	2	10	ppm	Added. No toxicity data found. Rat LC50 based on HHR = 3.
1587	<b>Isobutyronitrile</b>	<b>78-82-0</b>	8	10	18	68	ppm	<b>Interim AEGL-2, -3, ERPG-1, -2, -3.</b>
1588	Isocyanate-bearing waste (as CNs N.O.S.)	z-0024	5	5	5	25	mg/m <sup>3</sup>	
1589	<b>Isocyanatoethyl methacrylate, 2-</b>	<b>30674-80-7</b>	0.02	0.06	0.1	1	ppm	<b>ERPG-2, -3.</b>
1590	Isocyanic acid	75-13-8	0.04	0.1	0.75	4	ppm	Added. Not found in databases. Lewis' Toxicology states "irritant to skin and eyes ... will blister skin on contact".

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1591	Isocyanic acid-3,4-dichlorophenyl ester; (3,4-Dichlorophenyl isocyanate)	102-36-3	2.5	7.5	14	500	mg/m <sup>3</sup>	SAX and RTECS tox data conflict
1592	Isodrin	465-73-6	1.25	4	7	7	mg/m <sup>3</sup>	
1593	Isonate 181 MDI prepolymer	z-0113	7.5	25	100	225	mg/m <sup>3</sup>	Used 25% 26447-40-5, 25% 101-68-8, 25% 68092-58-0/, 25% z-0112)
1594	Isooctane; (2,2,4-Trimethylpentane)	540-84-1	300	385	385	1000	ppm	Duplicate deleted. PEL-TWA suppressed.
1595	Isopentane; (Ethyl dimethylmethane; 2-Methylbutane)	78-78-4	610	610	610	<u>20000</u>	ppm	See LEL formatting note.
1596	Isophorone	78-59-1	5	5	5	200	ppm	See LEL formatting note.
1597	Isophorone diisocyanate	4098-71-9	0.005	0.02	0.135	6	ppm	
1598	Isophthalic acid	121-91-5	10	30	50	500	mg/m <sup>3</sup>	WEEL-TWA added. T-0, T-1, T-2 changed.
1599	<b>Isoprene</b>	<b>78-79-5</b>	2	5	<i>1000</i>	<i>4000</i>	ppm	<b>ERPG-1, -2, -3. See LEL formatting note.</b>
1600	Isopropyl acetate	108-21-4	250	310	310	<i>1800</i>	ppm	See LEL formatting note.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1601	Isopropyl alcohol	67-63-0	400	400	<i>2000</i>	<i>2000</i>	ppm	See LEL formatting note.
1602	Isopropyl chloride; (2-Chloropropane)	75-29-6	50	150	<u><i>15000</i></u>	<u><i>15000</i></u>	ppm	WEEL-TWA added. T-0, T-1 changed. See LEL formatting note.
1603	<b>Isopropyl chloroformate; (Isopropyl chlorocarbonate)</b>	<b>108-23-6</b>	0.15	0.4	3.3	10	ppm	<b>AEGL-2, -3</b>
1604	Isopropyl ether; (Diisopropyl ether)	108-20-3	310	310	310	<i>1400</i>	ppm	Synonym corrected, toxicity data changed, T-2 changed. See LEL formatting note.
1605	<b>Isopropyl methanefluorophosphate; (Sarin; GB)</b>	<b>107-44-8</b>	0.0002	0.0005	0.006	0.022	ppm	<b>Final AEGL-1, -2, -3.</b>
1606	Isopropyl nitrate	1712-64-7	1.5	5	150	750	ppm	RTECS replaced SAX data. T-2, T-3 changed.
1607	Isopropyl titanate(IV); (Titanium(IV) isopropoxide)	546-68-9	30	75	500	500	mg/m <sup>3</sup>	
1608	Isopropylamine; (2-Propanamine)	75-31-0	5	10	150	750	ppm	T-2 changed. See LEL formatting note.
1609	Isopropylmagnesium chloride; (Chloro (1-methylethyl) magnesium)	1068-55-9	1	3	20	100	mg/m <sup>3</sup>	No toxicity data. Rat LD50 estimated from other Mg compounds
1610	Isopropylmethylpyrazolyl dimethylcarbamate; (Isolan)	119-38-0	1	3.5	5.6	5.6	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1611	Isopropyltoluene, 4-; (p-Cymene)	99-87-6	75	250	500	500	mg/m <sup>3</sup>	Added. See LEL formatting note.
1612	Jeffamine M-600	77110-54-4	10	30	50	250	mg/m <sup>3</sup>	Not found in databases, no MSDS, assumed nonvolatile.
1613	<b>Jet fuels (JP-5 and JP-8)</b>	<b>70892-10-3</b>	100	290	500	500	mg/m <sup>3</sup>	<b>Interim AEGL-1, -2. (also CAS RN = 8008-20-6), PAC-3 is restricted to 500 mg/m<sup>3</sup>, which limits PAC-2.</b>
1614	Kaolin; (Aluminum silicate hydroxide)	1332-58-7	5	6	125	500	mg/m <sup>3</sup>	T-2 changed.
1615	Kepone; (Chlordecone)	143-50-0	0.001	0.003	0.6	40	mg/m <sup>3</sup>	T-2 changed.
1616	<b>Kerosene</b>	<b>8008-20-6</b>	100	290	500	500	mg/m <sup>3</sup>	<b>AEGL-1, -2.TLV-TWA = 200 mg/m<sup>3</sup> suppressed. See LEL formatting note.</b>
1617	Ketene; (Carbomethene, Ethenone)	463-51-4	0.5	1.5	1.5	5	ppm	
1618	Krypton	7439-90-9	65000	65000	230000	400000	ppm	Simple asphyxiant, all Ts changed.
1619	Lactic acid	50-21-5	15	40	300	500	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1620	Lactic acid, sodium salt, DI-; (Propanoic acid, 2-hydroxy-, monosodium salt)	312-85-6	10	30	50	250	mg/m <sup>3</sup>	Added. TSCA listed, no toxicity or pchem data found.
1621	Lactonitrile	78-97-7	3.5	10	18	150	mg/m <sup>3</sup>	
1622	Lactose, beta-D; (beta-D-Glucopyranose)	5965-66-2	10	30	50	250	mg/m <sup>3</sup>	No toxicity data
1623	Lanthanum	7439-91-0	10	30	50	250	mg/m <sup>3</sup>	
1624	Lanthanum alizarin (as La)	z-0026	10	30	50	250	mg/m <sup>3</sup>	
1625	Lanthanum boride	12008-21-8	14.7	44	75	350	mg/m <sup>3</sup>	Used PNOS default as La. T-1 changed.
1626	Lanthanum carbonate	6487-39-4	10	30	50	250	mg/m <sup>3</sup>	
1627	Lanthanum chloride	10099-58-8	6	20	125	500	mg/m <sup>3</sup>	
1628	Lanthanum fluoride	13709-38-1	8.59	8.59	50	250	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
1629	Lanthanum hydroxide	14507-19-8	0.2	0.75	2	2.5	mg/m <sup>3</sup>	<b>SAR</b>

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1630	Lanthanum nitrate	10099-59-9	0.4	1.25	7.5	500	mg/m <sup>3</sup>	
1631	Lanthanum oxide	1312-81-8	40	125	500	500	mg/m <sup>3</sup>	
1632	Lanthanum phosphate	14913-14-5	0.3	0.75	3	3	mg/m <sup>3</sup>	<b>SAR</b>
1633	Lanthanum(III) nitrate hexahydrate	10277-43-7	1.5	5	35	150	mg/m <sup>3</sup>	
1634	Lauryl sulfate; (Dodecyl sulfate)	151-41-7	5	15	100	500	mg/m <sup>3</sup>	Added.
1635	Lead	7439-92-1	0.05	0.15	0.25	100	mg/m <sup>3</sup>	
1636	Lead acetate(II), trihydrate; (Bis(acetato)trihydroxytrilead)	6080-56-4	0.0915	0.275	100	183	mg/m <sup>3</sup>	All Ts changed.
1637	Lead acetate, basic; (Lead subacetate)	1335-32-6	0.065	0.195	130	130	mg/m <sup>3</sup>	All Ts changed.
1638	Lead acetate; (Lead diacetate)	301-04-2	0.0785	0.235	75	157	mg/m <sup>3</sup>	All Ts changed.
1639	Lead acid arsenate; (Dibasic lead arsenate)	7784-40-9	0.0838	0.251	168	168	mg/m <sup>3</sup>	T-0, T-2, T-3 changed.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1640	Lead arsenate	3687-31-8	0.012	0.012	0.012	30	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
1641	Lead bromide	10031-22-8	0.0886	0.266	0.443	177	mg/m <sup>3</sup>	All Ts changed.
1642	Lead carbonate	598-63-0	0.0645	0.193	4	500	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
1643	Lead chloride	7758-95-4	0.0671	0.201	7.5	134	mg/m <sup>3</sup>	T-0, T-2, T-3 changed.
1644	Lead chromate	7758-97-6	0.0311	0.186	1	93.2	mg/m <sup>3</sup>	New OSHA PEL-TWA. All Ts changed.
1645	Lead dioxide	1309-60-0	0.0577	0.1731	20	115	mg/m <sup>3</sup>	All Ts changed.
1646	Lead fluoborate	13814-96-5	0.0919	0.276	0.459	184	mg/m <sup>3</sup>	Only stable in aqueous solution. All Ts changed.
1647	Lead fluoride	7783-46-2	0.0592	0.178	12.5	118	mg/m <sup>3</sup>	T-1, T-2, T-3 changed.
1648	Lead hydroxide	19783-14-3	0.0582	0.175	0.3	1.5	mg/m <sup>3</sup>	T-0, T-1 changed.
1649	Lead iodide	10101-63-0	0.111	0.334	0.556	222	mg/m <sup>3</sup>	All Ts changed.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1650	Lead nitrate	10099-74-8	0.0799	0.6	4	160	mg/m <sup>3</sup>	All Ts changed.
1651	Lead nitrite	13826-65-8	0.0722	0.217	0.361	1.5	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
1652	Lead oxalate	814-93-7	0.0712	0.214	0.356	1.5	mg/m <sup>3</sup>	T-0, T-1 changed.
1653	Lead oxide; (Lead monoxide)	1317-36-8	0.0539	0.0539	0.0539	108	mg/m <sup>3</sup>	All Ts changed.
1654	Lead phosphate	7446-27-7	0.0653	0.196	30	150	mg/m <sup>3</sup>	T-0 changed.
1655	Lead sulfate; (Lead(II) sulfate (1:1))	7446-14-2	0.0732	0.2196	30	146	mg/m <sup>3</sup>	OHMTADS, TSCA, ChemFinder list CAS RN = 15739-80-7, deleted as a separate entry.
1656	Lead sulfide	1314-87-0	0.0577	0.173	350	500	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
1657	Lead tetroxide	1314-41-6	0.0551	0.165	0.276	110	mg/m <sup>3</sup>	All Ts changed.
1658	Lead(II) arsenite	10031-13-7	0.0281	0.0843	0.14	14	mg/m <sup>3</sup>	All Ts changed.
1659	Lead(II) perchlorate hydrate	13453-62-8	0.111	0.333	0.555	100	mg/m <sup>3</sup>	Not found in databases. ChemFinder pchem data. T-0, T-1, T-2 changed.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1660	Leco set 7007 powder	z-0027	10	30	50	250	mg/m <sup>3</sup>	Mixture: 80-62-6 (94-96%), 2082-81-7 (3%), 5995-42-6 (>8%), 99-97-8 (0.7%)
1661	Leptophos	21609-90-5	6	15	30	30	mg/m <sup>3</sup>	
1662	<b>Lewisite 2; (Bis(2-chlorovinyl)chloroarsine)</b>	<b>40334-69-8</b>	0.12	0.12	0.12	0.74	mg/m <sup>3</sup>	<b>AEGLS-2,-3. RTECS listed.</b>
1663	<b>Lewisite 3; (Tris(2-chlorovinyl)arsine)</b>	<b>40334-70-1</b>	0.12	0.12	0.12	0.74	mg/m <sup>3</sup>	<b>AEGLs-2, -3</b>
1664	Lignosulfonate (aqueous)	8062-15-5	10	30	500	500	mg/m <sup>3</sup>	
1665	Limonene, d-	5989-27-5	30	90	150	350	ppm	WEEL CAS RN = 138-86-3. HSDB: (L)-Limonene for CAS RN = 5989-54-8. H&N has both. See LEL formatting note.
1666	Lindane; (gamma-Benzenehexachloride)	58-89-9	0.5	1.5	50	50	mg/m <sup>3</sup>	
1667	Linseed oil	8001-26-1	0.5	1.5	10	60	mg/m <sup>3</sup>	
1668	Liquified petroleum gas; (L.P.G.)	68476-85-7	1000	<i>2000</i>	<i>2000</i>	<i>2000</i>	ppm	See LEL formatting note.
1669	Lithium	7439-93-2	10	30	50	400	mg/m <sup>3</sup>	

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1670	Lithium acetate dihydrate	6108-17-4	12.5	35	250	500	mg/m <sup>3</sup>	Used Li acetate, CAS RN = 546-89-4, mouse LD <sub>50</sub>
1671	Lithium aluminate	12003-67-7	12.2	36.6	61.1	300	mg/m <sup>3</sup>	TSCA listed, no toxicity data. T-0, T-1 changed.
1672	Lithium aluminum oxide; (Lithium aluminate)	11089-89-7	10	30	50	250	mg/m <sup>3</sup>	
1673	Lithium aluminum silicate; (Spodumene (mineral); Petalite)	1302-66-5	2	6	10	50	mg/m <sup>3</sup>	
1674	Lithium azide	19597-69-4	10	10	10	10	mg/m <sup>3</sup>	
1675	Lithium borohydride; (Lithium tetraborate)	16949-15-8	4.03	12.1	20.2	35	mg/m <sup>3</sup>	Added.
1676	Lithium bromide	7550-35-8	1	7	15	500	mg/m <sup>3</sup>	
1677	Lithium carbonate	554-13-2	0.2	0.6	4	200	mg/m <sup>3</sup>	Lower TD lo found. T-0, T-1, T-2 changed.
1678	Lithium chloride	7447-41-8	0.5	1.5	10	60	mg/m <sup>3</sup>	
1679	Lithium chromate; (Lithium chromate dihydrate}	14307-35-8	0.016	0.479	0.798	47.9	mg/m <sup>3</sup>	New OSHA PEL-TWA, all Ts changed.

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1680	Lithium deuteride	13587-16-1	0.0282	0.0282	0.1	0.5	mg/m <sup>3</sup>	Used Lithium hydride limits.
1681	Lithium diisopropylamide; (LDA)	4111-54-0	10	30	50	250	mg.m <sup>3</sup>	Added. TSCA listed, MF differs from ChemFinder, no toxicity data found.
1682	Lithium fluoride	7789-24-4	3.41	10.2	17.1	341	mg/m <sup>3</sup>	T-0, T-2, T-3 changed.
1683	<b>Lithium hydride</b>	<b>7580-67-8</b>	0.025	0.025	0.1	0.5	mg/m <sup>3</sup>	<b>ERPG-1, -2, -3</b>
1684	Lithium hydroxide	1310-65-2	0.05	0.15	1	100	mg/m <sup>3</sup>	
1685	Lithium hydroxide monohydrate	1310-66-3	0.05	0.15	1	100	mg/m <sup>3</sup>	Not found in databases, used LiOH, CAS RN 1310-65-2, values.
1686	Lithium iodide	10377-51-2	10	30	50	250	mg/m <sup>3</sup>	TSCA, HC&P, H&N listed, no toxicity data.
1687	Lithium metaborate, anhydrous	13453-69-5	2	6	10	50	mg/m <sup>3</sup>	MW and MF ex HC&P. All Ts changed.
1688	Lithium molybdate	13568-40-6	9.06	27.2	45.3	200	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
1689	Lithium niobium oxide; (Lithium niobate)	12031-63-9	5	15	25	500	mg/m <sup>3</sup>	

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1690	Lithium nitrate	7790-69-4	10	30	50	250	mg/m <sup>3</sup>	T-1, T-2, T-3, changed.
1691	Lithium nitride	26134-62-3	10	10	10	10	mg/m <sup>3</sup>	Reacts with water
1692	Lithium nitrite	13568-33-7	0.025	0.06	0.4	40	mg/m <sup>3</sup>	HC&P: LiNO <sub>2</sub> .H <sub>2</sub> O MW = 127.96, CAS RN = 13568-33-7. TSCA: Li.H.NO <sub>2</sub> SAR
1693	Lithium perchlorate, anhydrous	7791-03-9	0.0005	0.0015	0.01	0.06	mg/m <sup>3</sup>	IRIS LOEL used, no ther toxicity data found
1694	Lithium stearate	4485-12-5	60	150	500	500	mg/m <sup>3</sup>	Probable hmn LD = 0.5-5 g/kg
1695	Lithium sulfate	10377-48-7	0.15	0.5	3.5	500	mg/m <sup>3</sup>	
1696	Lithium tetraborate	12007-60-2	10	30	50	250	mg/m <sup>3</sup>	TSCA, H&N, ChemFinder listed, no toxicity data found. MW=169.12 without 5H <sub>2</sub> O.
1697	Lithium tetraborate pentahydrate	1303-94-2	1	3	5	25	mg/m <sup>3</sup>	MF, MW by analogy with Na tetraborate pentahydrate. All Ts changed.
1698	Lithium tetrahydroaluminate(1-); (Lithium aluminum hydride)	16853-85-3	2.81	2.81	7.5	35	mg/m <sup>3</sup>	Al soluble salt. T-0, T-1 changed.
1699	Lithium triethylborodeuteride; (Super-deuteride)	74540-86-6	10	30	50	250	mg/m <sup>3</sup>	Added. Not found in databases. MW, MF, SG ex ChemFinder.

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

**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1700	Lithium triethylborohydride, super-hydride	22560-16-3	1.5	5	35	150	mg/m <sup>3</sup>	Added. Not listed in databases. MSDS gives HHR = 3
1701	Lubricating oil, rerefined	68476-77-7	10	30	50	250	mg/m <sup>3</sup>	Added. TSCA listed, no toxicity or pchem data.
1702	Lutetium	7439-94-3	1.5	5	35	150	mg/m <sup>3</sup>	Added. TSCA listed, no toxicity data. SRS HHR = 3
1703	Lutetium oxide	12032-20-1	10	30	50	250	mg/m <sup>3</sup>	
1704	Lutidine, 2,6-; (2,6-Dimethylpyridine)	108-48-5	75	200	1500	7500	ppm	Added.
1705	Magnesium	7439-95-4	10	30	50	250	mg/m <sup>3</sup>	
1706	Magnesium acetate tetrahydrate	16674-78-5	0.75	2.5	20	100	mg/m <sup>3</sup>	Not found in databases, used Mg acetate, CAS RN = 142-72-3
1707	Magnesium carbonate hydroxide	7760-50-1	10	30	50	250	mg/m <sup>3</sup>	TSCA listed, no toxicity data, MF, MW from H&N.
1708	Magnesium carbonate; (Magnesite)	546-93-0	15	30	50	250	mg/m <sup>3</sup>	
1709	Magnesium carbonate-magnesium hydroxide, pentahydrate	39409-82-0	48.8	97.7	163	500	mg/m <sup>3</sup>	Not found in databases. MF, MW ex ChemFinder. MSDS PEL-TWA. T-0, T-1, T-2 changed.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1710	Magnesium chloride	7786-30-3	10	30	50	500	mg/m <sup>3</sup>	
1711	Magnesium chloride hexahydrate	7791-18-6	75	250	500	500	mg/m <sup>3</sup>	
1712	Magnesium ethoxide	2414-98-4	47.1	141	235	500	mg/m <sup>3</sup>	TSCA listed, no toxicity or pchem data. T-0, T-1, T-2 changed.
1713	Magnesium fluoride	7783-40-6	4.1	12.3	20.5	410	mg/m <sup>3</sup>	T-0, T-2, T-3 changed.
1714	Magnesium formate	557-39-1	10	30	50	250	mg/m <sup>3</sup>	TSCA listed, no data found. Changed "Y" to "N", T-1, T-2, T-3 changed.
1715	Magnesium hydroxide	1309-42-8	75	200	500	500	mg/m <sup>3</sup>	
1716	Magnesium iodate tetrahydrate	7790-32-1	10	30	50	250	mg/m <sup>3</sup>	TSCA listed, no toxicity data. MSDS solid.
1717	Magnesium nitrate hexahydrate	13446-18-9	20	60	400	500	mg/m <sup>3</sup>	Primary irritant, no toxicity data.
1718	Magnesium nitrate; (Magnesium(II) nitrate (1:2))	10377-60-3	10	30	50	250	mg/m <sup>3</sup>	
1719	Magnesium oxide	1309-48-4	10	30	150	500	mg/m <sup>3</sup>	T-2 changed.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1720	Magnesium silicate hydrate	1343-90-4	10	30	50	250	mg/m <sup>3</sup>	
1721	Magnesium silicate; (Florisol)	1343-88-0	10	30	50	500	mg/m <sup>3</sup>	Human LD > 15 g/kg
1722	Magnesium sulfate (1:1)	7487-88-9	0.5	1.5	10	125	mg/m <sup>3</sup>	
1723	Magnesium sulfate heptahydrate	10034-99-8	5	15	100	500	mg/m <sup>3</sup>	
1724	Magnesium(II) nitrate (1:2), hexahydrate	10213-15-7	20	60	400	500	mg/m <sup>3</sup>	
1725	Malathion	121-75-5	15	30	50	250	mg/m <sup>3</sup>	
1726	Maleic acid	110-16-7	3	7.5	60	300	mg/m <sup>3</sup>	PNOS deleted, not appropriate. T-0, T-1 changed.
1727	Maleic acid, disodium salt	371-47-1	25	75	500	500	mg/m <sup>3</sup>	No pchem data found.
1728	<b>Maleic anhydride</b>	<b>108-31-6</b>	0.2	0.2	2	20	ppm	<b>ERPG-1, -2, -3. See LEL formatting note.</b>
1729	Maleic hydrazide; (3,6-Pyridazinedione,1,2-dihydro-)	123-33-1	0.6	2	12.5	500	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1730	Malic acid, DL-	617-48-1	6	20	125	500	mg/m <sup>3</sup>	HSDB, TSCA listed. Mouse LD50 1600-3200 mg/kg
1731	Malonic acid; (Carboxyacetic acid)	141-82-2	10	15	100	500	mg/m <sup>3</sup>	T-2 changed.
1732	Mancozeb; (Dithane M-45)	8018-01-7	1	3	200	500	mg/m <sup>3</sup>	Added.
1733	Manganese	7439-96-5	0.2	3	5	500	mg/m <sup>3</sup>	
1734	Manganese carbonate	598-62-9	0.418	6.28	10.5	500	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
1735	Manganese dioxide	1313-13-9	0.317	4.75	79.1	500	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
1736	Manganese hydroxide	18933-05-6	0.324	4.86	8.1	500	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
1737	Manganese nitrite	z-0029	0.535	8.02	13.4	500	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
1738	Manganese oxalate	640-67-5	0.52	7.81	13	500	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
1739	Manganese oxide; (Manganese tetroxide)	1317-35-7	0.278	0.833	69.4	500	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1740	Manganese phosphate	10124-54-6	0.43	6.46	10.8	500	mg/m <sup>3</sup>	x = 5 for MW given. T-0, T-1, T-2 changed.
1741	Manganese tricarbonyl methylcyclopentadienyl	12108-13-3	0.6	0.6	0.6	7.5	mg/m <sup>3</sup>	
1742	Manganese(II) chloride (1:2); (Manganous chloride)	7773-01-5	0.458	6.87	11.5	100	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
1743	Manganese(II) chloride tetrahydrate	13446-34-9	0.721	10.8	180	500	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
1744	Manganese(II) nitrate	10377-66-9	0.651	9.77	16.3	500	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
1745	Manganese(II) nitrate hydrate	15710-66-4	0.717	10.8	17.9	500	mg/m <sup>3</sup>	Not found in databases. T-0, T-1, T-2 changed.
1746	Manganese(II) sulfate monohydrate	10034-96-5	0.615	9.23	15.4	75	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
1747	Manganese(III) oxide	1317-34-6	0.287	4.31	71.8	500	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
1748	Manganese(VII) oxide	12057-92-0	0.404	6.06	10.1	50	mg/m <sup>3</sup>	
1749	Manganous oxide; (Manganese(II) oxide)	1344-43-0	0.258	0.775	6.46	150	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1750	Manganous sulfate	7785-87-7	0.55	8.25	13.7	500	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
1751	Manganous sulfide; (Manganese(II) sulfide)	18820-29-6	0.317	0.95	7.92	500	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
1752	Mastic (resin)	61789-92-2	4	12.5	100	500	mg/m <sup>3</sup>	
1753	Melamine	108-78-1	10	10	10	350	mg/m <sup>3</sup>	New WEEL and toxicity data. All Ts changed.
1754	Mephosfolan	950-10-7	1.5	5	9	9	mg/m <sup>3</sup>	
1755	Mercaptoacetic acid; (Thioglycolic acid)	68-11-1	1	1	1.25	6	ppm	Added. See LEL formatting note.
1756	Mercaptobenzoic acid, O-	147-93-3	0.2	0.6	4	20	mg/m <sup>3</sup>	
1757	Mercaptobenzothiazole, 2-; (2-Benzothiazolethiol)	149-30-4	5	15	40	40	mg/m <sup>3</sup>	Synonym corrected, WEEL-TWA added, T-0, T-1, T-3 changed.
1758	Mercaptoethanol, 2-	60-24-2	0.2	2	12.5	200	ppm	WEEL-TWA added, T-0, T-1, T-2 changed. See LEL formatting note.
1759	Mercaptopropionic acid, 3-	107-96-0	0.25	0.75	6	40	mg/m <sup>3</sup>	Added. See LEL formatting note.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1760	Mercuric acetate	1600-27-7	0.01	0.03	0.1	2	mg/m <sup>3</sup>	
1761	Mercuric cyanide	592-04-1	0.025	0.1	10	10	mg/m <sup>3</sup>	
1762	Mercuric iodide; (Mercury(II) iodide)	7774-29-0	0.0566	0.17	0.227	22.7	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
1763	Mercuric sulfate; (Mercury(II) sulfate)	7783-35-9	0.037	0.148	0.148	14.8	mg/m <sup>3</sup>	T-0, changed.
1764	Mercuric thiocyanate; (Mercuric sulfocyanate)	592-85-8	0.0395	0.118	0.158	15.8	mg/m <sup>3</sup>	T-1, T-2, T-3 changed.
1765	Mercuric trifluoroacetate	13257-51-7	0.0213	0.0638	0.0851	4.3	mg/m <sup>3</sup>	Added.
1766	Mercuriol; (Mercury nucleate)	12002-19-6	0.025	0.075	0.1	10	mg/m <sup>3</sup>	
1767	Mercurous chloride (see also MCY300)	7546-30-7	0.0294	0.0883	0.118	11.8	mg/m <sup>3</sup>	T-1, T-2, T-3 changed.
1768	Mercurous nitrate monohydrate	7782-86-7	0.0351	0.14	0.14	14	mg/m <sup>3</sup>	T-1, T-2, T-3 changed.
1769	Mercurous nitrate; (Mercury(I) nitrate(1:1))	10415-75-5	0.0327	0.131	0.131	13.1	mg/m <sup>3</sup>	All Ts changed.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1770	Mercurous oxide	15829-53-5	0.026	0.104	0.104	10.4	mg/m <sup>3</sup>	All Ts changed.
1771	Mercury hydroxide	12135-13-6	0.0292	0.117	0.117	11.7	mg/m <sup>3</sup>	All Ts changed.
1772	Mercury nitrate; (Mercury(II) nitrate (1:2))	10045-94-0	0.0405	0.162	0.162	16.2	mg/m <sup>3</sup>	T-1, T-2, T-3 changed.
1773	Mercury nitrite	13492-25-6	0.0365	0.146	0.146	14.6	mg/m <sup>3</sup>	LLNL has CAS RN = 18541-72-5. All Ts changed.
1774	<b>Mercury vapor</b>	<b>7439-97-6</b>	0.025	0.1	1.7	8.9	mg/m <sup>3</sup>	<b>AEGL-2, -3 for Hg vapor; ERPG-2 &amp; -3 = 0.25 &amp; 0.5 ppm, converted to mg/m<sup>3</sup></b>
1775	Mercury(I) chloride	10112-91-1	0.0294	0.0883	1.18	11.8	mg/m <sup>3</sup>	Light sensitive. T-1, T-2, T-3 changed.
1776	Mercury(II) chloride	7487-94-7	0.0338	0.135	13.5	13.5	mg/m <sup>3</sup>	All Ts changed.
1777	Mercury(II) nitrate monohydrate	7783-34-8	0.0427	0.128	0.171	17.1	mg/m <sup>3</sup>	All Ts changed.
1778	Mercury(II) oxide; (Mercuric oxide)	21908-53-2	0.027	0.108	1.08	10.8	mg/m <sup>3</sup>	All Ts changed.
1779	Mesitylene; (1,3,5-Trimethyl benzene)	108-67-8	25	25	25	500	ppm	See LEL formatting note.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1780	Metaphosphoric acid	37267-86-0	10	30	50	250	mg/m <sup>3</sup>	TSCA, HC&P listed, no toxicity data, pchem data ex ChemFinder. Changed "Y" to "N", T-1, T-2, T-3 changed.
1781	Methacrolein diacetate; (Acetic acid, 2-methyl-2-propene-1,1-diol diester)	10476-95-6	7.5	25	44	44	mg/m <sup>3</sup>	Synonym spelling corrected. SAX and RTECS tox data differ
1782	Methacrylaldehyde	78-85-3	0.125	0.4	2.5	12.5	ppm	
1783	Methacrylamide	79-39-0	0.015	0.04	0.3	200	mg/m <sup>3</sup>	
1784	<b>Methacrylic acid</b>	<b>79-41-4</b>	6.7	6.7	61	220	ppm	<b>Interim AEGL-1, -2, -3. See LEL formatting note.</b>
1785	Methacrylic acid diester with triethylene glycol; (Polyester TGM3)	109-16-0	10	30	50	500	mg/m <sup>3</sup>	
1786	Methacrylic anhydride	760-93-0	0.75	2.5	4.5	150	mg/m <sup>3</sup>	
1787	<b>Methacrylonitrile; (Methylacrylonitrile)</b>	<b>126-98-7</b>	1	1	13	25	ppm	<b>Interim AEGL-1, -2, -3. See LEL formatting note.</b>
1788	Methacryloyl chloride	920-46-7	0.025	0.075	0.14	6	ppm	
1789	Methamidophos	10265-92-6	3.5	10	60	60	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1790	Methane	74-82-8	1000	3000	<i>5000</i>	<u><i>200000</i></u>	ppm	TLV-TWA for aliphatic hydrocarbon gas. T-3 changed. See LEL formatting note.
1791	Methane (d-3)	676-80-2	1000	3000	5000	25000	ppm	Added. TLV-TWA for aliphatic hydrocarbon gases.
1792	Methanesulfonic acid	75-75-2	4	12.5	75	400	mg/m <sup>3</sup>	
1793	Methanesulfonic acid, ethyl ester; (Ethyl methanesulfonate)	62-50-0	0.5	1.5	10	150	mg/m <sup>3</sup>	
1794	Methanesulfonyl chloride	124-63-0	1.5	4	20	20	mg/m <sup>3</sup>	
1795	Methanesulfonyl fluoride	558-25-8	3.49	3.49	3.49	3.49	ppm	
1796	Methidathion; (O,O'-Dimethyl-S-(5-methoxy-1,3,4-thiadiazoliny)-3-methylthiophosphate)	950-37-8	1	3	20	400	mg/m <sup>3</sup>	
1797	Methiocarb; (Mercaptodimethur)	2032-65-7	3	7.5	15	15	mg/m <sup>3</sup>	
1798	Methomyl	16752-77-5	2.5	7.5	10	200	mg/m <sup>3</sup>	
1799	Methoxybenzaldehyde; (p-Anisaldehyde)	123-11-5	0.075	0.2	1.5	500	mg/m <sup>3</sup>	Added.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1800	Methoxybenzyl alcohol, 4-	105-13-5	7.5	25	200	500	mg/m <sup>3</sup>	Added.
1801	Methoxychlor	72-43-5	15	30	250	500	mg/m <sup>3</sup>	T-2 changed.
1802	Methoxyethoxy)ethanol, 2-(2-; (Diethylene glycol monomethyl ether)	111-77-3	0.35	0.35	0.35	0.35	ppm	See LEL formatting note.
1803	Methoxyethylamine, 2-	109-85-3	0.5	1.5	10	50	ppm	See LEL formatting note.
1804	Methoxyethylmercuric acetate	151-38-2	0.0159	0.0477	3.18	3.18	mg/m <sup>3</sup>	All Ts changed.
1805	Methoxyphenol, P-	150-76-5	5	15	100	500	mg/m <sup>3</sup>	T-2 changed.
1806	Methoxypropylamine, 3-; (3-MPA)	5332-73-0	5	15	15	40	ppm	Toxicity data changed, T-3 changed.
1807	Methoxytrimethylsilane	1825-61-2	0.05	0.5	2	5	ppm	<b>SAR</b>
1808	Methyl 2-cyanoacrylate; (Permabond 910 adhesive)	137-05-3	0.2	4	12.5	12.5	ppm	MF in SAX wrong. T-2 changed.
1809	Methyl 2-pyrrolidinone, 1-; (n-Methylpyrrolidone)	872-50-4	10	10	25	25	ppm	WEEL-TWA added, toxicity data updated, T-1, T-2, T-3 changed. See LEL formatting note.

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

**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1810	Methyl acetate	79-20-9	200	250	500.0	<i>3100.0</i>	ppm	Added. See LEL formatting note.
1811	Methyl acetylene	74-99-7	1000	<i>1700</i>	<i>1700</i>	<i>1700</i>	ppm	See LEL formatting note.
1812	Methyl acetylene-propadiene mixture; (MAPP)	59355-75-8	1000	1250	1250	<i>3400</i>	ppm	T-2 changed. See LEL formatting note.
1813	Methyl acrylate	96-33-3	2	2	7.5	150	ppm	See LEL formatting note.
1814	Methyl alcohol d	1455-13-6	200	250	1000	<i>6000</i>	ppm	Added. No toxicity data found. Methanol ERPGs not used. See LEL formatting note.
1815	<b>Methyl alcohol; (Methanol)</b>	<b>67-56-1</b>	200	530	2100	<i>7200</i>	ppm	<b>Interim AEGL-1, -2, -3. See LEL formatting note.</b>
1816	Methyl alcohol-d4	811-98-3	200	250	500	500	mg/m <sup>3</sup>	Added. TSCA listed, no toxicity data found. Methanol ERPGs not used. See LEL formatting note.
1817	Methyl benzoate; (Benzoic acid methyl ester)	93-58-3	2	6	40	75	ppm	Added.
1818	<b>Methyl bromide; (Bromomethane)</b>	<b>74-83-9</b>	1	20	210	740	ppm	<b>Interim AEGL-2, -3. See LEL formatting note.</b>
1819	Methyl butylacrylate, 2-; (Butyl methacrylate)	97-88-1	2.5	7.5	50	500	mg/m <sup>3</sup>	See LEL formatting note.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1820	<b>Methyl chloride</b>	<b>74-87-3</b>	100	100	910	3000	ppm	<b>Interim AEGL-2, -3. See LEL formatting note.</b>
1821	<b>Methyl chloroformate; (Methyl chlorocarbonate)</b>	<b>79-22-1</b>	0.2	0.3	2.2	6.7	ppm	<b>AEGL-2, -3.</b>
1822	Methyl chlorosilane; (Chloromethylsilane)	993-00-0	0.2	0.6	4	20	ppm	Toxicity assumed from other silanes
1823	<b>Methyl cyclohexylfluorophosphonate; (GF)</b>	<b>329-99-7</b>	6E-05	0.0002	0.0024	0.02	ppm	<b>Final AEGL-1, -2, -3.</b>
1824	Methyl demeton methyl; (Phosphorothioic acid, O,O-dimethyl-S-(2-methylthio)ethyl ester)	2587-90-8	4	12.5	20	20	mg/m <sup>3</sup>	
1825	Methyl difluorophosphite; (Methylphosphonic difluoride)	676-99-3	0.75	2.5	20	100	mg/m <sup>3</sup>	
1826	Methyl ether; (Dimethyl ether)	115-10-6	1000	<b><i>3000</i></b>	<b><i>10000</i></b>	<b><i>60000</i></b>	ppm	Human data added. T-2 changed. See LEL formatting note.
1827	Methyl ethyl ketone peroxide	1338-23-4	0.2	0.2	20	20	ppm	
1828	Methyl fluoride; (Fluoromethane)	593-53-3	4.48	13.4	22.4	448	mg/m <sup>3</sup>	All Ts changed. See LEL formatting note.
1829	Methyl fluoroacetate	453-18-9	0.015	0.05	0.35	5	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1830	Methyl fluorosulfate	421-20-5	0.0025	0.0075	0.05	0.25	ppm	
1831	Methyl formate; (Formic acid, methyl ester)	107-31-3	100	150	750	<i>4500</i>	ppm	T-2 changed. See LEL formatting note.
1832	<b>Methyl iodide</b>	<b>74-88-4</b>	5	25	50	125	ppm	<b>ERPG-1, -2, -3 See LEL formatting note.</b>
1833	Methyl isobutyl ketone; (Hexone)	108-10-1	75	75	500	500	ppm	T-2 changed. See LEL formatting note.
1834	<b>Methyl isocyanate</b>	<b>624-83-9</b>	0.02	0.025	0.067	0.2	ppm	<b>Final AEGL -2, -3. ERPG-1, -2, -3. See LEL formatting note.</b>
1835	Methyl isopropyl ketone; (3-Methyl-2-butanone)	563-80-4	200	200	200	600	ppm	See LEL formatting note.
1836	Methyl isothiocyanate; (Isothiocyanatomethane)	556-61-6	1.5	4	33	500	mg/m <sup>3</sup>	
1837	Methyl lithium	917-54-4	1	3	20	100	mg/m <sup>3</sup>	No toxicity data found. Spontaneous ignition in air: estimated from LiO and LiOH toxicity
1838	<b>Methyl mercaptan</b>	<b>74-93-1</b>	0.5	10	47	68	ppm	<b>Interim AEGL -2, -3. ERPG-1, -2, -3; ignored ERPG-1. See LEL formatting note.</b>
1839	Methyl mercury	22967-92-6	0.0107	0.0322	0.043	0.2	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1840	<b>Methyl methacrylate</b>	<b>80-62-6</b>	17	17	120	570	ppm	<b>AEGL-1, -2, -3. See LEL formatting note.</b>
1841	Methyl n-amyl ketone	110-43-0	100	100	125	800	ppm	See LEL formatting note.
1842	Methyl nitrate; (Nitric acid methyl ester)	598-58-3	5	15	100	500	ppm	
1843	<b>Methyl nonafluorobutyl ether (40%) and Methyl nonafluoroisobutyl ether (60%) (ppm) (HFE-7100)</b>	<b>163702-07-6 163702-08-7</b>	750	2500	8200	15000	ppm	<b>Final AEGL-1, -2, -3. TSCA-listed, mixture has WEEL-TWA</b>
1844	Methyl parathion	298-00-0	0.2	0.34	0.34	15	mg/m <sup>3</sup>	T-2 changed.
1845	Methyl phencapton	3735-23-7	2	6	11	100	mg/m <sup>3</sup>	
1846	Methyl phosphonic dichloride	676-97-1	0.06	0.2	1.4	15	mg/m <sup>3</sup>	
1847	Methyl phosphonothioic dichloride	676-98-2	1.5	4	30	150	mg/m <sup>3</sup>	LC50 estimated from similar compounds
1848	Methyl pyridine, 3-: (3-Picoline)	108-99-6	2	5	125	600	ppm	T-2, T-3 changed. See LEL formatting note.
1849	Methyl salicylate	119-36-8	0.125	0.4	2.5	12.5	ppm	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1850	Methyl sulfoxide-D6; (Dimethyl-D6-sulfoxide)	2206-27-1	35	100	500	500	mg/m <sup>3</sup>	H&N listed, no toxicity data, but use DUD800, CAS RN=67-68-5
1851	Methyl tert-butyl ether	1634-04-4	50	150	250	<i>10000</i>	ppm	See LEL formatting note.
1852	Methyl thiocyanate	556-64-9	5	15	28.4	28.4	ppm	
1853	Methyl vinyl carbinol; (3-Buten-2-ol)	598-32-3	0.25	0.75	5	25	ppm	
1854	Methyl vinyl ketone; (3-Buten-2-one)	78-94-4	0.2	0.2	0.2	0.25	ppm	See LEL formatting note.
1855	Methyl-1-butene, 2-	563-46-2	<u><i>65000</i></u>	<u><i>65000</i></u>	<u><i>230000</i></u>	<u><i>400000</i></u>	ppm	Simple asphyxiant, all Ts changed. See LEL formatting note.
1856	Methyl-1H-benzotriazole	29385-43-1	10	30	50	300	mg/m <sup>3</sup>	
1857	Methyl-1-phenyl-2-pyrazolin-5-one, 3-	89-25-8	15	40	300	500	mg/m <sup>3</sup>	
1858	Methyl-1-propanethiol, 1-; (sec-Butyl mercaptan; 2-Butanethiol)	513-53-1	2	6	40	200	ppm	Added, NFPA HHR = 2
1859	Methyl-1-propen-1-one, 2-; (Dimethylketene)	598-26-5	0.03	0.1	0.6	3.5	ppm	Toxicity based on ketene, synonym changed.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1860	Methyl-2-(1-methylethyl)phenol, 5-; (Thymol)	89-83-8	0.075	0.25	1.5	400	mg/m <sup>3</sup>	
1861	Methyl-2-butene, 2-	513-35-9	2	6	40	200	ppm	Added. No toxicity data found, HHR = 2 in MSDS. See LEL formatting note.
1862	Methyl-2-chloroacrylate	80-63-7	0.05	0.15	1.01	7.5	ppm	
1863	Methyl-2-heptanone, 6-	928-68-7	1.91	5.73	10	50	ppm	TSCA, HC&P listed, no toxicity data.
1864	Methyl-2-hexanone, 5-: (Methyl isoamyl ketone)	110-12-3	100	150	<b><i>1500</i></b>	<b><i>1500</i></b>	ppm	See LEL formatting note.
1865	Methyl-3-penten-2-one, 4-; (Mesityl oxide)	141-79-7	25	25	25	<b><i>1400</i></b>	ppm	Synonym changed. See LEL formatting note.
1866	Methyl-4-penten-2-one, 4-	3744-02-3	25	25	25	<b><i>1400</i></b>	ppm	Based on mesityl oxide (CAS RN 141-79-7) See LEL formatting note.
1867	Methyl-5-nitroaniline, 2-; (5-Nitro-o-toluidine; Benzenamine, 2-methyl-5-nitro-)	99-55-8	7.5	20	150	250	mg/m <sup>3</sup>	
1868	Methyl-5-vinylpyridine, 2-	140-76-1	0.35	1	1.9	40	mg/m <sup>3</sup>	
1869	Methyl-8-quinolinol, 2-	826-81-3	10	30	50	250	mg/m <sup>3</sup>	No toxicity data found. MSDS data.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1870	Methylal; (Dimethoxymethane)	109-87-5	1000	<i>2200</i>	<i>2200</i>	<i>2200</i>	ppm	See LEL formatting note.
1871	Methylamine hydrochloride	593-51-1	3.5	10	60	500	mg/m <sup>3</sup>	
1872	Methylamino)ethanol, 2-(	109-83-1	3	10	60	350	ppm	
1873	Methylaniline, n-	100-61-8	2	2	2.5	100	ppm	T-0, T-1 changed.
1874	Methylaziridine, 1-	1072-44-2	2	2	2	100	ppm	LClo > 2000 mg/m <sup>3</sup> , SAR
1875	Methylbutanamide, 3-; (Isovaleramide)	541-46-8	6	20	125	500	mg/m <sup>3</sup>	
1876	Methylbutylamine, N-	110-68-9	2	6	40	200	ppm	Added.
1877	Methylcellulose	9004-67-5	10	30	50	500	mg/m <sup>3</sup>	
1878	Methylchlorodisilane; (Chloromethyldisilane)	68937-17-7	0.1	0.3	2	10	ppm	
1879	Methylcholanthrene 3-	56-49-5	0.2	0.6	4	75	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1880	Methylcyclohexane	108-87-2	500	<i>1200</i>	<i>1200</i>	<i>1200</i>	ppm	See LEL formatting note.
1881	Methylcyclohexanone	1331-22-2	1.5	5	40	200	ppm	
1882	Methylcyclohexanone, 2-; (o-Methylcyclohexanone)	583-60-8	75	75	125	600	ppm	See LEL formatting note.
1883	Methylcyclopentane	96-37-7	4	12.5	75	<i>4000</i>	ppm	See LEL formatting note.
1884	Methyldecane, 4-	2847-72-5	1.57	4.7	7.83	40	ppm	HC&P listed, no toxicity data found.
1885	Methylene bis(2-chloroaniline), 4,4'-; (MBOCA)	101-14-4	0.01	0.03	0.6	40	ppm	T-2 changed.
1886	Methylene bis(4-isocyanatocyclohexane), 1,1'	5124-30-1	0.005	0.005	0.01	0.15	ppm	
1887	<b>Methylene chloride</b>	<b>75-09-2</b>	25	200	560	6900	ppm	<b>Interim AEGL-1, -2, -3. See LEL formatting note.</b>
1888	<b>Methylene diphenyl diisocyanate; (Diphenylmethane diisocyanate; MDI)</b>	<b>101-68-8</b>	0.05	0.2	2	25	mg/m <sup>3</sup>	<b>ERPG-1, -2, -3</b>
1889	Methylene fluoride; (1,2,-Difluoromethane; HFC-32)	75-10-5	1000	3000	200000	350000	ppm	Duplicate deleted.

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1890	Methylenebis(isocyanato-benzene), 1,1'-; (Diphenyl methane diisocyanate)	26447-40-5	5	15	25	125	mg/m <sup>3</sup>	Added. TSCA listed. Used Cyanides PEL-TWA.
1891	Methylenebisacrylamide copolymer, n,n-	25034-58-6	10	30	50	250	mg/m <sup>3</sup>	No toxicity data found, PNOS default used
1892	Methylenebisacrylamide, n,n'-	110-26-9	1.5	5	35	150	mg/m <sup>3</sup>	
1893	Methylenedianiline, 4,4'-	101-77-9	0.01	0.1	0.6	15	ppm	T-2 changed.
1894	Methylethyl hydroperoxide, 1-; (Isopropyl hydroperoxide)	3031-75-2	0.6	1.5	12.5	60	mg/m <sup>3</sup>	Based on Isopropylbenzenehydroperoxide
1895	Methylformamide, N-	123-39-7	15	50	350	500	ppm	Added. See LEL formatting note.
1896	Methylfuran, 2-	534-22-5	6	20	50	50	ppm	
1897	Methylheptane, 2-	592-27-8	2	6	40	200	ppm	HC&P listed, no toxicity data, pchem data ex ChemFinder. Duplicate entry deleted. See LEL formatting note.
1898	Methylheptane, 4-	589-53-7	10	30	50	250	ppm	No toxicity data. See LEL formatting note.
1899	Methylhydrosiloxane (3-4%) + dimethylsiloxane (96-97%) copolymer	68037-59-2	10	30	50	250	mg/m <sup>3</sup>	Added. TSCA and ChemFinder listed, no pchem or toxicity data found.

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1900	Methylimidazole	822-36-6	20	60	300	300	mg/m <sup>3</sup>	Added.
1901	Methylimidazole, 1-	616-47-7	6	15	125	500	mg/m <sup>3</sup>	
1902	Methylactic acid ethyl ester, 2-; (Ethyl 2-hydroxyisobutyrate)	80-55-7	15	50	400	500	mg/m <sup>3</sup>	
1903	<b>Methylactonitrile 2-; (Acetone cyanohydrin)</b>	<b>75-86-5</b>	1.44	2	7.1	15	ppm	<b>Interim AEGL-1, -2, -3. Units changed. See LEL formatting note.</b>
1904	Methylmagnesium bromide, 3.0 m in diethyl ether	75-16-1	0.4	1.25	7.5	40	ppm	Added. No toxicity data found.
1905	Methylmagnesium chloridie	676-58-4	1.5	5	35	150	mg/m <sup>3</sup>	Added. No toxicity data found, HHR = 3. See LEL formatting note.
1906	Methylmercuric dicyanamide	502-39-6	0.0149	0.0447	2.98	2.98	mg/m <sup>3</sup>	T-1 changed.
1907	Methylmorpholine, 4-	109-02-4	2	6	40	200	ppm	See LEL formatting note.
1908	Methylnaphthalene, 1-	90-12-0	6	20	500	500	mg/m <sup>3</sup>	
1909	Methylnaphthalene, 2-	91-57-6	6	20	125	500	mg/m <sup>3</sup>	See LEL formatting note.

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1910	Methylnitrosopiperidine, 3-; (Piperidine, 3-methyl-1-nitroso-)	13603-07-1	0.06	0.15	1.25	6	ppm	
1911	Methylnonane, 4-	17301-94-9	2	6	40	200	ppm	HC&P, no toxicity data, toxicity estimated.
1912	Methylpentane, 2-; (Isohexane)	107-83-5	500	510	510	<i>2500</i>	ppm	See LEL formatting note.
1913	Methylpentane, 3-	96-14-0	500	510	510	<i>2500</i>	ppm	Added. See LEL formatting note.
1914	Methylpentanol-1, 2-; (Amyl methyl alcohol)	105-30-6	0.25	0.75	5	150	ppm	Added.
1915	Methylphenol, 2-; (o-Cresol)	95-48-7	5	5	24.9	250	ppm	See LEL formatting note.
1916	Methylphenol, 3-; (m-Cresol)	108-39-4	5	5	24.9	250	ppm	See LEL formatting note.
1917	Methylphenol, 4-; (p-Cresol)	106-44-5	5	5	24.9	250	ppm	See LEL formatting note.
1918	Methylphenylthiourea, 2-; (o-Tolyl thiourea)	614-78-8	10	30	50	50	mg/m <sup>3</sup>	
1919	Methylphosphonate	993-13-5	10	10	10	10	mg/m <sup>3</sup>	HSDB, HC&P listed, no toxicity data found.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1920	Methylphosphonothioic acid-O-(4-nitrophenyl) O-phenyl ester	2665-30-7	1.5	5	8	8	mg/m <sup>3</sup>	
1921	Methylphosphonothioic acid-O-ethyl O-(4-(methylthio)phenyl) ester	2703-13-1	2	6	10	10	mg/m <sup>3</sup>	Punctuation corrected.
1922	Methylpropane, 2-; (Isobutane)	75-28-5	800	<i>2400</i>	<i>4000</i>	<i>15000</i>	ppm	See LEL formatting note.
1923	Methylpropene, 2- (Isobutene)	115-11-7	1000	<i>3000</i>	<i><u>20000</u></i>	<i><u>100000</u></i>	ppm	See LEL formatting note.
1924	Methylpropyl nitrosoamine; (N-Methyl-N-nitroso-1-propanamine)	924-46-9	0.01	0.03	0.2	4	ppm	
1925	Methylpyridine, 2-; (2-Picoline)	109-06-8	2	5	5	300	ppm	WEEL-STEL added, T-1 changed. See LEL formatting note.
1926	Methylpyrrole, N-	96-54-8	75	250	500	500	mg/m <sup>3</sup>	Added. No toxicity data found. MSDS NFPA HHR = 0
1927	Methylpyrrolidine; (Methylpyrrolidine, 1-)	120-94-5	0.75	2	15	75	mg/m <sup>3</sup>	Duplicate deleted.
1928	Methylstyrene, Alpha-	98-83-9	50	100	100	700	ppm	See LEL formatting note.
1929	Methyltetrahydrofuran, 2-	96-47-9	6	15	125	600	ppm	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1930	Methyltriacetoxysilane	4253-34-3	7.5	25	150	500	mg/m <sup>3</sup>	
1931	<b>Methyltrichlorosilane; (Trichloromethyl silane)</b>	<b>75-79-6</b>	0.2	0.6	6.2	28	ppm	<b>Interim AEGL-1, -2, -3. See LEL formatting note.</b>
1932	Methyltriethoxysilane	2031-67-6	6	15	125	600	ppm	
1933	Methyl-trifluoromethanesulfonate	333-27-7	7.2	21.6	36	500	mg/m <sup>3</sup>	No toxicity data found. T-0, T-1, T-2 changed.
1934	Methyltrimethoxysilane	1185-55-3	50	150	500	500	mg/m <sup>3</sup>	
1935	Methyltrioctylammonium chloride	5137-55-3	0.75	2.5	20	100	mg/m <sup>3</sup>	
1936	Methylvinyl,dimethylsiloxane copolymer,vinyl terminated	68083-18-1	10	30	50	250	mg/m <sup>3</sup>	Added. TSCA listed, no toxicity or pchem data found
1937	Metolcarb; (Methylcarbamic acid m-tolyl ester)	1129-41-5	1	3	4.8	200	mg/m <sup>3</sup>	T-2 changed.
1938	Mevinphos; (Phosdrin)	7786-34-7	0.1	0.27	4	4	mg/m <sup>3</sup>	
1939	Mexacarbate; (4-(Dimethylamine)-3,5-xylyl N-methylcarbamate)	315-18-4	2.5	7.5	14	14	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1940	Mica; (mica silicates)	12001-26-2	3	9	15	75	mg/m <sup>3</sup>	IDLH not used
1941	Michler's ketone; (4,4'-bis(dimethylamino)benzophenone)	90-94-8	1	3.5	25	40	mg/m <sup>3</sup>	
1942	Mineral fibers, fine	z-0032	10	30	50	50	mg/m <sup>3</sup>	T-3 changed.
1943	Mineral oil, heavy or light; (Paraffin oil; Deobase, deodorized)	8020-83-5	0.2	0.6	500	500	mg/m <sup>3</sup>	T-2 changed.
1944	Mineral oil, petroleum distillates, heavy naphthenic	64741-53-3	0.2	0.6	100	500	mg/m <sup>3</sup>	T-2, T-3 changed.
1945	Mineral oil, petroleum distillates, solvent-refined (mild) heavy paraffinic	64741-88-4	0.2	0.6	1	500	mg/m <sup>3</sup>	No toxicity data. Rat oral LD50 for similar compounds > 5 g/kg.
1946	Mineral oil, petroleum distillates, solvent refined light naphthenic	64741-97-5	40	125	500	500	mg/m <sup>3</sup>	Rat LD > 5 g/kg. No pchem data found.
1947	Mineral oil, white	8042-47-5	0.2	0.6	500	500	mg/m <sup>3</sup>	T-2 changed.
1948	Mineral oil; (Oil mist, mineral)	8012-95-1	5	10	10	500	mg/m <sup>3</sup>	
1949	Mirex; (Perchloropentacyclodecane)	2385-85-5	0.03	0.075	0.6	100	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1950	Mitomycin C	50-07-7	4	12.5	23	23	mg/m <sup>3</sup>	
1951	Molecular sieve 13X	63231-69-6	7.5	25	150	500	mg/m <sup>3</sup>	MSDS HHR = 2. All Ts changed.
1952	Molybdate orange	12656-85-8	5	15	75	500	mg/m <sup>3</sup>	T-2 changed.
1953	Molybdenum	764-70-1	10	30	50	500	mg/m <sup>3</sup>	Added. Pchem data varies between sources.
1954	Molybdenum	7439-98-7	10	30	50	500	mg/m <sup>3</sup>	
1955	Molybdenum carbide	12011-97-1	11.3	33.8	56.3	500	mg/m <sup>3</sup>	LD > 250 mg/kg. T-0, T-1, T-2 changed.
1956	Molybdenum dioxide	18868-43-4	6.67	6.67	6.67	500	mg/m <sup>3</sup>	All Ts changed.
1957	Molybdenum disilicide	12136-78-6	15.9	47.6	79.3	500	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
1958	Molybdenum hexacarbonyl	13939-06-5	27.5	82.6	138	500	mg/m <sup>3</sup>	Insoluble Mo compound. T-0, T-1, T-2 changed.
1959	Molybdenum pentachloride	10241-05-1	14.2	14.2	500	500	mg/m <sup>3</sup>	T-0, T-1 changed.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1960	Molybdenum trioxide	1313-27-5	7.5	7.5	7.5	500	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
1961	Molybdenum(IV) sulfide	1317-33-5	16.7	50.1	83.4	500	mg/m <sup>3</sup>	Rat oral LD50 > 2 g/kg. T-0, T-2 changed.
1962	Molybdic acid	7782-91-4	8.44	8.44	8.44	500	mg/m <sup>3</sup>	Mo compounds, treated as soluble. T-0, T-1, T-2 changed.
1963	Molybdic acid, ammonium salt; (Ammonium molybdate)	11098-84-3	11.7	11.7	500	500	mg/m <sup>3</sup>	Could not confirm MF, MW. RTECS toxicity data.
1964	Molybdic acid, diammonium salt; (Ammonium molybdate)	13106-76-8	10.2	30.7	51.1	500	mg/m <sup>3</sup>	SAX rat LD50, RTECS LDlo and TD lo.
1965	Molybdic acid, disodium salt; (Disodium molybdate)	7631-95-0	10.7	10.7	10.7	500	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
1966	Molybdic acid, hexaammonium salt; (Ammonium heptamolybdate)	12027-67-7	8.67	8.67	8.67	500	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
1967	Molybdophosphoric acid, X-hydrate	12026-57-2	7.93	7.93	7.93	500	mg/m <sup>3</sup>	TSCA listed, no toxicity data. Assumed soluble compound. T-0, T-1, T-2 changed.
1968	Molybdophosphoric acid; (Phosphomolybdic acid hydrate)	51429-74-4	8.07	8.07	8.07	500	mg/m <sup>3</sup>	No toxicity data found. TSCA CAS RN = 12207-90-8 for molybdophosphoric acid. MF, MW ex TSCA, MSDS MW = 1825.25 for anhydrous base, MF differs. M T-0, T-1, T-2 changed.
1969	Monobutyl phosphite	16456-56-7	6	20	150	500	mg/m <sup>3</sup>	

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1970	Monochloroamine; (Chloramide)	10599-90-3	0.2	0.6	4	20	ppm	
1971	Monochloropentafluoroethane; (CFC-115)	76-15-3	1000	3000	5000	300000	ppm	
1972	Monocrotophos	6923-22-4	0.05	0.15	0.63	25	mg/m <sup>3</sup>	
1973	<b>Monomethylamine; (Methylamine)</b>	<b>74-89-5</b>	10	15	64	350	ppm	<b>AEGL-1, -2, -3. See LEL formatting note.</b>
1974	<b>Monomethylhydrazine; (Methylhydrazine)</b>	<b>60-34-4</b>	0.01	0.2	0.9	2.7	ppm	<b>Final AEGL-2, -3. See LEL formatting note.</b>
1975	Monosodium titanate	60704-88-3	10	30	50	250	mg/m <sup>3</sup>	MSDS #18858-00 CAS RN 12034-36-5 TSCA has MF = Na.H-O5-Ti2
1976	Montmorillonite	1318-93-0	30	30	30	30	mg/m <sup>3</sup>	Used Bentonite, 1302-78-9
1977	Morpholine	110-91-8	20	30	30	<b>1400</b>	ppm	See LEL formatting note.
1978	Morpholinepropanesulfonic acid, 4-	1132-61-2	1.25	4	25	125	mg/m <sup>3</sup>	Quail LD50 > 316 mg/m <sup>3</sup>
1979	Morpholino)ethanesulfonic acid monohydrate, 2-(N-	4432-31-9	1.25	4	25	125	mg/m <sup>3</sup>	Quail LD50 > 316 mg/kg

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1980	Muscimol; (5-Aminomethyl-3-isoxazole)	2763-96-4	3.5	10	17	20	mg/m <sup>3</sup>	
1981	Mustard gas sulfoxide; (bis(2-chloroethyl)-sulfoxide)	5819-08-9	0.4	1.25	7.5	40	mg/m <sup>3</sup>	Added. No pchem data found.
1982	Myoglobins	9008-45-1	10	30	50	250	mg/m <sup>3</sup>	Not found in databases. MSDS states Solid.
1983	Myristic acid, butyl ester; (Tetradecanoic acid, butyl ester)	110-36-1	3	7.5	60	300	ppm	Rat oral LD50 > 8 g/kg See LEL formatting note.
1984	Myristic acid, isopropyl ester; (Tetradecanoic acid, isopropyl; Isopropyl myristate)	110-27-0	200	500	500	500	mg/m <sup>3</sup>	
1985	Nabumetone; (Relafen; 4-(6-methoxy-2-naphthyl)-2-butanone)	42924-53-8	10	30	125	500	mg/m <sup>3</sup>	T-2 changed.
1986	Nadic methyl anhydride	25134-21-8	0.75	2	15	75	mg/m <sup>3</sup>	
1987	Naphtha (coal tar)	8030-30-6	100	100	500	<b><i>1000</i></b>	ppm	See LEL formatting note.
1988	Naphtha (petroleum), heavy catalytic cracked	64741-54-4	15	40	300	500	mg/m <sup>3</sup>	Rat 240 min LC > 5700 mg/m <sup>3</sup> , oral LD > 5000 mg/kg. T-0, T-1, T-2 changed.
1989	Naphtha (petroleum), light straight-run	64741-46-4	100	300	500	<b><i>1000</i></b>	ppm	Added. No toxicity data found. Used Naphtha (Coal tar) concentration limits. See LEL formatting note.

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
1990	Naphtha, heavy aliphatic solvent	64742-96-7	10	30	50	250	mg/m <sup>3</sup>	Added. TSCA listed, no toxicity data found.
1991	Naphtha, hydrotreated heavy; (Isopar L-rev 2)	64742-48-9	171	513	<b><i>855</i></b>	<b><i>1250</i></b>	ppm	OEL-TWA = 171 ppm (1200 mg/m <sup>3</sup> ) from Exxon MSDS. All Ts changed. See LEL formatting note.
1992	Naphthalenamine, 1-; (1-Naphthylamine)	134-32-7	0.6	1.5	12.5	350	mg/m <sup>3</sup>	
1993	Naphthalene	91-20-3	10	15	35	250	ppm	See LEL formatting note.
1994	Naphthaleneacetamide, 1-	86-86-2	6	20	150	500	mg/m <sup>3</sup>	
1995	Naphthalenetrisulfonic acid sodium salt, 1,3,6	19437-42-4	10	30	50	250	mg/m <sup>3</sup>	TSCA listed, no toxicity or pchem data found. MSDS Solid.
1996	Naphthenic acid, lead salt	61790-14-5	0.0544	0.163	30	109	mg/m <sup>3</sup>	For stated MW, x = 7. All Ts changed.
1997	Naphthol, 1-	90-15-3	25	75	500	500	mg/m <sup>3</sup>	
1998	Naphthol, 2-	135-19-3	0.0025	0.0075	0.05	500	mg/m <sup>3</sup>	
1999	Naphthol-8-sulfonic acid, sodium salt, 2-	832-85-9	2	6	40	200	mg/m <sup>3</sup>	Not found in databases. Used 2-Naphthol-6-sulfonic acid (93-01-6) toxicity data.

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2000	Naphthoquinone, 1,4-	130-15-4	0.075	0.25	1.5	75	mg/m <sup>3</sup>	
2001	Naphthylamine, beta-	91-59-8	1.5	5	35	300	mg/m <sup>3</sup>	
2002	Naphthylthiourea, alpha-; (ANTU)	86-88-4	0.3	0.9	10	100	mg/m <sup>3</sup>	
2003	Neatsfoot oil; (Fats and glyceridic oils)	8002-64-0	10	30	50	250	mg/m <sup>3</sup>	Added. TSCA listed, no toxicity or pchem data found, assumed non-volatile.
2004	Neodecanoic acid	26896-20-8	12.500	40.000	300.000	500	mg/m <sup>3</sup>	
2005	Neodymium	7440-00-8	0.0008	0.0025	0.02	0.1	mg/m <sup>3</sup>	Added.
2006	Neodymium bromide	13536-80-6	10	30	50	250	mg/m <sup>3</sup>	
2007	Neodymium fluoride	13709-42-7	8.83	26.5	44.1	250	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
2008	Neodymium hydroxide	16469-17-3	0.75	0.75	2	75	mg/m <sup>3</sup>	<b>SAR</b>
2009	Neodymium nitrate	10045-95-1	7.5	25	150	500	mg/m <sup>3</sup>	

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2010	Neodymium nitrate, pentahydrate	14517-29-4	10	30	50	250	mg/m <sup>3</sup>	HC&P listed, no toxicity data.
2011	Neodymium nitrite	z-0033	0.04	0.1	0.75	75	mg/m <sup>3</sup>	<b>SAR</b>
2012	Neodymium(III) chloride	10024-93-8	0.06	0.15	1.25	6	ppm	
2013	Neodymium(III) oxide	1313-97-9	10	30	50	500	mg/m <sup>3</sup>	Rat oral LD50 > 5 g/kg
2014	Neon	7440-01-9	65000	65000	230000	400000	ppm	Simple asphyxiant, all Ts changed.
2015	Nickel	7440-02-0	1	4.5	10	10	mg/m <sup>3</sup>	
2016	Nickel acetate tetrahydrate	6018-89-9	4.24	4.24	4.24	42.4	mg/m <sup>3</sup>	All Ts changed.
2017	Nickel aluminide	12003-78-0	1.36	1.36	1.36	13.6	mg/m <sup>3</sup>	TSCA listed, no toxicity data. All Ts changed.
2018	Nickel carbonate hydroxide; (Basic nickel carbonate tetrahydrate)	39430-27-8	2.14	2.14	4	21.4	mg/m <sup>3</sup>	See also SAX NCY600, 12607-70-4
2019	Nickel carbonate hydroxide; (Basic nickel(II) carbonate)	12607-70-4	1.73	1.73	1.73	17.3	mg/m <sup>3</sup>	All Ts changed.

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2020	<b>Nickel carbonyl</b>	<b>13463-39-3</b>	0.0029	0.036	0.036	0.16	ppm	<b>Interim AEGL-2, -3. See LEL formatting note.</b>
2021	Nickel chloride; (Nickelous chloride)	7718-54-9	2.21	2.21	2.21	22.1	mg/m <sup>3</sup>	All Ts changed.
2022	Nickel cyanide	557-19-7	0.377	1.13	9.44	18.9	mg/m <sup>3</sup>	PEL-TWA ignored. All Ts changed.
2023	Nickel fluoride	13940-83-5	2.88	2.88	3	28.8	mg/m <sup>3</sup>	ChemFinder has Nickel(II) fluoride tetrahydrate. T-0, T-1, T-3 changed.
2024	Nickel formate	3349-06-2	3.15	3.15	6	31.5	mg/m <sup>3</sup>	All Ts changed.
2025	Nickel oxalate (liquids)	6018-94-6a	2.5	2.5	2.5	25	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
2026	Nickel oxalate (solids)	6018-94-6b	2.5	2.5	2.5	25	mg/m <sup>3</sup>	T-0, T-1 changed.
2027	Nickel oxide; (Nickel(II) oxide)	1313-99-1	1.27	1.27	12.7	12.7	mg/m <sup>3</sup>	T-0, T-1 changed.
2028	Nickel perchlorate	13637-71-3	6.23	6.23	6.23	62.3	mg/m <sup>3</sup>	HC&P listed, no toxicity data found. All Ts changed.
2029	Nickel sulfamate; (Nickel(II) sulfamate)	13770-89-3	4.27	4.27	4.27	200	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.

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			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2030	Nickel sulfate hexahydrate; (Nickel(II) sulfate hexahydrate)	10101-97-0	4.48	4.48	10	44.8	mg/m <sup>3</sup>	All Ts changed.
2031	Nickel sulfate; (Nickel(II) sulfate)	7786-81-4	2.64	2.64	2.64	26.4	mg/m <sup>3</sup>	All Ts changed.
2032	Nickel(2+) stearate	2223-95-2	10.7	32	53.3	107	mg/m <sup>3</sup>	TSCA listed, no toxicity data. All Ts changed.
2033	Nickel(II) bromide	13462-88-9	3.72	3.72	3.72	37.2	mg/m <sup>3</sup>	No toxicity data, soluble compound. All Ts changed.
2034	Nickel(II) carbonate (1:1)	3333-67-3	2.02	2.02	2.02	20.2	mg/m <sup>3</sup>	T-0, T-1 changed.
2035	Nickel(II) chloride hexahydrate	7791-20-0	4.05	4.05	40.5	40.5	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
2036	Nickel(II) hydroxide; (Nickelous hydroxide)	12054-48-7	1.58	1.58	1.58	15.8	mg/m <sup>3</sup>	SAX has CAS RNs of nickelous and nickelic reversed. All Ts changed.
2037	Nickel(II) nitrate hexahydrate	13478-00-7	4.96	4.96	49.6	49.6	mg/m <sup>3</sup>	T-0, T-1 changed.
2038	Nickel(II) nitrate; (Nickelous nitrate)	13138-45-9	3.11	3.11	12.5	31.1	mg/m <sup>3</sup>	All Ts changed.
2039	Nickel(II) nitrite	17861-62-0	1	1	1	10	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2040	Nickel(II) phosphate	10381-36-9	1	1	1	10	mg/m <sup>3</sup>	T-0, T-1 changed.
2041	Nickel(III) hydroxide; (Nickelic hydroxide)	12125-56-3	1.87	1.87	1.87	18.7	mg/m <sup>3</sup>	CAS RN = 12125-56-3 is Ni(OH) <sub>3</sub> ; 12054-48-7 is Ni(OH) <sub>2</sub> ; 11113-74-9 is Ni.OH, but databases differ. Ni.OOH (Ni oxy OH) not found
2042	Nicotinamide	98-92-0	6	20	150	500	mg/m <sup>3</sup>	
2043	Nicotine salts; (dl-beta-Nicotine; DL-Nicotine)	22083-74-5	1.29	3.5	3.5	75	mg/m <sup>3</sup>	T-0 changed.
2044	Nicotine Sulfate	65-30-5	4	9	9	9	mg/m <sup>3</sup>	
2045	Nicotine; (Pyridine, (S)-3-(1-methyl-2-pyrrolidinyl)-)	54-11-5	0.5	1.5	3.5	5	mg/m <sup>3</sup>	See LEL formatting note.
2046	Nicotinic acid; (Niacin)	59-67-6	0.75	2	15	500	mg/m <sup>3</sup>	
2047	Niobium	7440-03-1	40	125	500	500	mg/m <sup>3</sup>	Rat LD50 > 10 g/kg
2048	Niobium chloride	10026-12-7	6	15	125	500	mg/m <sup>3</sup>	
2049	Niobium pentoxide; (Niobium(V) oxide)	1313-96-8	10	30	200	500	mg/m <sup>3</sup>	Rat oral LD50 > 10 g/kg. T-0, T-1, T-2 changed.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2050	Niobium(IV) carbide	12069-94-2	11.3	33.9	56.5	250	mg/m <sup>3</sup>	TSCA listed, no toxicity data found. T-0, T-1, T-2 changed.
2051	Nitrapyrin; (2-Chloro-6-(trichloromethyl)pyridine)	1929-82-4	15	20	50	400	mg/m <sup>3</sup>	
2052	Nitrate(s)	14797-55-8	10	30	50	250	mg/m <sup>3</sup>	
2053	<b>Nitric acid WFNA; (ERPGs for "white fuming")</b>	<b>7697-37-2</b>	0.53	0.53	24	92	ppm	<b>Interim AEGL-1, -2, -3.</b>
2054	Nitric acid, butyl ester; (Butyl nitrate)	928-45-0	2.05	6.16	10.3	50	ppm	No toxicity data found.
2055	Nitric acid, ethyl ester; (Ethyl nitrate)	625-58-1	0.35	1	6	35	ppm	HSDB MP = -94.6, BP = 87.2. See LEL formatting note.
2056	Nitric acid, pentyl ester; (Amyl nitrate)	1002-16-0	25	75	500	2500	ppm	CAS RN corrected, 10023-16-0 fails checksum..
2057	<b>Nitric oxide</b>	<b>10102-43-9</b>	24.5	24.5	24.5	100	ppm	On AEGL list, but no values recommended. All Ts changed.
2058	Nitilotriacetic acid, disodium salt; (Disodium nitilotriacetate)	15467-20-6	6	15	125	500	mg/m <sup>3</sup>	
2059	Nitilotriacetic acid, trisodium salt, monohydrate	18662-53-8	0.06	0.2	1.25	<b>500</b>	mg/m <sup>3</sup>	Added. Some toxicity data ex HSDB. See LEL formatting note.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2060	Nitilotriacetic acid; (Aminotriacetic acid)	139-13-9	35	100	500	500	mg/m <sup>3</sup>	
2061	Nitroaniline, 2-; (o-Nitroaniline)	88-74-4	6	20	125	500	mg/m <sup>3</sup>	Rat 4 hr LC50 > 2529 mg/m <sup>3</sup> See LEL formatting note.
2062	Nitroaniline, 3-; (m-Nitroaniline)	99-09-2	0.6	1.5	12.5	200	mg/m <sup>3</sup>	
2063	Nitroaniline, p-	100-01-6	6	9	300	300	mg/m <sup>3</sup>	T-2 changed.
2064	Nitrobenzene	98-95-3	1	3	19.9	200	ppm	See LEL formatting note.
2065	Nitrobenzenesulfonic acid, sodium salt, 3-	127-68-4	40	125	500	500	mg/m <sup>3</sup>	Added.
2066	Nitrobiphenyl, 4- ; (p-Nitrobiphenyl)	92-93-3	0.25	0.75	5	500	mg/m <sup>3</sup>	
2067	Nitrochlorobenzene, m-; (1-Chloro-3-nitrobenzene; m-chloronitrobenzene)	121-73-3	0.06	0.2	1.25	150	mg/m <sup>3</sup>	Synonym corrected.
2068	Nitrocyclohexane	1122-60-7	0.3	0.75	1.5	60	mg/m <sup>3</sup>	
2069	Nitrocyclohexene, 1-; (1-Nitrocyclohex-1-ene)	2562-37-0	0.35	1	7.5	40	ppm	<b>SAR</b>

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2070	Nitrodiphenylamine, 2-	119-75-5	30	100	500	500	mg/m <sup>3</sup>	Used p-nitrodiphenylamine (CAS RN = 83630-6)
2071	Nitroethane	79-24-3	100	100	200	1000	ppm	See LEL formatting note.
2072	Nitrogen	7727-37-9	65000	65000	230000	400000	ppm	Simple asphyxiant, all Ts changed. TEELs represent added nitrogen. All Ts changed.
2073	<b>Nitrogen dioxide</b>	<b>10102-44-0</b>	0.5	0.5	12	20	ppm	<b>Interim AEGL-1, -2, -3.</b>
2074	Nitrogen mustard hydrochloride	55-86-7	0.75	2.5	4	4	mg/m <sup>3</sup>	
2075	Nitrogen mustard; (Bis(b-chloroethyl)methylamine)	51-75-2	1.25	4	29	29	mg/m <sup>3</sup>	
2076	Nitrogen tetroxide	10544-72-6	3	5	5	20	ppm	
2077	<b>Nitrogen trifluoride</b>	<b>7783-54-2</b>	10	60	400	800	ppm	<b>ERPG-2, -3.</b>
2078	Nitrogen trioxide; (Dinitrogen trioxide)	10544-73-7	25	50	100	500	ppm	TSCA, HC&P listed, CAS RN 12033-49-7 not found, data source uncertain
2079	Nitroglycerin	55-63-0	0.1	0.1	2	75	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2080	Nitromethane	75-52-5	20	60	750	750	ppm	PEL-TWA ignored. T-0, T-2 changed. See LEL formatting note.
2081	Nitromethane d3; (Trideuteronitromethane)	13031-32-8	20	60	100	750	ppm	Added. Used nitromethane, 72-52-5.
2082	Nitro-m-xylene, 2-; (1,3-Dimethyl-2-nitrobenzene)	81-20-9	10	30	200	500	mg/m <sup>3</sup>	Added. SAX MF and MW incorrect. Rat oral LD50 from MSDS.
2083	Nitronium Tetrafluoroborate	13826-86-3	4.37	13.1	21.8	150	mg/m <sup>3</sup>	Added. No pchem data found, HHR = 3 from MSDS.
2084	Nitrophenol (mixed isomers)	25154-55-6	0.75	2.5	15	75	mg/m <sup>3</sup>	Used most toxic isomer Ts (4-Nitrophenol, 100-02-7).
2085	Nitrophenol, 2-; (o-Nitrophenol)	88-75-5	1.25	4	30	150	mg/m <sup>3</sup>	
2086	Nitrophenol, 3-; (m-Nitrophenol)	554-84-7	1.25	4	30	150	mg/m <sup>3</sup>	
2087	Nitrophenol, 4-; (p-Nitrophenol)	100-02-7	0.75	2.5	15	75	mg/m <sup>3</sup>	
2088	Nitropropane, 1-	108-03-2	25	25	25	1000	ppm	See LEL formatting note.
2089	Nitropropane, 2-	79-46-9	25	30	50	100	ppm	See LEL formatting note.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2090	Nitropyrene, 1-	5522-43-0	0.1	0.3	2	10	mg/m <sup>3</sup>	
2091	Nitropyridine-n-oxide, 4-; (Pyridine, 4-nitro-1-oxide)	1124-33-0	15	50	80	80	mg/m <sup>3</sup>	
2092	Nitrosodimethylamine	62-75-9	3.5	10	19	19	mg/m <sup>3</sup>	
2093	Nitrosodiphenylamine, p-	156-10-5	0.1	0.3	2	150	mg/m <sup>3</sup>	
2094	Nitrosodipropylamine; (DPNA)	621-64-7	0.06	0.2	1.25	200	mg/m <sup>3</sup>	
2095	Nitrosomorpholine	59-89-2	12.5	30	30	30	mg/m <sup>3</sup>	
2096	Nitroso-n-methylurea, n-	684-93-5	0.015	0.05	0.35	50	mg/m <sup>3</sup>	
2097	Nitrosophenol, p-	104-91-6	2	6	40	200	mg/m <sup>3</sup>	
2098	Nitrosotoluene, 2-: (o-Nitrosotoluene)	611-23-4	7.5	25	150	500	mg/m <sup>3</sup>	
2099	Nitrosyl chloride	2696-92-6	0.025	0.075	0.5	2.5	ppm	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2100	Nitrosylsulfuric acid	7782-78-7	1.5	5	35	150	mg/m <sup>3</sup>	Added. No toxicity data found.
2101	Nitrotoluene, m-	99-08-1	5	6	50	200	ppm	T-2 changed. See LEL formatting note.
2102	Nitrotoluene, o-	88-72-2	5	6	50	60	ppm	T-2 changed. See LEL formatting note.
2103	Nitrotoluene, p-	99-99-0	5	6	10	200	ppm	See LEL formatting note.
2104	Nitrous acid	7782-77-6	1	3	15	200	mg/m <sup>3</sup>	Used HNO <sub>3</sub> limits
2105	Nitrous oxide	10024-97-2	50	150	10000	20000	ppm	
2106	Nonacosane	630-03-5	10	30	50	250	mg/m <sup>3</sup>	
2107	Nonanal	124-19-6	2	6	40	500	mg/m <sup>3</sup>	
2108	Nonane (Shellsol 140)	111-84-2	200	600	<b><i>1000</i></b>	<b><i>1250</i></b>	ppm	See LEL formatting note.
2109	Nonanenitrile; (1-Octyl cyanide)	2243-27-8	26.8	26.8	30	150	ppm	T-0, T-1 changed.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2110	Nonanoic acid	112-05-0	25	75	500	500	mg/m <sup>3</sup>	
2111	Nonanone, 2-	821-55-6	1	3	20	75	ppm	
2112	Nonene, 1-	124-11-8	0.5	1.5	10	50	ppm	HSDB, OHMTADS, TSCA, no toxicity data, estimated. See LEL formatting note.
2113	Nonoxynol-4	7311-27-5	10	30	50	250	mg/m <sup>3</sup>	
2114	Nonyl alcohol	143-08-8	25	75	500	500	mg/m <sup>3</sup>	See LEL formatting note.
2115	Nonyl phenol (mixed isomers)	25154-52-3	6	20	125	500	mg/m <sup>3</sup>	
2116	Nonyl phenol, 4- (branched)	84852-15-3	5	15	100	500	mg/m <sup>3</sup>	
2117	Nonyl phenol, p-	104-40-5	6	20	125	500	mg/m <sup>3</sup>	
2118	Nonylphenol ethoxylate	127087-87-0	10	30	200	500	mg/m <sup>3</sup>	
2119	Nonylphenoxypolyethoxyethanol	68412-54-4	10	30	50	250	mg/m <sup>3</sup>	

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2120	Norbormide	991-42-4	0.75	2	3.8	3.8	mg/m <sup>3</sup>	
2121	Norchlorofluoroepibatidine	z-0034	4E-05	0.0001	0.00075	0.00125	mg/m <sup>3</sup>	
2122	Octachlorodibenzodioxin, 1,2,3,4,6,7,8,9-; (OCDD, Octachlorodibenzo-p-dioxin)	3268-87-9	0.004	0.01	0.075	0.4	mg/m <sup>3</sup>	
2123	Octachlorodibenzofuran, 1,2,3,4,6,7,8,9-	39001-02-0	0.003	0.0075	0.06	10	mg/m <sup>3</sup>	LC50 based on other CDFs
2124	Octachloronaphthalene	2234-13-1	0.1	0.3	0.5	1	mg/m <sup>3</sup>	IDLH addad. T-3 changed.
2125	Octacosane	630-02-4	21.7	21.7	112	500	ppm	TSCA listed, no toxicity data found. All Ts and units changed.
2126	Octadecane, N-	593-45-3	33.7	33.7	173	750	ppm	TSCA, HC&P listed.
2127	Octadecanoic acid, n-; (Stearic acid)	57-11-4	60	150	500	500	mg/m <sup>3</sup>	RTECS toxicity data used. All Ts changed.
2128	Octadecanol, 1-	112-92-5	2.5	7.5	50	<b>750</b>	ppm	See LEL formatting note.
2129	Octadecenoic acid, 9-; (Oleic acid)	112-80-1	0.015	0.05	0.4	500	mg/m <sup>3</sup>	

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2130	Octadecyl methacrylate	32360-05-7	10	30	50	250	mg/m <sup>3</sup>	TSCA, HC&P listed, no toxicity data. MSDS MP, SG data. Assumed nonvolatile.
2131	Octadecyltrichlorosilane	112-04-9	7.5	25	150	500	mg/m <sup>3</sup>	Added. No toxicity data found.
2132	Octafluorocyclobutane; (Cyclooctafluorobutane; Freon C-318)	115-25-3	25000	65000	230000	300000	ppm	T-1, T-2 changed.
2133	Octamethylcyclotetrasiloxane	556-67-2	12.5	35	250	300	ppm	SAR Ts = 10, 30, 50, 500 mg/m <sup>3</sup> not used. See LEL formatting note.
2134	Octamethyldiphosphoramidate; (Octamethylpyrophosphoramidate)	152-16-9	0.15	0.5	0.8	3.5	mg/m <sup>3</sup>	
2135	Octanal, 1-; (Octanal; Octanaldehyde)	124-13-0	20	60	500	500	mg/m <sup>3</sup>	
2136	Octanamine, 1-	111-86-4	0.4	1.25	7.5	40	mg/m <sup>3</sup>	
2137	Octane, n-	111-65-9	300	300	385	<b>1000</b>	ppm	T-2 changed. See LEL formatting note.
2138	Octanedione, 2,5-	3214-41-3	20	60	500	500	mg/m <sup>3</sup>	Not found in databases. Toxicity based on octane
2139	Octanenitrile	124-12-9	1.5	4	30	150	ppm	

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2140	Octanethiol, 1-	111-88-6	0.025	0.075	0.5	150	ppm	Added, toxicity data ex HSDB
2141	Octanoic acid; (Caprylic acid)	124-07-2	40	125	500	500	mg/m <sup>3</sup>	
2142	Octanol, 2-	123-96-6	12.5	35	250	350	mg/m <sup>3</sup>	HSDB, TSCA give CAS RN = 123-96-6, changed from 4128-31-8, duplicate deleted.
2143	Octanone, 2-	111-13-7	60	200	200	500	mg/m <sup>3</sup>	
2144	Octaphenylcyclotetrasiloxane	546-56-5	20	60	400	500	mg/m <sup>3</sup>	RTECS LD 50 > 4640 mg/kg
2145	<b>Octene, 1-</b>	<b>111-66-0</b>	40	40	800	<i>2000</i>	ppm	<b>ERPG-1, -2, -3. See LEL formatting note.</b>
2146	Octyl alcohol; (n-octanol)	111-87-5	50	50	50	350	mg/m <sup>3</sup>	WEEL-TWA added, toxicity data changed. All TS changed.
2147	Octyl(phenyl)-N,N-diisobutylcarbamoylmethylphosphine oxide	83242-95-9	10	30	50	250	mg/m <sup>3</sup>	
2148	Oil gas; (Oil fog)	z-0035	450	1750	3000	4500	ppm	4.2% illuminants, 10.4% CO, 47.6% H, 27.0% CH <sub>4</sub> , 4.6% CO <sub>2</sub> , 5.8% N, 0.4% O <sub>2</sub>
2149	<b>Oleum; (fuming sulfuric acid)</b>	<b>8014-95-7</b>	0.2	0.2	8.7	160	mg/m <sup>3</sup>	<b>Interim AEGL-1, -2, -3. All Ts changed.</b>

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2150	Organorhodium complex	z-0036	0.292	8.75	15	500	mg/m <sup>3</sup>	MW assumed, insol Rh conc. limits used. T-0, T-1 changed.
2151	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.
2152	Osmium	7440-04-2	0.25	0.75	6	30	mg/m <sup>3</sup>	Added
2153	Osmium tetroxide	20816-12-0	0.0027	0.0027	0.0096	1.34	ppm	T-0, T-1, T-3 changed.
2154	<b>Otto Fuel (mainly Propylene glycol dinitrate 6423-43-4)</b>	<b>106602-80-6</b>	0.05	0.17	1	13	ppm	<b>Final AEGL-1, -2, -3</b>
2155	Ouabain	630-60-4	1.5	5	8.3	12.5	mg/m <sup>3</sup>	
2156	Oxalic acid, anhydrous; (Ethanedioic acid)	144-62-7	1	2	500	500	mg/m <sup>3</sup>	T-2 changed.
2157	Oxalic acid, dihydrate	6153-56-6	1	2	500	500	mg/m <sup>3</sup>	T-2 changed.
2158	Oxalyl chlorine	79-37-8	1.5	5	40	200	ppm	Added.
2159	Oxamide	471-46-5	1.5	5	40	200	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2160	Oxamyl	23135-22-0	0.35	1	1.7	15	mg/m <sup>3</sup>	
2161	Oxathiane, 1,4-	15980-15-1	4	12.5	75	400	ppm	See LEL formatting note.
2162	Oxirane, ethenyl-; (3,4-Epoxy-1-butene)	930-22-3	3	10	25	25	ppm	
2163	Oxone, monopersulfate compound	37222-66-5	10	30	50	250	mg/m <sup>3</sup>	Not found in databases
2164	Oxybis(n,n-dimethylethanamine), 2,2'-; (Bis(2-dimethylaminoethyl) ether; DMAEE)	3033-62-3	0.05	0.15	15	15	ppm	Added.
2165	Oxydiacetic acid; (Oxodiacetic acid)	110-99-6	2	6	40	200	mg/m <sup>3</sup>	
2166	Oxydiethylenedicarbonic acid, diallyl ester	142-22-3	3	10	60	125	mg/m <sup>3</sup>	
2167	Oxydiphenoxarsine, 10,10'-; (Phenoxyarsine oxide)	58-36-6	1.68	2	14	14	mg/m <sup>3</sup>	Organic arsenic compound.
2168	Oxydisulfoton	2497-07-6	0.6	2	3.5	3.5	mg/m <sup>3</sup>	
2169	Oxygen (liquid)	7782-44-7					ppm	PAC values withdrawn.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2170	Oxygen difluoride; (Fluorine monoxide)	7783-41-7	0.05	0.05	0.05	0.5	ppm	
2171	Ozone	10028-15-6	0.1	0.1	1	5	ppm	
2172	Palladium	7440-05-3	10	30	50	200	mg/m <sup>3</sup>	T-2 changed.
2173	Palladium chloride	7647-10-1	0.15	0.4	3	500	mg/m <sup>3</sup>	
2174	Palladium hydroxide	12135-22-7	0.125	0.3	2.5	75	mg/m <sup>3</sup>	<b>SAR</b>
2175	Paraffin waxes, petroleum, clay-treated, reaction products with petroleum white mineral oil, stearic acid and triethanolamine	71808-29-2	10	30	50	250	mg/m <sup>3</sup>	TSCA-listed, name changed.
2176	Paraffin, n-	8002-74-2	2	15	15	500	mg/m <sup>3</sup>	T-1, T-2 changed.
2177	Paraffins, petroleum, normal C5-C20	64771-72-8	300	300	300	300	ppm	
2178	Paraformaldehyde	30525-89-4	4	12.5	75	100	mg/m <sup>3</sup>	See LEL formatting note.
2179	Paraldehyde	123-63-7	10	30	50	500	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2180	Paraquat	4685-14-7	0.15	0.15	0.15	150	mg/m <sup>3</sup>	
2181	Paraquat dichloride	1910-42-5	0.1	0.3	1	1	mg/m <sup>3</sup>	
2182	Paraquat methosulfate; (Paraquat dimethyl sulphate)	2074-50-2	0.75	2	15	40	mg/m <sup>3</sup>	
2183	Parathion	56-38-2	0.1	0.3	2	10	mg/m <sup>3</sup>	
2184	Paris Green; (Cupric acetoarsenite)	12002-03-8	1.13	3.38	22	22	mg/m <sup>3</sup>	T-0, T-1 changed.
2185	Particulate material (PNOS)	z-0037	10	30	50	250	mg/m <sup>3</sup>	
2186	PBX (mixture of HMX and nitrocellulose)	z-0038	0.24	0.6	5	500	mg/m <sup>3</sup>	
2187	Pentaborane	19624-22-7	0.005	0.015	0.31	1	ppm	See LEL formatting note.
2188	Pentachlorobenzene	608-93-5	10	30	150	400	mg/m <sup>3</sup>	T-2 changed.
2189	Pentachlorobenzo-p-dioxin, 1,2,3,7,8-	40321-76-4	0.0008	0.0025	0.015	0.075	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2190	Pentachlorodibenzofuran, 1,2,3,7,8-	57117-41-6	0.0025	0.0075	0.06	0.3	mg/m <sup>3</sup>	
2191	Pentachlorodibenzofuran, 2,3,4,7,8-	57117-31-4	3E-05	8E-05	0.0006	0.4	mg/m <sup>3</sup>	
2192	Pentachloroethane	76-01-7	10	30	500	500	mg/m <sup>3</sup>	
2193	Pentachloronitrobenzene	82-68-8	0.5	1.5	300	500	mg/m <sup>3</sup>	T-2 changed.
2194	Pentachlorophenol	87-86-5	0.5	2.5	2.5	2.5	mg/m <sup>3</sup>	T-1 changed.
2195	Pentadecafluorooctanoic acid	335-67-1	4	12.5	75	75	mg/m <sup>3</sup>	
2196	Pentadecane	629-62-9	3.5	10	60	350	ppm	See LEL formatting note.
2197	Pentadecanoic acid	1002-84-2	0.04	0.125	1	5	ppm	
2198	Pentadecylamine	2570-26-5	0.1	0.3	2	100	mg/m <sup>3</sup>	
2199	Pentaerythritol	115-77-5	15	30	50	500	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2200	Pentaerythritol tetra(3-mercaptopropionate), reaction product	95823-35-1	10	30	50	250	mg/m <sup>3</sup>	Added. TSCA listed, no MSDS, toxicity or pchem data found,
2201	Pentaerythritol tetranitrate	78-11-5	0.015	0.05	0.35	500	mg/m <sup>3</sup>	
2202	Pentafluorobenzoic acid	602-94-8	0.75	2	15	75	mg/m <sup>3</sup>	Added.
2203	Pentafluoropropane, 1,1,1,3,3-	460-73-1	300	900	60000	60000	ppm	Toxicity data added. T-2 changed.
2204	Pentane, n-	109-66-0	610	610	610	<i>1500</i>	ppm	See LEL formatting note.
2205	Pentane-1,5-diol	111-29-5	7.5	25	150	500	mg/m <sup>3</sup>	
2206	Pentanedione, 2,4-; (Acetylacetone)	123-54-6	15	50	100	100	ppm	See LEL formatting note.
2207	Pentanenitrile	110-59-8	1.5	4	25	25	ppm	
2208	Pentanol, 2-; (sec-amyl alcohol; Methyl propyl carbinol; Isoamyl alcohol, secondary)	6032-29-7	100	125	125	500	ppm	See LEL formatting note.
2209	Pentanone, 2-	107-87-9	200	250	250	<i>1500</i>	ppm	See LEL formatting note.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2210	Pentanone, 3-; (Diethyl ketone)	96-22-0	200	300	300	750	ppm	See LEL formatting note.
2211	Pentatriacontane	630-07-9	10	30	50	250	mg/m <sup>3</sup>	
2212	Pentene, 1-	109-67-1	300	750	<i>6000</i>	<i>75000</i>	ppm	HSDB TClo used. RTECS data added. T-3 changed. See LEL formatting note.
2213	Pentobarbital sodium; (Nembutal sodium)	57-33-0	0.15	0.5	3.5	50	mg/m <sup>3</sup>	
2214	Pentyl alcohol, tert-; (tert-Amyl alcohol)	75-85-4	60	100	100	100	ppm	Pchem data varies in sources. Irritant in HSDB.
2215	Peptone; (Hydrolized protein, Tryptones)	73049-73-7	10	30	50	250	mg/m <sup>3</sup>	TSCA, H&N listed with Tryptones, no toxicity data
2216	<b>Peracetic acid</b>	<b>79-21-0</b>	0.05	0.17	0.5	4.8	ppm	<b>Interim AEGL-1, -2, -3.</b>
2217	Perboric acid, sodium salt	7632-04-4	0.5	1.5	10	500	mg/m <sup>3</sup>	
2218	Perchloric acid	7601-90-3	1	3.5	20	100	ppm	
2219	Perchloric acid, zinc salt, hexahydrate	10025-64-6	0.6	1.5	12.5	60	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2220	<b>Perchloroethylene; (Tetrachloroethylene)</b>	<b>127-18-4</b>	25	35	230	1200	ppm	<b>Interim AEGL-1, -2, -3. See LEL formatting note.</b>
2221	<b>Perchloromethyl mercaptan</b>	<b>594-42-3</b>	0.013	0.013	0.3	0.9	ppm	<b>Interim AEGL-1, -2, -3. All Ts changed.</b>
2222	Perchloryl fluoride; (Chlorine oxyfluoride)	7616-94-6	3	6	20	100	ppm	EROGs removed.
2223	Percoll	65455-52-9	10	30	50	250	mg/m <sup>3</sup>	Not found in databases, assumed nonvolatile liquid.
2224	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.
2225	Perfluoroalkylether polymer; (Capped homopolymers of hexafluoropropylene epox, Fluorine End-)	60164-51-4	75	250	500	500	mg/m <sup>3</sup>	Added. TSCA listed, no toxicity data, HHR = 1 ex SRS.
2226	<b>Perfluoroisobutylene; (Octafluoro-sec-butene)</b>	<b>382-21-8</b>	0.01	0.01	0.1	0.3	ppm	<b>ERPG-2, -3</b>
2227	Perfluoropolyether; (1,1,2,3,3,3-hexafluoro-1-propene, oxidized; Vacuum pump oil)	69991-67-9	10	30	200	500	mg/m <sup>3</sup>	Toxicity estimated from Hexafluoropropene, MSDS states an irritant.
2228	Periodic acid	10450-60-9	0.18	0.18	0.5	5	mg/m <sup>3</sup>	No toxicity data, used iodine values. T-0, T-1 changed.
2229	Periodic acid, sodium salt	7790-28-5	0.25	0.75	5	25	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2230	Perlite; (Fused NaKAl silicate, < 1% quartz)	93763-70-3	10	30	50	500	mg/m <sup>3</sup>	
2231	Permafluor E+	z-0039	100	150	500	500	mg/m <sup>3</sup>	Mixture ex MSDS
2232	Permafluor-V (85+% toluene)	z-0040	50	150	300	500	ppm	Mixture PPO, bis-MSB is 85-90% toluene, 10% methanol
2233	Peroxydicarbonic acid, disodium salt	3313-92-6	7.5	25	150	500	mg/m <sup>3</sup>	
2234	Petrolatum	8009-03-8	15	50	350	500	mg/m <sup>3</sup>	Added.
2235	Petroleum 50 thinner; (Paint thinner)	z-0041	7.5	25	150	750	ppm	
2236	Petroleum asphalt	8052-42-4b	1.25	4	25	125	mg/m <sup>3</sup>	See Asphalt (ARO500), same CAS RN, different toxicity
2237	Petroleum coke, calcined	64743-05-1	10	30	50	500	mg/m <sup>3</sup>	TSCA listed, no toxicity data.
2238	Petroleum distillate	8002-05-9a	350	350	500	500	mg/m <sup>3</sup>	See Petroleum (PCR250), same CAS RN, different toxicity
2239	Petroleum distillates, clay-treated light naphthenic	64742-45-6	20	60	400	500	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2240	Petroleum distillates, low boiling	68477-31-6	85	255	445	1100	ppm	Added. NIOSH petroleum distillates limits used. Used conc. dep. = N rather than "Y".
2241	Petroleum mineral oil; (Extracts, petroleum, middle distillate solvent)	64742-06-9	10	30	500	500	mg/m <sup>3</sup>	
2242	Petroleum spirits; (VM & P Naphtha)	8032-32-4	300	300	395	395	ppm	See LEL formatting note.
2243	Petroleum spirits; (Mineral spirits; Soltrol)	64475-85-0	20	60	400	<i>2000</i>	ppm	See LEL formatting note.
2244	Petroleum; (Petroleum crude oil)	8002-05-9b	500	500	500	500	mg/m <sup>3</sup>	Same CAS RN as Petroleum distillate, PCS250, different toxicity. See LEL formatting note.
2245	Phenacetin; (p-acetophenetidide)	62-44-2	10	30	50	60	mg/m <sup>3</sup>	
2246	Phenaglycodol; (Ultran; 2-p-chlorophenyl-3-methyl-2,3-butanediol)	79-93-6	10	30	50	350	mg/m <sup>3</sup>	
2247	Phenanthrene	85-01-8	0.4	1	7.5	300	mg/m <sup>3</sup>	See LEL formatting note.
2248	Phenanthroline ferrous sulfate, 1,10-	14634-91-4	10	30	50	250	mg/m <sup>3</sup>	
2249	Phenanthroline, 1,10-	66-71-7	0.1	0.3	2	30	mg/m <sup>3</sup>	Name changed to match CAS RN

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2250	<b>Phenol</b>	<b>108-95-2</b>	5	15	23	200	ppm	<b>Interim AEGL-1, -2, -3. ERPG-1, -2, -3. See LEL formatting note.</b>
2251	Phenol red, sodium salt	34487-61-1	7.5	25	150	500	mg/m <sup>3</sup>	Added. TSCA listed, no toxicity data found.
2252	Phenol, polymer with formaldehyde, oxiranylmethyl ether	28064-14-4	15	50	350	500	mg/m <sup>3</sup>	TSCA listed mixture, no toxicity data, MSDS state, BP, VP, SG.
2253	Phenolphthalein	77-09-8	0.75	2.5	15	400	mg/m <sup>3</sup>	
2254	Phenoxyethanol, 2-; (Phenyl cellosolve)	122-99-6	20	20	20	100	ppm	Added.
2255	Phenyl Chloroformate; (Carbonochloridic acid phenyl ester)	1885-14-9	0.04	0.125	0.75	4	ppm	Added. Pchem data ex MSDS.
2256	Phenyl dichloroarsine; (Dichlorophenylarsine)	696-28-6	1.49	1.49	4	125	mg/m <sup>3</sup>	
2257	Phenyl ether; (Diphenyl ether)	101-84-8	1	2	20	100	ppm	T-2 changed. See LEL formatting note.
2258	Phenyl isocyanate.	103-71-9	0.3	0.75	2	2	mg/m <sup>3</sup>	Added.
2259	Phenyl sepharose	69106-59-8	10	30	50	250	mg/m <sup>3</sup>	Added. Not found in databases, no MSDS for this CAS RN. MSDS for Phenyl sepharose 6-fast flow gives HHR = 2.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2260	Phenyl-1,2-propanedione, 1-	579-07-7	2.5	7.5	50	250	mg/m <sup>3</sup>	
2261	Phenyl-2-oxzaoline, 2-	7127-19-7	1	3	5	25	ppm	Added. Not found in databases. No useful data in MSDS.
2262	Phenylacetylene; (Ethyne)benzene)	536-74-3	40	100	500	500	mg/m <sup>3</sup>	Added.
2263	Phenylazo)aniline, p-(	60-09-3	0.6	2	12.5	75	mg/m <sup>3</sup>	
2264	Phenylboric Acid; (Benzeneboronic acid)	98-80-6	3	7.5	60	300	mg/m <sup>3</sup>	
2265	Phenylcyclohexane; (Cyclohexylbenzene)	827-52-1	40	125	500	500	mg/m <sup>3</sup>	Mouse ip LD50 ignored.
2266	Phenylene diisocyanate, 1,4-	104-49-4	3.5	10	35	35	mg/m <sup>3</sup>	
2267	Phenylenediamine dihydrochloride, 1,2-	615-28-1	10	30	125	125	mg/m <sup>3</sup>	
2268	Phenylenediamine dihydrochloride, 1,4-	624-18-0	0.6	1.5	12.5	60	mg/m <sup>3</sup>	
2269	Phenylenediamine, 1,2-; (o-Phenylenediamine)	95-54-5	0.1	0.3	200	500	mg/m <sup>3</sup>	T-2 changed.

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

**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2270	Phenylenediamine, 1,3-; (m-Phenylenediamine)	108-45-2	0.1	0.3	10	125	mg/m <sup>3</sup>	T-2 changed.
2271	Phenylenediamine, p-	106-50-3	0.1	0.6	4	25	mg/m <sup>3</sup>	T-1, T-2 changed.
2272	Phenylhydrazine	100-63-0	0.10	0.30	2.00	15	ppm	PEL-TWA and REL-C ignored. T-2 changed.
2273	Phenylhydrazine hydrochloride	59-88-1	50	150	250	250	mg/m <sup>3</sup>	
2274	Phenylmagnesium bromide	100-58-3	1.5	5	35	150	mg/m <sup>3</sup>	Added. No toxicity or pchem data found, HHR = 3 from MSDS.
2275	Phenylmercury acetate; (Acetoxyphenylmercury)	62-38-4	0.1	0.1	10.0	10	mg/m <sup>3</sup>	
2276	Phenylphenol, 2-	90-43-7	25	75	500	500	mg/m <sup>3</sup>	
2277	Phenylphosphine	638-21-1	0.05	0.05	0.05	15	ppm	
2278	Phenylpropanol, 2-; (Dimethylphenylmethanol)	617-94-7	1	3	20	100	ppm	SAR Ts = 4, 12.5, 100, 200 mg/m <sup>3</sup> not used
2279	Phenylpropanolamine hydrochloride; (Propadrine hydrochloride)	154-41-6	0.06	0.15	1.25	500	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2280	Phenylsilatrane	2097-19-0	0.2	0.6	1	1	mg/m <sup>3</sup>	
2281	Phenylthiourea; (1-phenyl-2-thiourea)	103-85-5	3	3	3	3	mg/m <sup>3</sup>	
2282	Phenyltriethoxysilane	780-69-8	10	35	250	500	mg/m <sup>3</sup>	
2283	Phenyltrimethoxysilane	2996-92-1	1.5	4	30	150	mg/m <sup>3</sup>	
2284	Phenylxylylethane; (PXE)	6196-95-8	10	30	50	250	mg/m <sup>3</sup>	
2285	Phloroglucinol dihydrate	6099-90-7	4	12.5	75	400	mg/m <sup>3</sup>	Mouse LD > 500 mg/kg.
2286	Phorate	298-02-2	0.05	0.1	0.6	0.6	mg/m <sup>3</sup>	
2287	Phosacetim	4104-14-7	0.75	2	3.7	3.7	mg/m <sup>3</sup>	
2288	Phosfolan	947-02-4	1.5	5	9	9	mg/m <sup>3</sup>	
2289	<b>Phosgene</b>	<b>75-44-5</b>	0.1	0.1	0.3	0.75	ppm	<b>Final AEGL-2, -3.</b>

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2290	Phosmet	732-11-6	0.025	0.075	0.54	40	mg/m <sup>3</sup>	
2291	Phosphamidon; (Famfos)	13171-21-6	0.06	0.15	0.3	60	mg/m <sup>3</sup>	
2292	<b>Phosphine</b>	<b>7803-51-2</b>	0.3	1	2	3.6	ppm	<b>Interim AEGL-2, -3. See LEL formatting note.</b>
2293	Phosphomolybdic acid	11104-88-4	16.7	50	83.3	400	mg/m <sup>3</sup>	Added. TSCA listed, no toxicity or pchem data found. SG and HR ex SRS.
2294	Phosphonic acid	13598-36-2	2	6	50	500	mg/m <sup>3</sup>	
2295	Phosphonic acid, dioctadecyl ester	19047-85-9	0.02	0.06	0.4	2	mg/m <sup>3</sup>	<b>SAR</b>
2296	Phosphonic acid, tridodecyl ester	3076-63-9	12.5	40	250	500	mg/m <sup>3</sup>	Rat oral LD > 3160 mg/kg
2297	Phosphoric acid	7664-38-2	1	3	500	500	mg/m <sup>3</sup>	T-2 changed.
2298	Phosphoric acid dimethyl-p-(methylthio)phenyl ester	3254-63-5	1.25	4	7	7	mg/m <sup>3</sup>	
2299	Phosphorous acid, o-; (Phosphonic acid)	10294-56-1	1	3	200	500	mg/m <sup>3</sup>	Added. TSCA and ChemFinder listed with no pchem or toxicity data. Assumed phosphoric acid limits.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2300	Phosphorous pentafluoride	7647-19-0	0.644	1.5	12.5	64.4	ppm	All Ts changed.
2301	Phosphorous trifluoride	7783-55-3	1.07	3	20	107	ppm	T-0, T-1, T-3 changed.
2302	Phosphorus (red)	7723-14-0	0.04	0.125	0.75	4	mg/m <sup>3</sup>	Concentration limits deleted, T-0, T-1, T-2 changed.
2303	Phosphorus (yellow)	12185-10-3	0.1	0.4	3	5	mg/m <sup>3</sup>	CAS RN changed, data changed, T-1 changed.
2304	<b>Phosphorus oxychloride</b>	<b>10025-87-3</b>	0.1	0.479	0.479	0.85	ppm	<b>Interim AEGL-3.</b> T-2 changed.
2305	Phosphorus pentachloride	10026-13-8	1	2	12.5	70	mg/m <sup>3</sup>	T-2 changed.
2306	Phosphorus pentasulfide	1314-80-3	1	3	50	250	mg/m <sup>3</sup>	T-2 changed.
2307	<b>Phosphorus pentoxide</b>	<b>1314-56-3</b>	1	1	10	50	mg/m <sup>3</sup>	<b>ERPG-1, -2, -3</b>
2308	<b>Phosphorus trichloride</b>	<b>7719-12-2</b>	0.34	0.34	2	5.6	ppm	<b>Interim AEGL-1, -2, -3.</b>
2309	Phosphorus trioxide	1314-24-5	0.4	1.25	7.5	40	mg/m <sup>3</sup>	No toxicity data found, LC50 based on SAX HR

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2310	Phthalic acid	88-99-3	0.02	0.06	0.5	500	mg/m <sup>3</sup>	
2311	Phthalic anhydride	85-44-9	12	12	40	60	mg/m <sup>3</sup>	T-2 changed. See LEL formatting note.
2312	Phthaloyl dichloride; (Phthaloyl chloride)	88-95-9	0.1	0.3	2	10	ppm	Added. TSCA listed, no toxicity data found. HHR =3 from MSDS.
2313	Physostigmine	57-47-6	0.75	2.5	4.5	4.5	mg/m <sup>3</sup>	
2314	Physostigmine salicylate(1:1)	57-64-7	0.5	1.5	2.5	2.5	mg/m <sup>3</sup>	
2315	Picolinic acid; (2-Pyridinecarboxylic acid)	98-98-6	10	35	150	150	mg/m <sup>3</sup>	HC&P pchem data
2316	Picric acid	88-89-1	0.1	0.3	15	75	mg/m <sup>3</sup>	T-2 changed.
2317	Picrotoxin	124-87-8	3	7.5	15	15	mg/m <sup>3</sup>	
2318	Pigment green 36	14302-13-7	15	50	350	500	mg/m <sup>3</sup>	
2319	Pigment yellow 13; (Butanamide, 2,2'-((3,3'-dichloro(1,1'-biphenyl)-4,4'-diyl)bis(azo)bis(N-(2,4-dimethylphenyl)-3-oxo-	5102-83-0	75	250	500	500	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2320	Pigment yellow 14	5468-75-7	20	60	400	500	mg/m <sup>3</sup>	
2321	Pigment yellow 36; (Zinc chromate)	13530-65-9	0.0176	0.106	15	52.9	mg/m <sup>3</sup>	New OSHA PEL-TWA. All Ts changed.
2322	Pinacolone; (3,3-Dimethyl-2-butanone)	75-97-8	1.5	4.88	200	1000	ppm	See LEL formatting note.
2323	Pinacolyl alcohol; ((tert-Butyl methyl carbinol)	464-07-3	250	750	750	750	ppm	See LEL formatting note.
2324	Piperazine	110-85-0	2	6	40	500	mg/m <sup>3</sup>	
2325	<b>Piperidine</b>	<b>110-89-4</b>	1	6.6	33	110	ppm	<b>Interim AEGL-1, -2, -3. All Ts changed. See LEL formatting note.</b>
2326	Pirimifos-ethyl	23505-41-1	5	15	25	60	mg/m <sup>3</sup>	
2327	Pivalic anhydride; (Trimethylacetic anhydride)	1538-75-6	10	30	50	250	mg/m <sup>3</sup>	TSCA listed, no toxicity data, no MSDS found, assumed non-volatile.
2328	Platinum	7440-06-4	1	3	4	4	mg/m <sup>3</sup>	
2329	Platinum cyanide	592-06-3	0.0025	0.0076	0.0127	5.07	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2330	Poly alpha olefin; (Synthetic hydrocarbon mixture, PAO)	68649-12-7	5	10	50	250	mg/m <sup>3</sup>	T-2 changed.
2331	Poly(1-(2-oxo-1-pyrrolidinyl)ethylene)iodine complex; (Iodine solutions)	25655-41-8	12.5	25	25	125	mg/m <sup>3</sup>	MSDS mixture components used
2332	Poly(1-vinyl-2-pyrrolidinone) homopolymer; (Polyvinylpyrrolidone; Plasdone)	9003-39-8	100	300	500	500	mg/m <sup>3</sup>	RTECS 9 listings, used "homopolymer".
2333	Poly(acrylamide-co-dially	26590-05-6	10	30	50	250	mg/m <sup>3</sup>	Added. TSCA listed, no toxicity data found.
2334	Poly(dimethylsiloxane), ethoxylated, dihydroxy terminated; (Silicon oil polymer)	68037-63-8	75	250	500	500	mg/m <sup>3</sup>	Added. TSCA listed, no toxicity data found, HHR =1 estimated.
2335	Poly(dimethylsiloxane), hydride terminated	70900-21-9	10	30	50	250	mg/m <sup>3</sup>	Added. TSCA listed, no toxicity or pchem data found.
2336	Poly(dimethylsiloxane),vi	68083-19-2	60	200	500	500	mg/m <sup>3</sup>	Added. RTECS rat LD50 > 16 mL/kg. No pchem data found, SG = 1 assumed.
2337	Poly(ethylene glycol methyl ether)	9004-74-4	75	250	500	500	mg/m <sup>3</sup>	Added. Lowest MW and most toxic of three entries chosen, assumed SG - 1.
2338	Poly(ethylene glycol)diacrylate	26570-48-9	1.5	5	35	150	mg/m <sup>3</sup>	Added, TSCA listed, no toxicity or pchem data found, HHR = 3 in MSDS.
2339	Poly(melamine-co-formaldehyde), methylated	68002-20-0	60	150	500	500	mg/m <sup>3</sup>	Added. CAS RN and name corrected. MW average.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2340	Poly(oxyethylene)(2) stearyl ether	9005-00-9	7.5	20	150	500	mg/m <sup>3</sup>	Added. Most toxic of three RTECS entries used.
2341	Poly(Styrene-co-divinylbenzene); (Dowex Optipore V-502)	69011-14-9	10	30	50	250	mg/m <sup>3</sup>	Added. TSCA listed, no pchem or toxicity data found.
2342	Polyamide 6; (Capron; Poly(iminocarbonylpentamethylene))	25038-54-4	10	30	200	500	mg/m <sup>3</sup>	MW = 111 x n
2343	Polybutyl acrylate	9003-49-0	10	30	50	250	mg/m <sup>3</sup>	No toxicity data
2344	Polychlorinated biphenyl (Aroclor 1016); (Chlorodiphenyl (41% Cl))	12674-11-2	0.2	0.6	1	5	mg/m <sup>3</sup>	
2345	Polychlorinated biphenyl (Aroclor 1016/1242); (Chlorodiphenyl (37% Cl))	z-0042	0.2	0.6	1	5	mg/m <sup>3</sup>	
2346	Polychlorinated biphenyl (Aroclor 1221); (Chlorodiphenyl (21% Cl))	11104-28-2	0.2	0.6	1	5	mg/m <sup>3</sup>	
2347	Polychlorinated biphenyl (Aroclor 1232); (Chlorodiphenyl (32% Cl))	11141-16-5	0.2	0.6	1	5	mg/m <sup>3</sup>	
2348	Polychlorinated biphenyl (Aroclor 1242); (Chlorodiphenyl (42% Cl))	53469-21-9	1	3	5	5	mg/m <sup>3</sup>	
2349	Polychlorinated biphenyl (Aroclor 1248); (Chlorodiphenyl (48% Cl))	12672-29-6	0.2	0.6	1	5	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2350	Polychlorinated biphenyl (Aroclor 1254); (Chlorodiphenyl (54% Cl))	11097-69-1	0.5	1.5	2.5	5	mg/m <sup>3</sup>	
2351	Polychlorinated biphenyl (Aroclor 1260); (Chlorodiphenyl (60% Cl))	11096-82-5	0.2	0.6	1.5	5	mg/m <sup>3</sup>	
2352	Polychlorinated biphenyl (Aroclor 1260/1262); (Chlorodiphenyl (61% Cl?))	z-0043	0.2	0.6	1.5	5	mg/m <sup>3</sup>	Used Aroclor 60% Cl. LANL CAS RN not used since it is for 60% Cl
2353	Polychlorinated biphenyl (Aroclor 1262); (Chlorodiphenyl (62% Cl))	37324-23-5	1	3	5	5	mg/m <sup>3</sup>	
2354	Polychlorinated biphenyl (Aroclor 1268); (Chlorodiphenyl (68% Cl))	11100-14-4	0.2	0.6	1	5	mg/m <sup>3</sup>	Used IDLH for other aroclors
2355	Polychlorinated biphenyl; (Aroclor; PCBs)	1336-36-3	1	3	5	5	mg/m <sup>3</sup>	MW range = 292-361
2356	Polydimethyl siloxane; (Dimethylpolysiloxane)	9016-00-6	7.5	25	150	500	mg/m <sup>3</sup>	Rat ip LD50
2357	Polydimethyl siloxanes	7013-67-8	500	500	500	500	mg/m <sup>3</sup>	Added. Not found, rabbit LD > 978 g/m <sup>3</sup> for 7.5 hrs. for Dimethyl siloxane, 63148-62-9.
2358	Polyether polyol ester	z-0112	15	50	350	500	mg/m <sup>3</sup>	Added. Listed in RTECS, no CAS RN or pchem data
2359	<b>Polyethylbenzene residue; (Dowtherm Q)</b>	<b>68987-42-8</b>	1	3	19.2	100	ppm	<b>ERPG-2 only (150 mg/m<sup>3</sup>).</b>

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2360	Polyethylene	9002-88-4	10	30	50	500	mg/m <sup>3</sup>	
2361	Polyethylene glycol	25322-68-3	10	60	500	500	mg/m <sup>3</sup>	T-1, T-2 changed.
2362	Polyethylene glycol 20M	37225-26-6	10	30	500	500	mg/m <sup>3</sup>	No toxicity data, CAS RN 37225-26-6, SAX PJT000 data used. T-2 changed.
2363	Polyethylene glycol dimethacrylate	25852-47-5	10	30	50	250	mg/m <sup>3</sup>	Added. TSCA listed, no toxicity or pchem data found.
2364	Polyglycol 15-200: (Calthane NF and ND "B")	9082-00-2	40	125	500	500	mg/m <sup>3</sup>	
2365	Polyisocyanate prepolymer (based on MDI)	zz-0001	0.6	1.5	12.5	60	mg/m <sup>3</sup>	Added. Used "... -hexamethalene-1,6-diisocyanate-based-", RTECS NO9190000
2366	Polymaleic acid; (2-Butenediiodic acid homopolymer)	26099-09-2	10	30	50	250	mg/m <sup>3</sup>	Added. TSCA listed, no toxicity or pchem data found.
2367	Polymerized Linseed Oil	67746-08-1	7.5	25	150	500	mg/m <sup>3</sup>	Added. TSCA listed. No toxicity or pchem data found. No MSDS found. SRS HHR = 2.
2368	Polymethylene polyphenyl isocyanate; (Polymeric diphenylmethane diisocyanate)	9016-87-9	2	6	40	200	mg/m <sup>3</sup>	Added.
2369	Polymethylhydrosiloxane; (Methyl hydrogen polysiloxane)	63148-57-2	10	30	50	250	mg/m <sup>3</sup>	Added. TSCA and ChemFinder listed, no pchem or toxicity data found.

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2370	Polymethylmethacrylate; (Lucite)	9011-14-7	5	15	100	500	mg/m <sup>3</sup>	
2371	Polyoxyalkyleneamine; (Poly(oxypropylene)diamine)	9046-10-0	10	30	50	100	mg/m <sup>3</sup>	
2372	Polyoxyethylene (20) sorbitan monolaurate	9005-64-5	3	7.5	60	500	mg/m <sup>3</sup>	Polysorbate 20 same CAS RN, less toxic. Toxicity data changed, T-0, T-1, T-2 changed.
2373	Polyoxyethylene monoethylphenyl ether	9036-19-5	15	50	350	500	mg/m <sup>3</sup>	
2374	Polyoxyethylene sorbitan monopalmitate; (TWEEN 40)	9005-66-7	12.5	40	250	500	mg/m <sup>3</sup>	Added. No pchem data found.
2375	Polyoxypropylene polyamine	39423-51-3	10	30	50	250	mg/m <sup>3</sup>	Added. TSCA listed, no toxicity or pchem data found.
2376	Polyphosphoric acid	8017-16-1	1.5	5	40	200	mg/m <sup>3</sup>	No toxicity data, based Ts on MSDS data
2377	Polypropylene	9003-07-0	12.5	40	250	500	mg/m <sup>3</sup>	SAX PKI250 has same CAS RN for "combustion products", tox. data not used
2378	Polypropylene glycol, chloromethyl) oxirane polymer	9072-62-2	7.5	25	150	500	mg/m <sup>3</sup>	Added. Rat oral LD50 > 2 g/kg. No MSDS found.
2379	Polypropylene glycols	25322-69-4	10	30	200	500	mg/m <sup>3</sup>	RTECS has 16 listings, used PPG 425, changed T-1, T-2, T-3.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2380	Polypropylene-polyethylene glycol; (Pluronic L-81)	9003-11-6	10	30	200	500	mg/m <sup>3</sup>	
2381	Polysorbate 85; (TWEEN 85)	9005-70-3	75	250	500	500	mg/m <sup>3</sup>	Added. No toxicity data found.
2382	Polystyrene resin; (Styrene polymer)	9003-53-6	10	30	50	75	mg/m <sup>3</sup>	T-3 changed.
2383	Polysulfone resin	25135-51-7	10	30	50	250	mg/m <sup>3</sup>	Not found in databases.
2384	Polyurethane foam; (Urethane polymers)	9009-54-5	0.2	0.6	5	25	mg/m <sup>3</sup>	
2385	Polyurethane prepolymer of MDI	68092-58-0	10	30	50	250	mg/m <sup>3</sup>	Added. Listed in TSCA, no pchem or toxicity data.
2386	Polyurethane prepolymer of MDI + polyether polyol	65636-36-4	10	30	50	250	mg/m <sup>3</sup>	Added. TSCA listed, no toxicity or pchem data found.
2387	Polyvinyl alcohol	9002-89-5	40	125	500	500	mg/m <sup>3</sup>	
2388	Polyvinyl chloride	9002-86-2	6	18	500	500	mg/m <sup>3</sup>	T-2 changed.
2389	Potassium	7440-09-7	2	2	2	10	mg/m <sup>3</sup>	KOH limits used, and NaOH IDLH

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2390	Potassium acetate	127-08-2	12.5	40	250	500	mg/m <sup>3</sup>	
2391	Potassium acid fluoride	7789-29-9	5.14	15.4	25.7	500	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
2392	Potassium aluminate	12003-63-3	7.27	21.8	36.3	150	mg/m <sup>3</sup>	No toxicity data found. T-0, T-1, T-2 changed.
2393	Potassium aluminite	z-0044	2.5	7.5	12.5	500	mg/m <sup>3</sup>	<b>SAR</b>
2394	Potassium aluminosilicate	1327-44-2	5	30	50	500	mg/m <sup>3</sup>	<b>SAR</b>
2395	Potassium antimonate	29638-69-5	2.1	6.31	10.5	210	mg/m <sup>3</sup>	No toxicity data. All Ts changed.
2396	Potassium antimonate; (Potassium hexahydroxyantimonate)	12208-13-8	1.08	3.24	5.4	108	mg/m <sup>3</sup>	Used H&N MW & MF for this CAS RN. KSbO <sub>3</sub> not found. All Ts changed.
2397	Potassium antimonite	z-0045	0.94	2.82	4.7	94	mg/m <sup>3</sup>	All Ts changed.
2398	Potassium argentate	z-0046	0.0168	0.0503	0.0839	16.8	mg/m <sup>3</sup>	T-0, T-2, T-3 changed.
2399	Potassium arsenate; (Monopotassium arsenate)	7784-41-0	0.024	0.072	2.5	12	mg/m <sup>3</sup>	MW and MF differ by one H in RTECS, HSDB, etc. All Ts changed.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2400	Potassium arsenite	10124-50-2	0.0533	6	26.7	26.7	mg/m <sup>3</sup>	Used RTECS, HSDB, H&N, TSCA CAS RN, MW, MF. All Ts changed.
2401	Potassium arsenite; (Arsenous acid, potassium salt)	13464-35-2	0.0195	0.0585	6	9.74	mg/m <sup>3</sup>	All Ts changed.
2402	Potassium beryllium oxide	z-0047	0.016	0.08	6	32	mg/m <sup>3</sup>	All Ts changed.
2403	Potassium bicarbonate	298-14-6	12.5	35	60	500	mg/m <sup>3</sup>	TSCA MF = C-H2-O3.K; both H&N and HC&P same as SAX; no toxicity data found. SAR
2404	Potassium bi-iodate	13455-24-8	4	12.5	75	400	mg/m <sup>3</sup>	TSCA listed, No pchem data found, MSDS toxicity data.
2405	Potassium bismuthate	12589-75-2	1.25	4	25	200	mg/m <sup>3</sup>	RTECS CAS RN, with mw = 296.08, MF = Bi-O3.K., lists both LD50 & TDlo. SAR
2406	Potassium bisulfate	7646-93-7	10	30	200	500	mg/m <sup>3</sup>	
2407	Potassium bromate	7758-01-2	0.1	0.3	60	60	mg/m <sup>3</sup>	Updated toxicity data, added WEEL-TWA, all Ts changed.
2408	Potassium bromide	7758-02-3	12.5	40	250	500	mg/m <sup>3</sup>	
2409	Potassium cadminate	z-0048	0.0115	0.069	0.115	20.7	mg/m <sup>3</sup>	MF based on MW. All Ts changed.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2410	Potassium carbonate	584-08-7	10	20	150	500	mg/m <sup>3</sup>	T-2 changed.
2411	Potassium chlorate	3811-04-9	12.5	40	300	350	mg/m <sup>3</sup>	
2412	Potassium chloride	7447-40-7	1.5	5	15	15	mg/m <sup>3</sup>	
2413	Potassium chromate(VI)	7789-00-6	0.0187	0.75	6	56	mg/m <sup>3</sup>	New OSHA PEL-TWA. All Ts changed.
2414	Potassium citrate	866-84-2	1.25	4	30	150	mg/m <sup>3</sup>	
2415	Potassium citrate, monohydrate	6100-05-6	10	30	50	250	mg/m <sup>3</sup>	Not found in databases
2416	Potassium columbate; (Potassium niobate)	12030-85-2	12.5	35	250	500	mg/m <sup>3</sup>	
2417	Potassium cyanide	151-50-8	5	5	5	62.6	mg/m <sup>3</sup>	T-3 changed.
2418	Potassium dichromate	7778-50-9	0.0141	1.5	10	42.4	mg/m <sup>3</sup>	New OSHA PEL-TWA. All Ts changed.
2419	Potassium dideuterium phosphate	13761-79-0	0.0015	0.004	0.0075	0.2	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2420	Potassium ferricyanide	13746-66-2	5.9	17.7	30	500	mg/m <sup>3</sup>	T-1 changed.
2421	Potassium ferrocyanide; (Tetrapotassium hexacyanoferrate)	13943-58-3	11.8	35.4	59	59	mg/m <sup>3</sup>	"Trihydrate removed from name and MF, CAS RN and MW correct. T-0 changed.
2422	Potassium fluoride	7789-23-3	7.65	22.9	38.2	500	mg/m <sup>3</sup>	T-1, T-2 changed.
2423	Potassium fluoride dihydrate	13455-21-5	12.4	37.2	61.9	500	mg/m <sup>3</sup>	Added.
2424	Potassium formate	590-29-4	20	60	500	500	mg/m <sup>3</sup>	
2425	Potassium glycolate	1932-50-9	7.5	20	150	750	ppm	<b>SAR See LEL formatting note.</b>
2426	Potassium gold cyanide	554-07-4	27.7	83	138	138	mg/m <sup>3</sup>	Added. No toxicity or pchem data found, MW and MF ex ChemFinder.
2427	Potassium hexacyanoferrate(II) trihydrate; (Potassiumate ferrocyanide trihydratetrihydrate)	14459-95-1	13.5	40.6	67.6	67.6	mg/m <sup>3</sup>	T-0, T-2, T-3 changed.
2428	Potassium hexafluorosilicate; (Silicate(2-), hexafluoro-, dipotassium)	16871-90-2	0.4	1.25	7.5	60	mg/m <sup>3</sup>	Name changed. Fluoride conc. Limits deleted, T-0, T-1, T-2 changed.
2429	Potassium hydride	7693-26-7	1.5	5	35	150	mg/m <sup>3</sup>	Added. No toxicity data found.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2430	Potassium hydrogen lead oxide	z-0049	0.06	0.06	0.06	125	mg/m <sup>3</sup>	<b>SAR</b>
2431	Potassium hydrogen pyrophosphate	z-0050	4	12.5	20	400	mg/m <sup>3</sup>	<b>SAR</b>
2432	Potassium hydrogen silicate	z-0051	10	30	50	250	mg/m <sup>3</sup>	
2433	Potassium hydroxide	1310-58-3	2	2	2	150	mg/m <sup>3</sup>	
2434	Potassium iminodiacetate; (Potassium IDA)	z-0052	4	12.5	100	500	ppm	Disodium iminodiacetate is CAS RN 928-72-3, MW = 177.08. MW does not match MF. See LEL formatting note. SAR
2435	Potassium iodate	7758-05-6	20	60	60	60	mg/m <sup>3</sup>	
2436	Potassium iodide	7681-11-0	0.25	0.75	6	300	mg/m <sup>3</sup>	
2437	Potassium lanthanate	z-0053	0.4	1.25	2.5	2.5	mg/m <sup>3</sup>	<b>SAR</b>
2438	Potassium metaborate	13709-94-9	12.5	35	250	500	mg/m <sup>3</sup>	CAS RN ex LANL added, TSCA MF, MW used. SAR
2439	Potassium molybdate	13446-49-6	12.4	37.2	62.1	500	mg/m <sup>3</sup>	T-1, T-2 changed.

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2440	Potassium nickel oxide (liquids); (Nickel potassium oxide)	50811-97-7	2.88	2.88	3	28.8	mg/m <sup>3</sup>	All Ts changed.
2441	Potassium nickelate (liquids)	z-0055	3.49	3.49	3.5	34.9	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
2442	Potassium nickelate (solids)	z-0056	3.49	3.49	3.5	34.9	mg/m <sup>3</sup>	T-0, T-1 changed.
2443	Potassium nitrate	7757-79-1	1	3.5	20	500	mg/m <sup>3</sup>	SAX MW incorrect
2444	Potassium nitrilotriacetate; (Potassium NTA)	2399-85-1	5	15	100	500	mg/m <sup>3</sup>	
2445	Potassium nitrite	7758-09-0	0.04	0.1	0.75	500	mg/m <sup>3</sup>	
2446	Potassium orthovanadate	14293-78-8	0.0638	0.191	0.638	44.6	mg/m <sup>3</sup>	All Ts changed.
2447	Potassium oxalate	583-52-8	7.5	25	150	500	mg/m <sup>3</sup>	MF and MW from RTECS, TSCA and SAX.used but differ from HC&P, H&N, ChemFinder.
2448	Potassium oxalate monohydrate	6487-48-5	7.5	25	150	500	mg/m <sup>3</sup>	No toxicity data found. Used Potassium oxalate, CAS RN 583-52-8
2449	Potassium perchlorate	7778-74-7	125	400	500	500	mg/m <sup>3</sup>	

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2450	Potassium periodate	7790-21-8	1	3	20	100	mg/m <sup>3</sup>	Rat LC50 estimated from HR
2451	Potassium permanganate	7722-64-7	0.575	8.63	14.4	125	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
2452	Potassium persulfate; (Dipotassium persulfate)	7727-21-1	0.1	0.3	60	350	mg/m <sup>3</sup>	T-2 changed.
2453	Potassium pertechnetate	14133-76-7					mg/m <sup>3</sup>	OHMTADS uses this name and CAS RN. Naturally radioactive, T1/2 22000 years, TEELs eliminated.
2454	Potassium phosphate dibasic trihydrate	16788-57-1	300	500	500	500	mg/m <sup>3</sup>	Not found, but K phosphate dibasic, CAS RN = 7758-11-4, SAX PLQ400 toxicity used
2455	Potassium phosphate, dibasic	7758-11-4	10	30	50	250	mg/m <sup>3</sup>	
2456	Potassium phosphate, monobasic	7778-77-0	10	30	50	500	mg/m <sup>3</sup>	
2457	Potassium phosphate, tribasic	7778-53-2	10	30	50	500	mg/m <sup>3</sup>	
2458	Potassium pyrophosphate; (Tetrapotassium diphosphate)	7320-34-5	10	30	500	500	mg/m <sup>3</sup>	
2459	Potassium pyrosulfate; (Disulfuric acid, dipotassium salt)	7790-62-7	10	30	50	250	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2460	Potassium pyrosulfite	16731-55-8	20	60	400	500	mg/m <sup>3</sup>	
2461	Potassium selenate	7790-59-2	0.56	1.68	2.8	2.8	mg/m <sup>3</sup>	All Ts changed.
2462	Potassium selenite	10431-47-7	0.52	0.52	0.52	2.6	mg/m <sup>3</sup>	TSCA MF = 2K.H2SeO3. All Ts changed.
2463	Potassium silicate; (Silicic acid, potassium salt)	1312-76-1	10	30	50	250	mg/m <sup>3</sup>	Listed in HSDB and TSCA
2464	Potassium silver cyanide	506-61-6	1	3	20	20	mg/m <sup>3</sup>	
2465	Potassium stannate	12142-33-5	2.5	7.5	12.5	125	mg/m <sup>3</sup>	<b>SAR Potassium stannate trihydrate has CAS RN = 12125-03-0 mu iv LD50, and Sn cmpnd limits, Ts are 4, 12.5, 20, 150</b>
2466	Potassium strontium phosphate	53201-92-6	10	30	50	500	mg/m <sup>3</sup>	<b>SAR</b>
2467	Potassium sulfate (2:1); (Dipotassium sulfate)	7778-80-5	2	6	40	500	mg/m <sup>3</sup>	
2468	Potassium sulfite	10117-38-1	10	30	50	250	mg/m <sup>3</sup>	
2469	Potassium tellurate	15571-91-2	0.211	0.634	1.06	2	mg/m <sup>3</sup>	TSCA MF = 2K-Te-H2-O4. All Ts changed.

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2470	Potassium tellurite	7790-58-1	0.199	0.597	3.5	15	mg/m <sup>3</sup>	T-2 changed.
2471	Potassium tetrafluoroborate(1-)	14075-53-7	4.14	124	207	414	mg/m <sup>3</sup>	T-0, T-2, T-3 changed.
2472	Potassium tetraphenylborate	3244-41-5	1	3	5	25	mg/m <sup>3</sup>	Data from MSDS
2473	Potassium thiocyanate	333-20-0	10	35	60	60	mg/m <sup>3</sup>	
2474	Potassium trihydrogen silicate	z-0058	10	30	50	250	mg/m <sup>3</sup>	
2475	Potassium tungstate (liquids)	7790-60-5a	1.77	5.32	5.32	5.32	mg/m <sup>3</sup>	All Ts changed.
2476	Potassium tungstate (solids)	7790-60-5b	1.77	5.32	5.32	5.32	mg/m <sup>3</sup>	All Ts changed.
2477	Potassium uranyl carbonate	z-0059	0.429	1.03	3.5	17.2	mg/m <sup>3</sup>	All Ts changed.
2478	Potassium zirconate	12030-98-7	11.9	23.8	23.8	59.6	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
2479	Potassium-tert-butoxide; (tert-Butyl alcohol, potassium derivitave)	865-47-4	1.5	5	35	150	mg/m <sup>3</sup>	LD50 estimated, databases MF differ

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2480	Praseodymium	7440-10-0	1.5	5	35	150	mg/m <sup>3</sup>	Added. No toxicity data found.
2481	Praseodymium nitrate	10361-80-5	7.5	20	150	500	mg/m <sup>3</sup>	
2482	Praseodymium oxide	12036-32-7	7.5	25	150	500	mg/m <sup>3</sup>	No toxicity data found, rat oral LD50 estimated from other Pr compounds
2483	Praseodymium(III,IV) oxide	12037-29-5	20	60	400	500	mg/m <sup>3</sup>	RTECS rat LD50 > 5 g/kg' no pchem data found.
2484	Promecarb; (m-Cym-5-yl methylcarbamate)	2631-37-0	3	10	16	25	mg/m <sup>3</sup>	
2485	Propanamine, 1-; (Propylamine)	107-10-8	15	50	250	250	ppm	See LEL formatting note.
2486	<b>Propane</b>	<b>74-98-6</b>	1000	<i>5500</i>	<i>17000</i>	<i>33000</i>	ppm	<b>Interim AEGL-1, -2, -3. See LEL formatting note.</b>
2487	Propane sultone, 1,3-	1120-71-4	0.4	1.25	7.5	20	mg/m <sup>3</sup>	
2488	Propanediamine, 1,2-	78-90-0	7.5	25	200	500	mg/m <sup>3</sup>	
2489	Propanediamine, 1,3-	109-76-2	0.2	0.6	4	40	ppm	

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2490	<b>Propanedinitrile; (Malononitrile)</b>	<b>109-77-3</b>	3	3	4.9	10	ppm	<b>Interim AEGL-2, -3.</b>
2491	Propanediol, 1,3-	504-63-2	20	60	400	500	mg/m <sup>3</sup>	
2492	Propanediol, 2,2-dimethyl-, 1,3-	126-30-7	600	600	600	600	ppm	See LEL formatting note.
2493	Propanethiol	107-03-9	0.025	0.075	0.5	750	ppm	
2494	Propanol, zirconium(4+) salt, 1-	23519-77-9	18	53.9	89.8	180	mg/m <sup>3</sup>	Not found in databases. All Ts changed.
2495	Propargyl alcohol	107-19-7	1	1.5	12.5	60	ppm	T-2 changed.
2496	Propargyl bromide	106-96-7	0.03	0.03	0.03	20	mg/m <sup>3</sup>	See LEL formatting note.
2497	Propiolactone, b-	57-57-8	0.5	0.509	5.09	15	ppm	See LEL formatting note.
2498	<b>Propionaldehyde</b>	<b>123-38-6</b>	20	45	260	840	ppm	<b>Interim AEGL-1, -2, -3. All Ts and units changed. See LEL formatting note.</b>
2499	Propionic acid	79-09-4	10	10	15	350	ppm	See LEL formatting note.

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

**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2500	Propionic acid, 3-ethoxy-, ethyl ester	763-69-9	20	60	400	500	mg/m <sup>3</sup>	
2501	Propionic acid, sodium salt	137-40-6	15	50	350	500	mg/m <sup>3</sup>	
2502	Propionic anhydride	123-62-6	10	30	200	500	mg/m <sup>3</sup>	See LEL formatting note.
2503	<b>Propionitrile; (Propiononitrile)</b>	<b>107-12-0</b>	6	6	7	37	ppm	<b>Interim AEGL-2, -3. See LEL formatting note.</b>
2504	Propionyl chloride	79-03-8	0.075	0.2	1.5	7.5	ppm	
2505	Propoxur	114-26-1	0.5	1.5	20	20	mg/m <sup>3</sup>	
2506	Propyl acetate, N-	109-60-4	200	250	1000	<b>1700</b>	ppm	Added. See LEL formatting note.
2507	Propyl alcohol, n-	71-23-8	200	250	250	800	ppm	See LEL formatting note.
2508	Propyl chloroformate; (Propyl chlorocarbonate)	109-61-5	0.4	1.25	2	60	ppm	
2509	Propyl nitrate	627-13-4	25	40	200	1160	ppm	T-2 changed. See LEL formatting note.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2510	Propyl-1-butanamine, N-	20193-21-9	15	50	350	500	mg/m <sup>3</sup>	<b>SAR</b>
2511	Propylbenzene, N-; (Isocumene)	103-65-1	30	75	600	<b><i>3000</i></b>	ppm	See LEL formatting note.
2512	Propylene carbonate, 1,2-	108-32-7	0.125	0.35	2.5	12.5	mg/m <sup>3</sup>	
2513	Propylene glycol dinitrate	6423-43-4	0.05	0.05	0.1	15	ppm	Propylene glycol dinitrate is one component of "Otto fuel"
2514	Propylene glycol monomethyl ether acetate; (1-Methoxypropyl-2-acetate)	108-65-6	50	150	250	600	ppm	See LEL formatting note.
2515	Propylene glycol monomethyl ether; (UCAR TRIOL HG-170)	107-98-2	100	150	300	750	ppm	See LEL formatting note.
2516	Propylene glycol mono-n-butyl ether; (3-butoxy-1-propanol)	10215-33-5	50	50	300	500	ppm	WEEL-TWA corrected, toxicity data added. All Ts changed.
2517	Propylene glycol; (1,2-Propanediol)	57-55-6	10	10	10	500	mg/m <sup>3</sup>	WEEL-TWA corrected, toxicity data updated, all Ts and units changed. See LEL formatting note.
2518	<b>Propylene oxide; (Methyl ethylene oxide)</b>	<b>75-56-9</b>	20	73	290	870	ppm	<b>Interim AEGL-1, -2, -3. PEL-TWA ignored. See LEL formatting note.</b>
2519	Propylene; (1-Propene)	115-07-1	500	1500	<b><i>10000</i></b>	<b><i>20000</i></b>	ppm	Input data changed, T-2, T-3 changed. See LEL formatting note.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2520	<b>Propyleneimine, 1,2-</b>	<b>75-55-8</b>	2	2	12	23	ppm	<b>Interim AEGL-2, -3.</b>
2521	Prothoate; (Isopropyl diethylthiophosphorylacetamide)	2275-18-5	0.35	1	1.7	7.5	mg/m <sup>3</sup>	
2522	Pump oil	64742-65-0	100	300	500	500	mg/m <sup>3</sup>	
2523	Pyrene	129-00-0	2.5	7.5	15	15	mg/m <sup>3</sup>	
2524	Pyridine	110-86-1	5	15	200	1000	ppm	T-2 changed. See LEL formatting note.
2525	Pyridinecarboxaldehyde, 4-; (Isonicotinaldehyde)	872-85-5	12.5	40	250	500	mg/m <sup>3</sup>	Added.
2526	Pyridine-D5	7291-22-7	5	15	25	100	ppm	Added. Not listed in databases, MSDS toxicity and pchem data. See LEL formatting note.
2527	Pyriminil; (Pyriminyl)	53558-25-1	1.25	3.5	6.2	20	mg/m <sup>3</sup>	
2528	Pyrogallic acid	87-66-1	0.75	2.5	15	25	mg/m <sup>3</sup>	
2529	Pyromellitic acid	89-05-4	1.25	3.5	25	125	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2530	Pyroxylin; (Cellulose tetranitrate)	9004-70-0	10	30	50	500	mg/m <sup>3</sup>	
2531	Pyrrole; (Imidole)	109-97-7	0.035	0.1	0.75	4	ppm	Added.
2532	Pyrrolidine	123-75-1	5	15	100	500	mg/m <sup>3</sup>	
2533	Pyrrolidinone, 2-	616-45-5	1	3	20	40	ppm	
2534	Pyruvate kinase	9001-59-6	2.5	7.5	50	500	mg/m <sup>3</sup>	No data found. Glycolytic enzyme toxicity based on Kinase (9039-53-6) and Pyruvic acid (127-17-3)
2535	Quaternary ammonium compounds, benzyl-C12-C16-alkyldimethyl, chlorides	68424-85-1	1.5	5	35	150	mg/m <sup>3</sup>	
2536	Quinhydrone	106-34-3	0.3	0.75	6	30	mg/m <sup>3</sup>	
2537	Quinoline	91-22-5	0.001	0.6	5	25	ppm	WEEL-TWA added, T-0 changed. ERPGs in process
2538	Quinolinol, 8-	148-24-3	2.5	7.5	50	500	mg/m <sup>3</sup>	
2539	Resorcinol	108-46-3	10	20	20	20	ppm	See LEL formatting note.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2540	REXYN I-300; (Ethylene glycol dimethacrylate polymer with styrene, chloromethylated, trimethylamine-quaternized, hydroxide)	69011-49-0	10	30	50	250	mg/m <sup>3</sup>	Name corrected, TSCA listed, MW is for x = 1. No toxicity data found. SG ex MSDS.
2541	Rhenium hexafluoride	10049-17-9	6.58	19.8	32.9	500	mg/m <sup>3</sup>	TSCA, HC&P listed. No toxicity data found.
2542	Rhenium oxide; (Rhenium(VII) oxide)	1314-68-7	1.3	3.9	6.5	30	mg/m <sup>3</sup>	Soluble W limits used. T-0, T-1, T-2 changed.
2543	Rhodium	7440-16-6	0.1	3	5	100	mg/m <sup>3</sup>	
2544	Rhodium oxide (liquids); (Rhodium(IV) oxide)	12137-27-8a	0.0013	0.0393	0.5	2.6	mg/m <sup>3</sup>	Liquid treated as soluble. T-1, T-2, T-3 changed.
2545	Rhodium oxide (solids); (Rhodium(IV) oxide)	12137-27-8b	0.131	3.93	6.56	131	mg/m <sup>3</sup>	Solids treated as insoluble. T-0, T-2, T-3 changed.
2546	Rhodium(III) hydroxide (liquids)	21656-02-0a	0.0015	0.045	0.6	2.99	mg/m <sup>3</sup>	Liquid treated as soluble. T-2 changed.
2547	Rhodium(III) hydroxide (solids)	21656-02-0b	0.15	4.49	7.5	150	mg/m <sup>3</sup>	Solids treated as insoluble. T-1 changed.
2548	Rhodium(III) oxide (solids)	12036-35-0	0.123	3.7	6.17	123	mg/m <sup>3</sup>	T-1, T-2 changed.
2549	Riboflavine	83-88-5	7.5	25	150	500	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2550	Ribonuclease T1	9026-12-4	10	30	50	250	mg/m <sup>3</sup>	No toxicity data. PNOS option used.
2551	Ricin	9009-86-3	0.025	0.075	0.25	0.25	mg/m <sup>3</sup>	New human toxicity data found. RTECS human LC50 = 0.15 ug/kg not used. T-2, T-3 changed.
2552	Rosin core solder decomposition products; (Colophony Gum)	8050-09-7	0.1	0.3	40	40	mg/m <sup>3</sup>	SAX listing new, ignored very high human skin TClo.
2553	Rotenone	83-79-4	5	5	7.5	500	mg/m <sup>3</sup>	
2554	Rubber solvent; (Naphtha (petroleum) light aliphatic)	64742-89-8	100	100	200	1000	ppm	CAS RN = 8030-30-6 in SAX & HSDB
2555	Rubidium	7440-17-7	5	15	100	500	mg/m <sup>3</sup>	
2556	Rubidium bromide	7789-39-1	10	30	50	250	mg/m <sup>3</sup>	
2557	Rubidium chloride	7791-11-9	0.015	0.05	0.35	500	mg/m <sup>3</sup>	
2558	Rubidium hydroxide	1310-82-3	2.5	7.5	50	250	mg/m <sup>3</sup>	
2559	Rubidium nitrate	13126-12-0	10	30	50	500	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2560	Ruthenium	7440-18-8	10	30	50	250	mg/m <sup>3</sup>	
2561	Ruthenium trichloride	10049-08-8	1.5	4	30	150	mg/m <sup>3</sup>	
2562	Ruthenium(IV) oxide	12036-10-1	4	12.5	15	15	mg/m <sup>3</sup>	
2563	Safrol; (5-(2-Propenyl)-1,3-benzodioxole)	94-59-7	5	15	100	500	mg/m <sup>3</sup>	
2564	Salcomine; (bis(Salicylaldehyde)ethylenediimine cobalt(II))	14167-18-1	7.5	20	39	400	mg/m <sup>3</sup>	T-2 changed.
2565	Salicylaldehyde	90-02-8	0.6	1.5	12.5	200	mg/m <sup>3</sup>	Added.
2566	Salicylic acid	69-72-7	0.3	0.75	6	400	mg/m <sup>3</sup>	
2567	Salicylic acid, monoammonium salt	528-94-9	1.5	4	30	500	mg/m <sup>3</sup>	No pchem data found.
2568	Salicylic acid, phenyl ester	118-55-8	4	12.5	75	500	mg/m <sup>3</sup>	
2569	Samarium	7440-19-9	10	30	50	250	mg/m <sup>3</sup>	Added. No toxicity data found.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2570	Samarium nitrate	10361-83-8	7.5	25	150	500	mg/m <sup>3</sup>	
2571	Samarium(ii) iodide solution	32248-43-4	7.5	25	150	500	mg/m <sup>3</sup>	Added. Not found in databases. HRR = 2 from MSDS.
2572	Samarium(III) chloride hexahydrate	13465-55-9	12.5	40	250	500	mg/m <sup>3</sup>	Not found in databases. ChemFinder MF, MW, MSDS toxicity data.
2573	Samarium(III) oxide	12060-58-1	20	60	400	500	mg/m <sup>3</sup>	Rat oral LD50 > 5 g/kg
2574	Saxitoxin	35523-89-8	4E-05	0.0001	0.0006	0.0035	mg/m <sup>3</sup>	ChemFinder has MW = 315.3314, MF = C11.H21.N7.O4
2575	Scandium	7440-20-2	10	30	50	250	mg/m <sup>3</sup>	TSCA listed, no toxicity data.
2576	Scandium oxide	12060-08-1	10	30	50	250	mg/m <sup>3</sup>	No toxicity data found, PNOS used
2577	Sec-butyllithium	598-30-1	0.4	1.25	7.5	40	ppm	Added. TSCA listed, no toxicity data found. MSDS HHR - 3.
2578	Selenious acid	7783-00-8	0.327	0.98	1.6	1.6	mg/m <sup>3</sup>	T-0, T-2, T-3 changed.
2579	Selenium	7782-49-2	0.2	0.6	1	1	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2580	Selenium dioxide	7446-08-4	0.281	0.843	1.4	1.4	mg/m <sup>3</sup>	All Ts changed.
2581	Selenium hexafluoride	7783-79-1	0.122	0.367	0.611	4.9	ppm	T-0, T-1 changed.
2582	Selenium monosulfide	7446-34-6	0.281	0.844	12.5	15	mg/m <sup>3</sup>	T-0, T-1 changed.
2583	Selenium oxychloride	7791-23-3	0.42	1.26	4.41	4.41	mg/m <sup>3</sup>	T-0, T-2, T-3 changed.
2584	Selenium sulfide; (Selenium(IV) disulfide (1:2))	7488-56-4	0.362	1.09	1.81	60	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
2585	Semicarbazide hydrochloride	563-41-7	20	60	100	100	mg/m <sup>3</sup>	
2586	Sephacryl s-200, superfine	65546-95-4	10	30	50	250	mg/m <sup>3</sup>	Added. Not found in databases.
2587	Sephacryl s-300	82785-74-8	10	30	50	250	mg/m <sup>3</sup>	Added. Not found in databases.
2588	Sephadex gel filter 20-801	9041-35-4	10	30	50	250	mg/m <sup>3</sup>	Not found in databases, PNOS option used
2589	Sepharose cl-4b	61970-08-9	10	30	50	250	mg/m <sup>3</sup>	Added. Not found in databases. Chromatography gel.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2590	Silane	7803-62-5	5	15	25	<b><i>4000</i></b>	ppm	See LEL formatting note.
2591	Silica amorphous fumed	112945-52-5	2	6	200	500	mg/m <sup>3</sup>	T-2 changed.
2592	Silica amorphous hydrated	7631-86-9	6	30	50	500	mg/m <sup>3</sup>	SAX name for this CAS RN.
2593	Silica gel	63231-67-4	10	30	50	250	mg/m <sup>3</sup>	PEL = 80% SiO <sub>2</sub> not used; see 7631-86-9, SCI000, and 112926-00-8 (Silica gel)
2594	Silica gel dessicant	1343-98-2	6	30	500	500	mg/m <sup>3</sup>	See 7631-86-9, SCI000, and 112926-00-8 (Silica gel)
2595	Silica gel, amorphous synthetic	112926-00-8	10	30	50	250	mg/m <sup>3</sup>	
2596	Silica, amorphous fume	69012-64-2	2	6	10	50	mg/m <sup>3</sup>	
2597	Silica, crystalline-quartz; (Silicon dioxide)	14808-60-7	0.3	0.3	0.3	50	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
2598	Silicic acid	7699-41-4	10	10	75	400	mg/m <sup>3</sup>	T-2 changed.
2599	Silicic acid, aluminum calcium sodium salt	1344-01-0	10	30	50	250	mg/m <sup>3</sup>	HSDB, TSCA listed, no toxicity data, suspected minor eye irritation ignored. MW is a minimum.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2600	Silicic acid, sodium salt; (Sodium silicate)	1344-09-8	7.5	25	150	500	mg/m <sup>3</sup>	ChemFinder pchem data.
2601	Silicofluoric acid; (Fluorosilicic acid)	16961-83-4	3.16	9.48	15.8	50	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
2602	Silicon	7440-21-3	15	30	250	500	mg/m <sup>3</sup>	T-2 changed.
2603	Silicon carbide	409-21-2	15	30	250	500	mg/m <sup>3</sup>	T-2, T-3 changed.
2604	Silicon nitride	12033-89-5	10	30	50	250	mg/m <sup>3</sup>	TSCA, HC&P listed, no toxicity data..
2605	Silicon tetrafluoride; (Tetrafluorosilane)	7783-61-1	0.805	35	110	110	ppm	All Ts changed.
2606	Silicon(II) oxide; (Silicon oxide)	10097-28-6	10	30	50	250	mg/m <sup>3</sup>	
2607	Siloprene k 1000	63394-02-5	35	100	500	500	mg/m <sup>3</sup>	No pchem data found.
2608	Siloxanes and silicones, -di-Me,-reaction products with silica; (Hydrophobic silicon dioxide, amorphous)	67762-90-7	6	15	125	500	mg/m <sup>3</sup>	SAX has CAS RN = 63148-62-9, teratogen
2609	Siloxanes and silicones; (Silicone fluid, high temp)	63148-58-3	10	10	50	250	mg/m <sup>3</sup>	MW estimated and used toxicity data for Silicone Y-6607 (Siloxanes), 67762-92-9

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2610	Silver	7440-22-4	0.01	0.3	0.5	10	mg/m <sup>3</sup>	
2611	Silver carbonate; (Silver(I) carbonate)	534-16-7	0.0128	0.0383	0.0639	12.8	mg/m <sup>3</sup>	All Ts changed.
2612	Silver chloride	7783-90-6	0.0133	0.0399	0.0664	13.3	mg/m <sup>3</sup>	Solubility 6.9 g/100 mLwater @20C. T-0, T-2, T-3 changed.
2613	Silver cyanide	506-64-9	25.7	25.7	25.7	129	mg/m <sup>3</sup>	All Ts changed.
2614	Silver hydroxide	12673-77-7	0.0116	0.0347	0.06	11.6	mg/m <sup>3</sup>	T-0, T-3 changed.
2615	Silver nitrate	7761-88-8	0.0157	15.7	15.7	15.7	mg/m <sup>3</sup>	All Ts changed.
2616	Silver nitrite; (Silver(I) nitrite)	7783-99-5	0.0143	0.0428	0.0713	14.3	mg/m <sup>3</sup>	All Ts changed.
2617	Silver oxide	20667-12-3	10	30	50	50	mg/m <sup>3</sup>	Insoluble compound.
2618	Soda lime	8006-28-8	5	5	5	25	mg/m <sup>3</sup>	Used CaO limits
2619	Sodium	7440-23-5	0.5	0.5	5	50	mg/m <sup>3</sup>	NaOH limits used

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2620	Sodium acetate	127-09-3	15	40	300	500	mg/m <sup>3</sup>	
2621	Sodium acetate trihydrate; (Acetic acid, sodium salt trihydrate)	6131-90-4	15	40	300	500	mg/m <sup>3</sup>	Monohydrate CAS RN 31304-44-6, SAX SEG650 (LANL pchem data differs)
2622	Sodium aluminate	1302-42-7	2	6	10	50	mg/m <sup>3</sup>	
2623	Sodium aluminate; (Aluminum sodium oxide)	11138-49-1	2	6	10	500	mg/m <sup>3</sup>	
2624	Sodium aluminosilicate	1344-00-9	3.5	10	150	500	mg/m <sup>3</sup>	Rat oral LD50 > 27 g/kg, LC > 140 mg/m <sup>3</sup> not used. SAR
2625	Sodium aluminum hydride	13770-96-2	3	7.5	60	300	mg/m <sup>3</sup>	Added.
2626	Sodium aluminum silicate	73987-94-7	3.5	10	15	500	mg/m <sup>3</sup>	<b>SAR</b>
2627	Sodium antimonate; (Sodium hexahydroxoantimonate)	33908-66-6	0.792	2.37	4	79.2	mg/m <sup>3</sup>	TSCA has CAS RN= 33908-66-6 for Na.Sb.(OH) <sub>6</sub> . T-0, T-1, T-3 changed.
2628	Sodium antimonate; (Antimonic acid, sodium salt)	11112-10-0	1.01	3.04	5.07	101	mg/m <sup>3</sup>	TSCA lists CAS RN = 15432-85-6 for Na.SbO <sub>3</sub>
2629	Sodium antimonite	z-0061	0.874	2.62	4.37	87.4	mg/m <sup>3</sup>	All Ts changed.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2630	Sodium argentate	z-0062	0.0153	0.0459	0.0764	15.3	mg/m <sup>3</sup>	T-1 changed.
2631	Sodium arsenate	7631-89-2	0.0271	7.5	13.5	13.5	mg/m <sup>3</sup>	REL-C ignored. All Ts changed.
2632	Sodium arsenite	7784-46-5	0.0173	0.075	0.6	8.67	mg/m <sup>3</sup>	REL-C ignored. All Ts changed.
2633	Sodium azide	26628-22-8	0.29	0.29	0.29	12.5	mg/m <sup>3</sup>	
2634	Sodium beryllium oxide	z-0063	0.0124	0.0621	5	24.9	mg/m <sup>3</sup>	T-1, T-2 changed.
2635	Sodium bicarbonate	144-55-8	10	30	50	500	mg/m <sup>3</sup>	
2636	Sodium bifluoride; (Sodium hydrogen fluoride)	1333-83-1	4.08	4.08	6	35	mg/m <sup>3</sup>	
2637	Sodium bis(2-methoxyethoxy) aluminum hydride	22722-98-1	15	45	75	350	mg/m <sup>3</sup>	No toxicity data found. T-1 changed.
2638	Sodium bismuthate	12232-99-4	1.5	5	35	150	mg/m <sup>3</sup>	SAR TEELs 1.25, 4, 25, 200 mg/m <sup>3</sup> not used
2639	Sodium bisulfate monohydrate	10034-88-5	0.75	2.5	15	75	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2640	Sodium bisulfate; (Sodium acid sulfate)	7681-38-1	1.25	3.5	25	125	mg/m <sup>3</sup>	
2641	Sodium bisulfite	7631-90-5	5	15	25	500	mg/m <sup>3</sup>	
2642	Sodium borate decahydrate	1303-96-4	2	6	200	500	mg/m <sup>3</sup>	RTECS, HSDB, TSCA, GOEV, HC&P, H&N and SAX used.
2643	Sodium borate; (Disodium tetraborate; Borates, tetrasodium salts)	1330-43-4	2	6	6	500	mg/m <sup>3</sup>	RTECS, HSDB, TSCA, GOEV, HC&P, H&N used, SAX ignored.
2644	Sodium borohydride	16940-66-2	0.075	0.2	1.5	7.5	mg/m <sup>3</sup>	
2645	Sodium bromate	7789-38-0	0.6	1.5	12.5	60	mg/m <sup>3</sup>	
2646	Sodium bromide	7647-15-6	1.5	5	35	500	mg/m <sup>3</sup>	
2647	Sodium butyl (2-ethylhexyl)phosphate	z-0064	0.02	0.06	0.4	2	mg/m <sup>3</sup>	<b>SAR</b>
2648	Sodium butyl butylphosphonate	z-0065	0.02	0.06	0.4	2	mg/m <sup>3</sup>	<b>SAR</b>
2649	Sodium cacodylate; (Sodium dimethylarsinate)	124-65-2	1.07	3.2	40	500	mg/m <sup>3</sup>	T-0, T-1 changed.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2650	Sodium cadminate	z-0066	0.0101	0.0604	0.101	18.1	mg/m <sup>3</sup>	T-3 changed.
2651	Sodium carbonate	497-19-8	10	30	50	500	mg/m <sup>3</sup>	
2652	Sodium carbonate monohydrate	5968-11-6	1.5	5	35	150	mg/m <sup>3</sup>	HSDB data used.
2653	Sodium carboxymethyl cellulose; (Dowex 11)	9004-32-4	0.4	1.25	7.5	500	mg/m <sup>3</sup>	
2654	Sodium chloride	7647-14-5	15	40	300	500	mg/m <sup>3</sup>	
2655	Sodium chlorite	7758-19-2	0.75	2.5	15	75	mg/m <sup>3</sup>	RTECS MF and MW differ from other sources
2656	Sodium chromate decahydrate	13517-17-4	0.0329	0.987	20	98.7	mg/m <sup>3</sup>	New OSHA PEL-TWA, T-0, T-1, T-2 changed.
2657	Sodium chromate tetrahydrate	10034-82-9	0.0291	0.873	15	87.4	mg/m <sup>3</sup>	New OSHA PEL-TWA, all Ts changed.
2658	Sodium chromate(VI); (Disodium chromate)	7775-11-3	0.0156	0.125	0.75	46.7	mg/m <sup>3</sup>	New OSHA PEL-TWA, all Ts changed.
2659	Sodium citrate; (Monosodium citrate)	18996-35-5	10	30	50	500	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2660	Sodium cobaltinitrite	13600-98-1	0.125	0.4	3	15	mg/m <sup>3</sup>	
2661	Sodium cyanide	143-33-9	5	5	5	47.1	mg/m <sup>3</sup>	
2662	Sodium cyclopentadienylide; (Cyclopentadienyl sodium)	4984-82-1	10	30	50	250	mg/m <sup>3</sup>	No toxicity data. Ignites in air.
2663	Sodium deuterioxide	14014-06-3	0.15	0.5	5	50	mg/m <sup>3</sup>	Added. Not in databases, MSDS has no useful data.
2664	Sodium dichromate dihydrate	7789-12-0	0.0143	0.43	0.716	43	mg/m <sup>3</sup>	New OSHA PEL-TWA, all Ts changed.
2665	Sodium dichromate; (Disodium dichromate)	10588-01-9	0.0126	20	37.8	37.8	mg/m <sup>3</sup>	New OSHA PEL-TWA, all Ts changed.
2666	Sodium diethyldithiocarbamate trihydrate	20624-25-3	6	15	125	500	mg/m <sup>3</sup>	
2667	Sodium diethyldithiocarbamate; (Diethyldithiocarbamic acid, sodium salt)	148-18-5	2	6	250	500	mg/m <sup>3</sup>	T-2 changed.
2668	Sodium dihydrogen phosphate; (Sodium phosphate monobasic, monohydrate)	10049-21-5	100	300	500	500	mg/m <sup>3</sup>	HSDB data.
2669	Sodium dithionate dihydrate	7631-94-9	10	30	50	250	mg/m <sup>3</sup>	No toxicity data; error in H&N

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2670	Sodium dodecylbenzenesulfonate; (Dodecyl benzene sodium sulfonate)	25155-30-0	4	12.5	75	200	mg/m <sup>3</sup>	
2671	Sodium ethoxide	141-52-6	1.5	5	35	150		Added. No toxicity data found.
2672	Sodium ferrocyanide	13601-19-9	5.44	16.3	27.2	500	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
2673	Sodium fluoride	7681-49-4	5.53	5.53	5.53	75	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
2674	Sodium formate	141-53-7	40	125	500	500	mg/m <sup>3</sup>	
2675	Sodium gluconate	527-07-1	0.6	2	15	75	mg/m <sup>3</sup>	
2676	Sodium glycinate	6000-44-8	1	3.5	25	125	ppm	
2677	Sodium glycolate; (Sodium hydroxyacetate)	2836-32-0	10	30	200	750	ppm	See LEL formatting note.
2678	Sodium hexamethyldisilazane; (Sodium bis(trimethylsilyl)amide)	1070-89-9	10	30	50	250	mg/m <sup>3</sup>	TSCA listed
2679	Sodium hydride	7646-69-7	10	10	10	10	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2680	Sodium hydrogen lead oxide	z-0067	0.06	0.06	0.06	125	mg/m <sup>3</sup>	<b>SAR</b>
2681	Sodium hydrogen metasilicate	z-0068	4	12.5	75	400	mg/m <sup>3</sup>	<b>SAR</b>
2682	Sodium hydrogen pyrophosphate	z-0069	4	12.5	20	400	mg/m <sup>3</sup>	<b>SAR</b>
2683	Sodium hydrosulfite	7775-14-6	10	30	50	250	mg/m <sup>3</sup>	
2684	<b>Sodium hydroxide</b>	<b>1310-73-2</b>	0.5	0.5	5	50	mg/m <sup>3</sup>	<b>ERPG-1, -2, -3</b>
2685	Sodium hypochlorite	7681-52-9	0.6	2	50	500	mg/m <sup>3</sup>	WEEL added, toxicity data updated. T-0, T-1, T-2 changed.
2686	Sodium hypochlorite pentahydrate	10022-70-5	0.075	0.2	1.5	500	mg/m <sup>3</sup>	
2687	Sodium hypophosphite	7681-53-0	6	20	125	500	mg/m <sup>3</sup>	No pchem data found.
2688	Sodium hypophosphite hydrate	123333-67-5	6	20	125	500	mg/m <sup>3</sup>	Used toxicity data for Na hypophosphite, CAS RN = 7681-53-0
2689	Sodium iodate	7681-55-2	2	6	40	200	mg/m <sup>3</sup>	Deleted iodine concentration limits. All Ts changed.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2690	Sodium iodide	7681-82-5	0.75	2.5	15	500	mg/m <sup>3</sup>	
2691	Sodium isothiocyanate; (Thiocyanic acid, sodium salt)	540-72-7	0.25	0.75	6	100	mg/m <sup>3</sup>	
2692	Sodium lactate; (Lactic acid, monosodium salt)	72-17-3	15	40	300	500	mg/m <sup>3</sup>	Added.
2693	Sodium lanthanate	z-0070	0.4	1.25	2.5	2.5	mg/m <sup>3</sup>	No "lanthanate" listing found SAR
2694	Sodium lauryl sulfate	151-21-3	0.35	1	6	500	mg/m <sup>3</sup>	
2695	Sodium metabisulfite	7681-57-4	5	15	25	100	mg/m <sup>3</sup>	
2696	Sodium metaborate	7775-19-1	6.18	18.5	30.9	500	mg/m <sup>3</sup>	SAX, RTECS, HSDB MF = BHO2.Na, not NaBO2.
2697	Sodium metaphosphate	10361-03-2	3.5	10	75	350	mg/m <sup>3</sup>	
2698	Sodium metasilicate	z-0071	26.1	26.1	26.1	26.1	mg/m <sup>3</sup>	LANL CAS RN not used because MF in SAX and RTECS different (see sodium silicate). HSDB, CHRIS and TSCA MF also differ.
2699	Sodium metasilicate nonahydrate	13517-24-3	61.1	183	306	500	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2700	Sodium metavanadate; (Sodium vanadate)	13718-26-8	0.1	0.35	2	30	mg/m <sup>3</sup>	
2701	Sodium methylate	124-41-4	7.5	25	150	500	mg/m <sup>3</sup>	
2702	Sodium molybdate dihydrate; (Disodium molybdate dihydrate)	10102-40-6	12.6	12.6	200	200	mg/m <sup>3</sup>	T-0, T-1 changed.
2703	Sodium monoxide; (Sodium oxide)	12401-86-4	10	10	10	10	mg/m <sup>3</sup>	
2704	Sodium nickel oxide (Liquid)	37367-09-2	2.33	2.33	2.33	23.3	mg/m <sup>3</sup>	All Ts changed.
2705	Sodium nickelate (Liquids)	z-0073	2.94	2.94	3	29.4	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
2706	Sodium nickelate (Solids)	z-0074	2.94	2.94	3	29.4	mg/m <sup>3</sup>	T-0, T-1 changed.
2707	Sodium nitrate	7631-99-4	0.4	1	7.5	100	mg/m <sup>3</sup>	
2708	Sodium nitrite	7632-00-0	0.04	0.125	1	60	mg/m <sup>3</sup>	
2709	Sodium nitroferricyanide	14402-89-2	0.6	2	12.5	20	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2710	Sodium o-benzyl-p-chlorophenate	3184-65-4	10	30	50	250	mg/m <sup>3</sup>	
2711	Sodium orthovanadate	13721-39-6	0.182	0.25	1.82	35.4	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
2712	Sodium oxalate	62-76-0	10	30	50	50	mg/m <sup>3</sup>	
2713	Sodium pentachlorophenate	131-52-2	1	3.5	24	75	mg/m <sup>3</sup>	T-2 changed.
2714	Sodium perchlorate	7601-89-0	10	30	50	500	mg/m <sup>3</sup>	
2715	Sodium perchlorate monohydrate	7791-07-3	5	15	100	500	mg/m <sup>3</sup>	
2716	Sodium permanganate	10101-50-5	0.517	7.75	12.9	500	mg/m <sup>3</sup>	Added. HC&P data are for the trihydrate.
2717	Sodium peroxide	1313-60-6	10	10	10	10	mg/m <sup>3</sup>	
2718	Sodium perrhenate; (Rhenium(VII) sodium oxide)	13472-33-8	10	30	50	500	mg/m <sup>3</sup>	
2719	Sodium persulfate	7775-27-1	0.1	0.3	20	100	mg/m <sup>3</sup>	T-2 changed.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2720	Sodium pertechnetate	13718-28-0	10	30	50	250	mg/m <sup>3</sup>	Radiation dose will dominate
2721	Sodium phosphate	7632-05-5	0.75	2.5	15	75	mg/m <sup>3</sup>	Mouse LD > 100 mg/kg
2722	Sodium phosphate, dibasic	7558-79-4	60	200	500	500	mg/m <sup>3</sup>	Spelling corrected.
2723	Sodium phosphate, dibasic, dodecahydrate	10039-32-4	1.5	5	35	150	mg/m <sup>3</sup>	
2724	Sodium phosphate, dibasic, heptahydrate	7782-85-6	50	150	500	500	mg/m <sup>3</sup>	
2725	Sodium phosphate, monobasic	7558-80-7	35	100	500	500	mg/m <sup>3</sup>	
2726	Sodium phosphate, tribasic	7601-54-9	1.5	5	500	500	mg/m <sup>3</sup>	WEEL-STEL added, T-0, T-1, T-2 changed.
2727	Sodium phosphate, tribasic, dodecahydrate	10101-89-0	10	30	50	500	mg/m <sup>3</sup>	
2728	Sodium phosphate, tribasic; (Sodium hexametaphosphate; Calgon)	10124-56-8	25	75	500	500	mg/m <sup>3</sup>	
2729	Sodium phosphate, tribasic; (Sodium trimetaphosphate)	7785-84-4	15	40	300	500	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2730	Sodium polyphosphate	68915-31-1	12.5	40	250	500	mg/m <sup>3</sup>	
2731	Sodium polytungstate	12141-67-2	6.77	13.5	35	150	mg/m <sup>3</sup>	TSCA listed, no toxicity or pchem data found. T-0, T-1 changed.
2732	Sodium potassium tartrate tetrahydrate	6381-59-5	20	60	400	500	mg/m <sup>3</sup>	HC&N listed under CAS RN 304-59-6, used HSDB toxicity data
2733	Sodium potassium tartrate; (Potassium sodium tartrate)	304-59-6	20	60	400	500	mg/m <sup>3</sup>	HSDB toxicity data used. SAX no. added.
2734	Sodium p-tert-amylphenate; (4-(1,1-dimethylpropyl)phenol, sodium salt)	31366-95-7	10	30	50	250	mg/m <sup>3</sup>	
2735	Sodium pyrophosphate decahydrate	13472-36-1	10	30	200	500	mg/m <sup>3</sup>	Corrected name. Used toxicity of disodium pyrophosphate, CAS RN = 7758-16-9
2736	Sodium pyrophosphate, di-	7758-16-9	10	30	200	500	mg/m <sup>3</sup>	T-2 changed.
2737	Sodium pyruvate (pyruvic acid, sodium salt)	113-24-6	10	30	50	250	mg/m <sup>3</sup>	Added. TSCA listed, no toxicity data found.
2738	Sodium salicylate; (Salicylic acid, sodium salt)	54-21-7	40	100	500	500	mg/m <sup>3</sup>	Duplicate deleted.
2739	Sodium selenate; (Disodium selenate)	13410-01-0	0.479	1.44	1.6	1.6	mg/m <sup>3</sup>	T-0, T-1 changed.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2740	Sodium selenite	10102-18-8	0.438	1.31	2.3	3	mg/m <sup>3</sup>	T-0, T-1 changed.
2741	Sodium silicate; (Sodium metasilicate)	6834-92-0	40	100	500	500	mg/m <sup>3</sup>	Human TD lo added.
2742	Sodium stannate	12058-66-1	3.58	10.8	17.9	179	mg/m <sup>3</sup>	As inorganic tin compound Ts = 3.5, 10.5, 30, 150 mg/m <sup>3</sup> . All Ts changed. SAR not used.
2743	Sodium stearate	822-16-2	0.15	0.5	3.5	15	mg/m <sup>3</sup>	
2744	Sodium strontium phosphate	19553-80-1	10	30	50	500	mg/m <sup>3</sup>	<b>SAR</b>
2745	Sodium succinate	150-90-3	5	15	100	600	ppm	See LEL formatting note.
2746	Sodium succinate, hexahydrate	6106-21-4	35	100	500	500	mg/m <sup>3</sup>	Not found in databases. MF and MW from ChemFinder
2747	Sodium sulfate, anhydrous	7757-82-6	10	30	500	500	mg/m <sup>3</sup>	
2748	Sodium sulfhydrate; (Sodium hydrosulfide)	16721-80-5	0.06	0.15	1.25	6	mg/m <sup>3</sup>	
2749	Sodium sulfide	1313-82-2	0.75	2.5	15	75	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2750	Sodium sulfide nonahydrate	1313-84-4	0.2	0.6	4	20	mg/m <sup>3</sup>	HHR = 3 in MSDS.
2751	Sodium sulfite	7757-83-7	10	30	50	100	mg/m <sup>3</sup>	
2752	Sodium tartrate dihydrate	6106-24-7	5	15	100	500	mg/m <sup>3</sup>	Not found in databases. NFPA HHR = 1, MSDS pchem and rat LD50 data.
2753	Sodium tellurate	10101-83-4	0.186	0.559	0.931	150	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
2754	Sodium tellurite	10102-20-2	0.174	0.521	7.5	25	mg/m <sup>3</sup>	T-0, T-1 changed.
2755	Sodium tetrafluoroborate(1-)	13755-29-8	3.61	10.8	18.1	100	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
2756	Sodium tetraphenyl borate	143-66-8	1.25	3.5	25	125	mg/m <sup>3</sup>	
2757	Sodium thiosulfate	7772-98-7	10	30	50	500	mg/m <sup>3</sup>	
2758	Sodium thiosulfate pentahydrate	10102-17-7	10	30	50	500	mg/m <sup>3</sup>	
2759	Sodium titanate	12034-34-3	10	30	50	250	mg/m <sup>3</sup>	Added. TSCA listed, no toxicity or pchem data found.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2760	Sodium tridecylbenzene sulfonate	26248-24-8	2	6	40	200	mg/m <sup>3</sup>	MF and MW differ in databases. No mammalian toxicity data found, HSDB probable human LD 0.5-5.0 g/kg
2761	Sodium triethylborohydride	17979-81-6	22.6	67.7	113	150	mg/m <sup>3</sup>	Added. Not found in databases, MSDS HHR = 3.
2762	Sodium trihydrogen silicate	z-0076	10	30	50	250	mg/m <sup>3</sup>	
2763	Sodium tripolyphosphate	7758-29-4	10	30	50	500	mg/m <sup>3</sup>	
2764	Sodium tungstate	13472-45-2	1	3	7.5	500	mg/m <sup>3</sup>	T-2 changed.
2765	Sodium tungstate dihydrate	10213-10-2	1.79	5.38	15	75	mg/m <sup>3</sup>	SAX No. added. T-0, T-1, T-2 changed.
2766	Sodium uranate; (Sodium diuranate)	66018-57-3	0.0779	0.935	3	15.6	mg/m <sup>3</sup>	Name and CAS RN changed. All Ts changed.
2767	Sodium uranium oxide monohydrate	13721-34-1	0.0685	0.822	2.5	13.7	mg/m <sup>3</sup>	TSCA listed, used HC&P "monohydrate" MW and MF. No toxicity data found. All Ts changed.
2768	Sodium uranyl carbonate	z-0078	0.395	0.948	3	15.8	mg/m <sup>3</sup>	T-1, T-2, T-3 changed.
2769	Sodium zirconate; (Disodium zirconium oxide)	12201-48-8	10.9	21.8	21.8	54.6	mg/m <sup>3</sup>	All Ts changed.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2770	Sodium-Potassium	11135-81-2	0.482	0.482	5	50	mg/m <sup>3</sup>	ERPGs for NaOH used. MW for 78wt.% K and 22 wt.% Na. T-0, T-1 changed.
2771	Solvent naphtha, petroleum, medium aliphatic; (Mineral spirits, naphtha)	64742-88-7	10	30	50	500	mg/m <sup>3</sup>	
2772	Solvent Yellow 3	97-56-3	2	6	40	500	mg/m <sup>3</sup>	
2773	<b>Soman; (3,3-Dimethyl-2-butyl methylphosphonofluoridate, GD)</b>	<b>96-64-0</b>	6E-05	0.0002	0.0022	0.017	ppm	<b>Final AEGL-1, -2, -3.</b>
2774	Sorbitan monolaurate; (D-Glucitol,-1,4-anhydro,-6-dodecanoate-)	5959-89-7	10	30	50	250	mg/m <sup>3</sup>	Added. TSCA, H&N listed. No toxicity or pchem data found.
2775	Sorbitan monostearate polyoxyethylene; (Ethoxylated sorbitan monostearate)	9005-67-8	0.75	2	15	500	mg/m <sup>3</sup>	No pchem data found.
2776	Sorbitan trioleate	26266-58-0	15	50	350	500	mg/m <sup>3</sup>	Added. No pchem data found.
2777	Sorbitan, monolaurate	1338-39-2	350	500	500	500	mg/m <sup>3</sup>	No pchem data found.
2778	Sorbitan, monooleate	1338-43-8	250	500	500	500	mg/m <sup>3</sup>	
2779	Sorbitan, monooleate polyoxyethylene; (Polyethylene sorbitan monooleate; Tween 80)	9005-65-6	0.75	2.5	15	500	mg/m <sup>3</sup>	MF and MW unknown.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2780	Sorbitan, monostearate	1338-41-6	400	500	500	500	mg/m <sup>3</sup>	
2781	Sorbitol, d-; (d-Glucitol)	50-70-4	40	125	500	500	mg/m <sup>3</sup>	Pchem data vary among sources
2782	Spiro(isobenzofuran-1(3H),9'-(9H)xanthen)-3-one, 3',6'-dihydroxy-; (Fluorescein)	2321-07-5	0.4	1.25	7.5	250	mg/m <sup>3</sup>	Name corrected. Density not available, assumed to be 1.0.
2783	Squalene; (2,6,10,15,19,23-Hexamethyl-2,6,10,14,18,22-tetracosahexene, (all-E)-)	111-02-4	20	60	400	500	mg/m <sup>3</sup>	Duplicate deleted. MSDS pchem data.
2784	Stannic chloride; (Tin(IV) chloride; Tin(IV) tetrachloride)	7646-78-8	4.39	4.39	5	219	mg/m <sup>3</sup>	T-0, T-1, T-3 changed.
2785	Stannous chloride; (Tin(II) chloride (1:2))	7772-99-8	3.19	9.58	16	160	mg/m <sup>3</sup>	All Ts changed.
2786	Stannous octoate	301-10-0	0.341	1.023	15	85.3	mg/m <sup>3</sup>	Added. TSCA listed, MSDS data.
2787	Starch dust	9005-25-8	15	30	500	500	mg/m <sup>3</sup>	Synonym deleted, conc. dep. changed from Y to N. T-2 changed.
2788	<b>Stibine</b>	<b>7803-52-3</b>	0.1	0.1	0.5	1.5	ppm	<b>ERPG-2, -3.</b>
2789	Stilbene	588-59-0	5	15	100	500	mg/m <sup>3</sup>	Name corrected. PNOS deleted, T-0, T-1, T-2 changed.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2790	Stilbene 3; (Stilbene 420; Tinopal CBS, Disodium 4,4'-bis(2-sulfostyryl)biphenyl)	27344-41-8	0.25	0.75	6	500	mg/m <sup>3</sup>	Synonym added. Toxicity data added, conc. dep changed from Y to N,
2791	Stoddard solvent; (Mineral spirits, 85% nonane and 15% trimethyl benzene)	8052-41-3	500	500	500	500	mg/m <sup>3</sup>	See LEL formatting note.
2792	Strontium	7440-24-6	10	30	50	250	mg/m <sup>3</sup>	
2793	Strontium carbonate	1633-05-2	20	20	20	20	mg/m <sup>3</sup>	HSDB and TSCA MF = C-H2-O3-Sr, but HSDB MW =147.63 SAR
2794	Strontium chloride	10476-85-4	7.5	20	150	500	mg/m <sup>3</sup>	"Heptahydrate removed from name, MW and MF corrected.
2795	Strontium hydroxide	18480-07-4	0.75	0.75	20	75	mg/m <sup>3</sup>	RTECS has some toxicity data. SAR
2796	Strontium nitrate	10042-76-9	10	30	250	500	mg/m <sup>3</sup>	T-2 changed.
2797	Strontium nitrite; (Nitrous acid, strontium salt)	13470-06-9	0.04	0.1	0.75	75	mg/m <sup>3</sup>	<b>SAR</b>
2798	Strontium oxalate	814-95-9	7.5	25	60	75	mg/m <sup>3</sup>	TSCA MF = C2-H2-O4.Sr No toxicity data found SAR
2799	Strontium phosphate; (Strontium orthophosphate)	14414-90-5	10	30	500	500	mg/m <sup>3</sup>	RTECS MF = H3-O4-P.xSr, MW = 448.48, x = 4. HC&P CAS RN = 7446-28-8, MW = 452.80. SAR

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2800	Strontium sulfate	7759-02-6	10	30	50	250	mg/m <sup>3</sup>	
2801	Strychnine	57-24-9	0.15	0.3	0.3	3	mg/m <sup>3</sup>	
2802	Strychnine sulfate (2:1)	60-41-3	1	3	5	30	mg/m <sup>3</sup>	
2803	<b>Styrene</b>	<b>100-42-5</b>	20	20	130	<b><i>1100</i></b>	ppm	<b>Interim AEGL-1, -2, -3. See LEL formatting note.</b>
2804	Styrene oxide; (1,2-Epoxyethylbenzene)	96-09-3	4	12.5	50	50	ppm	
2805	Styrene-allyl alcohol copolymer	25119-62-4	10.00	30.00	50	250	mg/m <sup>3</sup>	TSCA listed, no toxicity or pchem data found. No MSDS, assumed solid.
2806	Styrenesulfonate), Poly(Sodium 4-	25704-18-1	150.00	500.00	500	500	mg/m <sup>3</sup>	Added. Rat oral LD50 > 8 g/kg
2807	Succinic acid	110-15-6	7.5	25	200	500	mg/m <sup>3</sup>	
2808	Succinic anhydride	108-30-5	0.75	2	15	500	mg/m <sup>3</sup>	
2809	Sucrose	57-50-1	15	30	50	500	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2810	Sucrose, diacetate hexaisobutyrate; (Sucrose acetate isobutyrate; SAIB)	126-13-6	12.5	40	300	500	mg/m <sup>3</sup>	
2811	Sulfamic acid	5329-14-6	12.5	40	250	500	mg/m <sup>3</sup>	
2812	Sulfanilamide	63-74-1	1	3	20	500	mg/m <sup>3</sup>	
2813	Sulfanilic acid	121-57-3	50	150	500	500	mg/m <sup>3</sup>	
2814	Sulfonic acids, petroleum; (Petrolatum acid sulfonate)	61789-85-3	10	30	50	250	mg/m <sup>3</sup>	
2815	Sulfonylbis-ethanol, 2,2'-	2580-77-0	1.5	5	35	150	mg/m <sup>3</sup>	Name corrected. TSCA, H&N listed, pchem data ex MSDS, no toxicity data.
2816	Sulfosalicylic acid	97-05-2	10	30	200	500	mg/m <sup>3</sup>	
2817	Sulfosalicylic acid, dihydrate, crystal	5965-83-3	7.5	20	150	500	mg/m <sup>3</sup>	Not found in databases. MSDS MP and rat LD50.
2818	Sulfotep; (TEDP)	3689-24-5	0.2	0.5	3.5	10	mg/m <sup>3</sup>	T-1 changed.
2819	Sulfur	7704-34-9	0.125	0.4	2.5	12.5	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2820	<b>Sulfur dioxide</b>	<b>7446-09-5</b>	0.2	0.2	0.75	30	ppm	<b>Interim AEGL-1, -2, -3.</b>
2821	Sulfur hexafluoride	2551-62-4	1000	3000	5000	5000	ppm	
2822	<b>Sulfur monochloride</b>	<b>10025-67-9</b>	0.53	0.53	6.4	15	ppm	<b>Interim AEGL-1, -2, -3.</b>
2823	Sulfur pentafluoride	5714-22-7	0.01	0.01	0.01	1	ppm	
2824	Sulfur tetrafluoride	7783-60-0	0.1	0.1	2.08	2.08	ppm	
2825	<b>Sulfur trioxide</b>	<b>7446-11-9</b>	0.06	0.2	8.7	160	mg/m <sup>3</sup>	<b>Interim AEGL-1, -2, -3.</b>
2826	<b>Sulfuric acid</b>	<b>7664-93-9</b>	0.2	0.2	8.7	160	mg/m <sup>3</sup>	<b>Interim AEGL-1, -2, -3.</b>
2827	Sulfuric Acid D2; (Deuteriosulfuric acid)	13813-19-9	1	1	3	15	mg/m <sup>3</sup>	Added. TSCA listed, no toxicity data found, MBDS HHR = 3
2828	Sulfurous acid	7782-99-2	0.0125	0.04	0.3	1.5	mg/m <sup>3</sup>	Exists only in solution
2829	Sulfuryl chloride	7791-25-5	0.4	1.25	7.5	15	ppm	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2830	Sulfuryl fluoride	2699-79-8	5	10	200	200	ppm	ERPGs in process.
2831	Talc	14807-96-6	2	2	10	500	mg/m <sup>3</sup>	
2832	Tall oil (alkyd resin)	68333-62-0	10	30	50	250	mg/m <sup>3</sup>	
2833	Tantalum	7440-25-7	5	10	500	500	mg/m <sup>3</sup>	T-2 changed.
2834	Tantalum carbide	12070-06-3	5.33	10.7	500	500	mg/m <sup>3</sup>	TSCA and HSDB listed, no specific toxicity data.
2835	Tantalum(V) ethoxide	6074-84-6	10	30	50	250	mg/m <sup>3</sup>	TSCA, HC&P listed, no toxicity data, assumed nonvolatile..
2836	Tantalum(V) fluoride	7783-71-3	7.26	21.8	36.3	100	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
2837	Tantalum(V) oxide	1314-61-0	6.11	12.2	500	500	mg/m <sup>3</sup>	T-1, T-2 changed.
2838	Tartaric acid	87-69-4	4	12.5	75	400	mg/m <sup>3</sup>	
2839	Tartaric acid, monopotassium salt	868-14-4	150	500	500	500	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2840	Tartaric acid, monosodium salt	526-94-3	15	50	400	500	mg/m <sup>3</sup>	No pchem data found.
2841	Technetium(IV) oxide	12036-16-7	10	30	50	250	mg/m <sup>3</sup>	Radiation dose will dominate
2842	Tellurium	13494-80-9	0.1	0.3	20	25	mg/m <sup>3</sup>	
2843	Tellurium chloride	10026-07-0	0.211	0.633	15	52.8	mg/m <sup>3</sup>	All Ts changed.
2844	Tellurium hexafluoride	7783-80-4	0.0379	0.101	0.101	1.89	ppm	T-0, T-3 changed.
2845	Tellurium oxide; (Tellurium dioxide)	7446-07-3	0.125	0.375	5	31.3	mg/m <sup>3</sup>	T-1, T-2, T-3 changed.
2846	Tellurous acid	10049-23-7	0.139	0.418	0.696	34.8	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
2847	Terbium	7440-27-9	1.5	5	35	150	mg/m <sup>3</sup>	Added. TSCA listed, no toxicity data found. SRS HHR = 3.
2848	Terbium oxide	12036-41-8	10	30	50	250	mg/m <sup>3</sup>	No toxicity data, PNOS used, no stable isotopes.
2849	Terbium(III,IV) oxide	12037-01-3	10	30	50	250	mg/m <sup>3</sup>	TSCA listed, no toxicity or pchem data found. MSDS S, MP, HHR =1.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2850	Terbufos	13071-79-9	0.2	0.6	1	1	mg/m <sup>3</sup>	
2851	Terephthalic acid	100-21-0	10	125	500	500	mg/m <sup>3</sup>	T-1, T-2 changed.
2852	Terephthaloyl chloride	100-20-9	0.75	2.5	20	500	mg/m <sup>3</sup>	
2853	Terphenyl; p-	92-94-4	5	5	9	500	mg/m <sup>3</sup>	
2854	Terphenyls; (Diphenylbenzene)	26140-60-3	5	5	9	500	mg/m <sup>3</sup>	
2855	Tert butyllithium	594-19-4	1.5	5	35	150	mg/m <sup>3</sup>	Added, Unstable, stored in pentane or similar. No toxicity data found.
2856	Tert-butyl alcohol; (tert-Butanol)	75-65-0	100	150	1600	1600	ppm	See LEL formatting note.
2857	Tert-butyl benzoic acid, P-	98-73-7	2	6	50	200	mg/m <sup>3</sup>	T-2 changed.
2858	Tert-butylphenol, P-; (Tert-Butylphenol, 4-)	98-54-4	0.5	0.5	0.75	500	mg/m <sup>3</sup>	
2859	Tert-butylpyridine, 4-	3978-81-2	10	30	50	250	mg/m <sup>3</sup>	Added. No toxicity data found. HC&P, ChemFinder listed.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2860	Tetraamminepalladium(II) nitrate	13601-08-6	1.5	5	35	150	mg/m <sup>3</sup>	No toxicity information. LD50 based on HR
2861	Tetrabromoethane, 1,1,2,2-; (Acetylene tetrabromide)	79-27-6	0.1	6	8	8	ppm	Revised TLV-TWA, ignored PEL=TWA, T-0, T-1, T-2 changed.
2862	Tetrabutyl ammonium phosphate	5574-97-0a	10	30	50	250	mg/m <sup>3</sup>	Not found in databases. Duplicate with "dihydrogen" deleted.
2863	Tetrabutyl titanate; (Butyl titanate)	5593-70-4	0.75	2.5	20	100	ppm	See LEL formatting note.
2864	Tetrabutylammonium hydroxide	2052-49-5	0.06	0.15	1.25	6	mg/m <sup>3</sup>	
2865	Tetrabutylammonium nitrate	1941-27-1	0.075	0.25	1.5	7.5	mg/m <sup>3</sup>	
2866	Tetrachloro-1,2-difluoroethane, 1,1,2,2-	76-12-0	500	1500	2000	2000	ppm	Added.
2867	Tetrachlorobenzene, 1,2,3,4-	634-66-2	12.5	35	250	500	mg/m <sup>3</sup>	
2868	Tetrachlorobenzene, 1,2,4,5-	95-94-3	10	30	50	500	mg/m <sup>3</sup>	
2869	Tetrachlorodibenzofuran, 2,3,7,8-	51207-31-9	0.0006	0.002	0.002	0.002	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2870	Tetrachlorodibenzo-p-dioxin, 1,2,3,8-	53555-02-5	0.004	0.0125	0.075	0.4	mg/m <sup>3</sup>	
2871	Tetrachloroethane (mixed isomers)	25322-20-7	1.5	5	35	400	ppm	See LEL formatting note.
2872	Tetrachloroethane, 1,1,1,2-	630-20-6	3	7.5	60	200	ppm	See LEL formatting note.
2873	Tetrachloroethane, 1,1,2,2-	79-34-5	5	5	30	100	ppm	T-0, T-1, T-2 changed.
2874	Tetrachlorohexafluorobutane, 2,2,3,3-; (FLON; CFC316)	375-34-8	0.2	0.6	4	20	ppm	
2875	<b>Tetrachlorosilane; (Silicon chloride)</b>	<b>10026-04-7</b>	0.25	0.75	5	37	ppm	<b>ERPG-1, -2, -3</b>
2876	Tetracosafuorotetradecahydro-phenanthrene; (Perfluorophenanthrene)	306-91-2	3.42	10.3	17.1	75	mg/m <sup>3</sup>	No toxicity data found. All Ts changed.
2877	Tetracyanoquinodimethane; (Ultima Gold AB)	1518-16-7	0.4	1.25	10	50	mg/m <sup>3</sup>	
2878	Tetracycline hydrochloride	64-75-5	0.75	2.5	15	500	mg/m <sup>3</sup>	
2879	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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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2880	Tetradecane, N-	629-59-4	0.125	0.4	2.5	500	mg/m <sup>3</sup>	Added. CAS RN corrected.
2881	Tetradecane; (N-tetradecane)	629-59-4	0.04	0.125	1	<b><i>1250</i></b>	ppm	Duplicate deleted. See LEL formatting note.
2882	Tetradecanoic acid; (Myristic acid)	544-63-8	0.35	1	7.5	35	mg/m <sup>3</sup>	
2883	Tetradecyltrimethylammonium bromide	1119-97-7	15	50	350	500	mg/m <sup>3</sup>	
2884	Tetraethyl lead	78-00-2	0.117	0.468	0.781	62.4	mg/m <sup>3</sup>	All Ts changed. See LEL formatting note.
2885	<b>Tetraethyl orthosilicate; (Ethyl silicate; Tetraethoxysilane)</b>	<b>78-10-4</b>	25	25	100	300	ppm	<b>ERPG-1, -2, -3. See LEL formatting note.</b>
2886	Tetraethyl pyrophosphate; (TEPP)	107-49-3	0.05	0.15	1	5	mg/m <sup>3</sup>	
2887	Tetraethylammonium chloride	56-34-8	0.25	0.75	6	500	mg/m <sup>3</sup>	
2888	Tetraethylene Glycol	112-60-7	125	350	500	500	mg/m <sup>3</sup>	
2889	Tetraethylene glycol diacrylate	17831-71-9	1	3.5	25	350	mg/m <sup>3</sup>	Added. ChemFinder states "pale yellow liquid", but gives MP = 112 C, insoluble in H <sub>2</sub> O.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2890	Tetraethylenepentamine	112-57-2	5	15	350	500	mg/m <sup>3</sup>	WEEL added, toxicity data corrected. All Ts changed. See LEL formatting note.
2891	Tetraethyltin; (Tetraethylstannane)	597-64-8	0.198	0.396	7	49.5	mg/m <sup>3</sup>	
2892	<b>Tetrafluoroethane, 1,1,1,2-; (HFC 134a)</b>	<b>811-97-2</b>	1000	8000	13000	27000	ppm	<b>Final AEGLs -1,-2,-3.</b>
2893	Tetrafluoroethane, 1,1,2,2- (HFC 134)	359-35-3	0.805	2.41	4.02	80.5	ppm	Added.
2894	<b>Tetrafluoroethylene</b>	<b>116-14-3</b>	2	200	1000	<b>10000</b>	ppm	<b>ERPG-1, -2, -3 See LEL formatting note.</b>
2895	Tetrafluoroethylene, polymer; (Polytetrafluoroethylene; Teflon)	9002-84-0	3.5	10	60	350	mg/m <sup>3</sup>	Duplicate deleted.
2896	Tetrafluorohydrazine	10036-47-2	0.805	2.5	15	110	ppm	All Ts changed.
2897	Tetrahydro-2,5-dimethyl furan	1003-38-9	15	50	350	500	mg/m <sup>3</sup>	Used Tetrahydrodimethylfuran CAS RN 1320-94-1
2898	<b>Tetrahydrofuran</b>	<b>109-99-9</b>	100	100	500	<b>5000</b>	ppm	<b>ERPG-1, -2, -3. See LEL formatting note.</b>
2899	Tetrahydrofuran-d8	1693-74-9	100	100	500	5000	ppm	Added. Not found in databases. ChemFinder MW, MF and pchem data.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2900	Tetrahydronaphthalene, 1,2,3,4- (tetralin)	119-64-2	0.2	0.6	5	20	ppm	Added. See LEL formatting note.
2901	Tetrahydropyridine, 1,2,3,6-	694-05-3	2.94	8.83	15	75	ppm	HC&P, H&N listed, no toxicity data
2902	Tetramethoxypropane, 1,1,3,3-: (Malonaldehyde bis(dimethyl acetal))	102-52-3	7.5	25	150	500	mg/m <sup>3</sup>	Added. TSCA and HC&P name inserted. No toxicity data found, assume HHR = 2..
2903	<b>Tetramethoxysilane; (Methyl silicate)</b>	<b>681-84-5</b>	1	1.5	10	20	ppm	<b>ERPG-2, -3.</b>
2904	Tetramethyl ammonium, tetrahydroborate(1-)	16883-45-7	0.3	1	6	35	mg/m <sup>3</sup>	
2905	Tetramethyl ethylene diamine	110-18-9	10	30	125	125	ppm	
2906	Tetramethyl lead	75-74-1	0.0968	0.581	4	51.6	mg/m <sup>3</sup>	T-0, T-1, T-3 changed. See LEL formatting note.
2907	Tetramethyl-1,3-butanediamine, n,n,n',n'-; (Tetramethyl butanediamine)	97-84-7	2	6	40	200	mg/m <sup>3</sup>	
2908	Tetramethyl-3,5-heptanedione, 2,2,6,6-; (Dipivaloylmethane)	1118-71-4	10	30	50	250	mg/m <sup>3</sup>	Added. TSCA listed, no toxicity data found.
2909	Tetramethyl-5-decyne-4,7-diol, 2,4,7,9-	126-86-3	10	30	50	250	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2910	Tetramethylammonium chloride	75-57-0	0.2	0.6	4	20	mg/m <sup>3</sup>	Name changed from "trimethylammonium chloride".
2911	Tetramethylammonium hydroxide	75-59-2	0.06	0.15	1.25	6	mg/m <sup>3</sup>	See LEL formatting note.
2912	Tetramethylammonium hydroxide pentahydrate	10424-65-4	0.3	0.75	6	6	mg/m <sup>3</sup>	Used toxicity data for Tetramethylammonium hydroxide, 75-59-2
2913	Tetramethylammonium silicate	53116-81-7	10	30	50	250	mg/m <sup>3</sup>	Added. Not found in databases. MF, Mw and SG ex MSDS.
2914	Tetramethylbenzene, 1,2,3,5-	527-53-7	0.15	0.5	3.5	500	mg/m <sup>3</sup>	Added.
2915	Tetramethylbenzene, 1,2,4,5-	95-93-2	30	100	500	500	mg/m <sup>3</sup>	
2916	Tetramethylbenzidine, 3,3',5,5'-	54827-17-7	0.5	1.5	10	60	mg/m <sup>3</sup>	Added.
2917	Tetramethylene sulfone; (Sulfolane; Tetrahydrothiophene-1,1-dioxide)	126-33-0	125	200	200	200	mg/m <sup>3</sup>	Added. Rat LC lo > 250 mg/m <sup>3</sup> .
2918	Tetramethylsilane	75-76-3	5	15	25	125	ppm	
2919	Tetrammonium fluoride trihydrate, (tetrabutylammonium fluoroborate)	429-41-4	34.4	103	172	500	mg/m <sup>3</sup>	Added. TSCA listed, no toxicity data, HHR = 3 in MSDS.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2920	<b>Tetranitromethane</b>	<b>509-14-8</b>	0.52	0.52	0.52	1.7	ppm	<b>Final AEGL -2, -3.</b>
2921	Tetraoxadodecane, 2,5,8,11-	112-49-2	1	3	20	100	ppm	
2922	Tetraoxatetracosan-1-ol, 3,6,9,12-; ((Laurel alcohol tri(oxyethylene) ethanol; BRIJ 30)	5274-68-0	10	30	50	250	mg/m <sup>3</sup>	No toxicity data found
2923	Tetraphenylarsonium chloride; (Tetraphenylarsenium chloride)	507-28-8	2.79	8.38	14	25	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
2924	Tetrapotassium ethylenediaminetetraacetate; (EDTA tetrapotassium salt)	5964-35-2	4	15	75	400	mg/m <sup>3</sup>	EDTA tetrapotassium salt, MW corrected to match MF. No toxicity data SAR
2925	Tetrapropoxysilane	682-01-9	7.5	25	150	500	mg/m <sup>3</sup>	Added. Tsca listed, no toxicity data found. MSDS pchem data, SRS HHR = 2. BP = 226 C in HC&P.
2926	Tetrapropylammonium hydroxide	4499-86-9	0.15	0.5	3.5	15	mg/m <sup>3</sup>	
2927	Tetrapropylorthotitanate	3087-37-4	10	30	50	250	mg/m <sup>3</sup>	TSCA listed, no toxicity data. MSDS not helpful, assumed nonvolatile liquid.
2928	Tetrasodium pyrophosphate	7722-88-5	5	15	25	500	mg/m <sup>3</sup>	
2929	Tetrazole, 1h-	288-94-8	10	30	50	150	mg/m <sup>3</sup>	Added.

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2930	Thallium	7440-28-0	0.1	0.3	2	15	mg/m <sup>3</sup>	
2931	Thallium chloride; (Thallium(I) chloride)	7791-12-0	0.4	1.25	2	10	mg/m <sup>3</sup>	
2932	Thallium hydroxide	12026-06-1	0.108	0.325	0.542	16.2	mg/m <sup>3</sup>	All Ts changed.
2933	Thallium nitrate; (Thallium(I) nitrate)	10102-45-1	0.13	0.391	19.6	19.6	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
2934	Thallium nitrite	13826-63-6	0.123	0.368	0.613	18.4	mg/m <sup>3</sup>	T-1, T-2, T-3 changed.
2935	Thallium oxide	1314-12-1	0.104	0.312	0.52	15	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
2936	Thallium sulfate; (Sulfuric acid, dithallium(1+) salt)	10031-59-1	0.107	0.32	2	16	mg/m <sup>3</sup>	. RTECS & HSDB MW = 1528.67. T-0, T-1, T-3 changed.
2937	Thallium(I) acetate; (Acetic acid, thallium(1+) salt)	563-68-8	0.129	0.387	2.5	19.3	mg/m <sup>3</sup>	All Ts changed.
2938	Thallium(I) carbonate (2:1)	6533-73-9	0.4	1.25	2	10	mg/m <sup>3</sup>	
2939	Thallium(I) sulfate; (Sulfuric acid, dithallium(1+) salt)	7446-18-6	0.0002	0.0006	0.004	0.006	mg/m <sup>3</sup>	

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2940	Thallium(III) oxide	1314-32-5	2	2	2	20	mg/m <sup>3</sup>	
2941	Thallium(III) perchlorate hexahydrate	15596-83-5	0.299	0.897	7.5	44.8	mg/m <sup>3</sup>	Used Thallium soluble compound limits, assumed to be "hexahydrate". T-2, T-3 changed.
2942	Thallos malonate	2757-18-8	0.125	0.375	2	18.7	mg/m <sup>3</sup>	T-1, T-3 changed.
2943	Thenoyltrifluoroacetone	326-91-0	1.25	3.5	25	125	mg/m <sup>3</sup>	
2944	Thioacetamide	62-55-5	10	30	50	125	mg/m <sup>3</sup>	
2945	Thioacetic acid	507-09-5	0.006	0.02	0.125	10	ppm	Added.
2946	Thiobis(4-chloro-6-methyl)phenol, 2,2'-	4418-66-0	0.25	0.75	1.3	1.3	mg/m <sup>3</sup>	Name corrected.
2947	Thiocarbazine; (Thiocarbohydrazide)	2231-57-4	20	60	100	100	mg/m <sup>3</sup>	
2948	Thiocresol, p-; (p-Toluenethiol)	106-45-6	0.75	2.5	15	75	mg/m <sup>3</sup>	Added.
2949	Thiocyanic acid, compound with guanidine (1:1); (Guanidene thiocyanate salt)	593-84-0	1.25	3.5	25	125	mg/m <sup>3</sup>	Name changed.

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2950	Thiodiglycol	111-48-8	25	75	500	500	mg/m <sup>3</sup>	
2951	Thiofanox; (Dacamox)	39196-18-4	8.5	8.5	8.5	30	mg/m <sup>3</sup>	
2952	Thionazin; (Ethyl pyrazinyl phosphorothioate)	297-97-2	0.6	2	3.5	3.5	mg/m <sup>3</sup>	
2953	<b>Thionyl chloride</b>	<b>7719-09-7</b>	0.2	0.2	2	10	ppm	<b>ERPG-1, -2, -3</b>
2954	Thiophosphoryl chloride	3982-91-0	1.25	4	25	60	mg/m <sup>3</sup>	Added.
2955	Thiosemicarbazide	79-19-6	0.075	0.2	1.5	4	mg/m <sup>3</sup>	
2956	Thiourea	62-56-6	10	10	25	125	mg/m <sup>3</sup>	
2957	Thiram; (Tetramethylthioperoxydicarbonic diamide)	137-26-8	5	5	5	100	mg/m <sup>3</sup>	
2958	Thorium	7440-29-1	0.2	0.6	4	20	mg/m <sup>3</sup>	Human TClo found, all Ts change.
2959	Thorium hydroxide	13825-36-0	0.75	0.75	2.5	75	mg/m <sup>3</sup>	<b>SAR. NLM has CAS RN 12688-06-1, but no toxicity data found.</b>

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2960	Thorium nitrite	z-0079	0.05	0.125	0.75	75	mg/m <sup>3</sup>	<b>SAR</b>
2961	Thorium oxalate	2040-52-0	42.1	126	210	500	mg/m <sup>3</sup>	TSCA listed, MF, MP ex Hawley. Ts based on Derived Response Level (DRL) for Th, converted from uCi/cm <sup>3</sup> to mg/m <sup>3</sup> . T-0, T-2 changed.
2962	Thorium oxide; (Thorium dioxide)	1314-20-1	25	75	500	500	mg/m <sup>3</sup>	Rat it LD50 > 1140 mg/kg
2963	Thorium perchlorate	16045-17-3	31.4	94.3	157	500	mg/m <sup>3</sup>	Ts based on Derived Response Level (DRL) for Th, converted from uCi/cm <sup>3</sup> to mg/m <sup>3</sup> . T-0, T-1, T-2 changed.
2964	Thorium(IV) nitrate	13823-29-5	0.75	2	15	25	mg/m <sup>3</sup>	
2965	Thulium	7440-30-4	10	30	50	250	mg/m <sup>3</sup>	Added. SAX has no CAS RN, no toxicity data found, but lanthanides have moderate toxicu=ity.
2966	Thulium chloride	13537-18-3	15	50	350	500	mg/m <sup>3</sup>	"Heptahydrate" removed from name.
2967	Thulium oxide	12036-44-1	11.4	34.3	57.1	250	mg/m <sup>3</sup>	No toxicity data found, PNOS used, no stable isotopes. T-0, T-1, T-2 changed.
2968	Thymol blue; (6,6(3H-2,1-benzoxathiol-3-ylidene)dithymol,S,S-dioxide)	76-61-9	10	30	50	250	mg/m <sup>3</sup>	Name corrected. No toxicity data found.
2969	Thyodene; (Amylodextrin)	9005-84-9	10	30	50	250	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2970	Tin	7440-31-5	2	6	100	100	mg/m <sup>3</sup>	
2971	Tin fluoroborate	13814-97-6	4.93	14.8	25	246	mg/m <sup>3</sup>	Added. TSCA listed, no pchem data found.
2972	Tin hydroxide	12026-24-3	2.57	7.72	12.9	129	mg/m <sup>3</sup>	All Ts changed.
2973	Tin nitrate	41480-79-9	4.09	12.300	20.4	204	mg/m <sup>3</sup>	T-0 changed.
2974	Tin nitrite	z-0080	3.55	10.7	17.8	178	mg/m <sup>3</sup>	T-1, T-2, T-3 changed.
2975	Tin(II) chloride dihydrate; (Stannous chloride dihydrate)	10025-69-1	3.8	11.400	20	190	mg/m <sup>3</sup>	All Ts changed.
2976	Tin(II) oxide	1332-29-2	2.54	7.62	12.7	127	mg/m <sup>3</sup>	
2977	Tin(II) sulfate; (Stannous sulfate)	7488-55-3	3.62	10.9	18.1	500	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
2978	Tin(IV) isopropoxide	1184-61-8	0.1	0.2	5	25	mg/m <sup>3</sup>	Not found in databases. T-2 changed.
2979	Tin(IV) oxide; (Stannic oxide)	18282-10-5	2.54	7.62	12.7	127	mg/m <sup>3</sup>	Rat oral LD50 > 20 g/kg

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2980	Titanium	7440-32-6	10	30	50	50	mg/m <sup>3</sup>	T-3 changed.
2981	Titanium aluminide	39410-63-4	10	30	50	250	mg/m <sup>3</sup>	TSCA lists CAS RN = 12004-78-3
2982	Titanium boride	12045-63-5	10	30	50	250	mg/m <sup>3</sup>	No toxicity data found
2983	Titanium carbide	12070-08-5	12.5	37.5	62.6	300	mg/m <sup>3</sup>	No toxicity data found. T-1, T-2 changed.
2984	Titanium chloride	7705-07-9	0.5	1.5	10	50	mg/m <sup>3</sup>	
2985	Titanium hydride	7704-98-5	1.5	5	35	150	mg/m <sup>3</sup>	
2986	Titanium oxide; (Titanium dioxide)	13463-67-7	15	15	15	500	mg/m <sup>3</sup>	
2987	<b>Titanium tetrachloride</b>	<b>7550-45-0</b>	0.0645	0.6449	1	5.7	ppm	<b>Interim AEGL-2, -3; ERPG-1, -2, -3.</b>
2988	Titanium(II) oxide	12137-20-1	10	30	50	250	mg/m <sup>3</sup>	
2989	Titanium(III) fluoride	13470-08-1	4.6	12.5	75	460	mg/m <sup>3</sup>	CAS RN changed from 7783-63-3, all Ts changed.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
2990	Titanium-based alloy; (Titanium compounds)	z-0081	10	30	50	250	mg/m <sup>3</sup>	
2991	<b>Toluene</b>	<b>108-88-3</b>	200	200	<i>1200</i>	<i>4500</i>	ppm	<b>Interim AEGL-1, -2, -3. See LEL formatting note.</b>
2992	Toluene d8	2037-26-5	50	200	510	2900	ppm	Added. Not found in databases, pchem data ex ChemFinder.
2993	Toluene-1,3-diisocyanate	26471-62-5	0.25	0.75	1.5	1.5	ppm	See LEL formatting note.
2994	<b>Toluene-2,4-diisocyanate; (TDI)</b>	<b>584-84-9</b>	0.005	0.02	0.083	0.51	ppm	<b>Final AEGL-1, -2, -3 See LEL formatting note.</b>
2995	Toluene-2,6-diamine; (2-Methyl-1,3-benzenediamine)	823-40-5	1.5	4	30	150	mg/m <sup>3</sup>	Synonym corrected. LD50 estimated
2996	<b>Toluene-2,6-diisocyanate</b>	<b>91-08-7</b>	0.005	0.02	0.083	0.51	ppm	<b>Final AEGL-1, -2, -3.</b>
2997	Toluenediamine, 2,4-; (2,4-Diaminotoluene)	95-80-7	0.025	7.5	60	250	mg/m <sup>3</sup>	WEEL added, toxicity updated. All Ts changed.
2998	Toluenesulfonamide, P-; (Pasam)	70-55-3	1	3	20	100	mg/m <sup>3</sup>	ChemFinder MF, MW, but irritation not used.
2999	Toluenesulfonic acid, methyl ester, P-	80-48-8	0.75	2.5	15	150	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
3000	Toluenesulfonyl chloride, p-	98-59-9	2.5	7.5	50	250	mg/m <sup>3</sup>	WEEL and toxicity data added. All Ts changed.
3001	Toluenesulphonic acid monohydrate, para; (4-Methylbenzenesulphonic acid monohydrate)	6192-52-5	10	30	200	500	mg/m <sup>3</sup>	SAX CAS RN = 104-15-4, MW = 172.21 without "hydrate"
3002	Toluenethiol, m-	108-40-7	0.2	0.6	4	20	mg/m <sup>3</sup>	
3003	Toluidine, m-; (2-Methylaniline)	108-44-1	2	7.5	40	40	ppm	Toxicity data added, T-1, T-2 changed. See LEL formatting note.
3004	Toluidine, o-	95-53-4	5	5	5	50	ppm	Name corrected. Conc. dep. Changed from N to Y, T-1, T-2 changed. See LEL formatting note.
3005	Toluidine, p-; (4-Methylbenzenamine)	106-49-0	2	15	125	150	mg/m <sup>3</sup>	New data inserted, T-1, T-2, T-3 changed. See LEL formatting note.
3006	Toxaphene; (Chlorinated camphene)	8001-35-2	0.5	1	20	200	mg/m <sup>3</sup>	See LEL formatting note.
3007	Trans-1,4-dichlorobutene; (2-Butylene dichloride)	110-57-6	0.04	0.125	0.861	7.5	ppm	See LEL formatting note.
3008	Transformer oil; (Mineral oil, petroleum distillates, hydrotreated (mild) light naphthenic)	64742-53-6	5	15	100	500	mg/m <sup>3</sup>	Severe irritant rb sk. T-0, T-1, T-2 changed.
3009	Tri(2-ethylhexyl) phosphate; (Tris(2-ethylhexyl)phosphate)	78-42-2	12.5	12.5	12.5	12.5	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
3010	Triacetin; (Triacetyl glycerin)	102-76-1	12.5	35	250	500	mg/m <sup>3</sup>	See LEL formatting note.
3011	Triamiphos	1031-47-6	2	6	10	10	mg/m <sup>3</sup>	
3012	Triaryl sulfonium chloride salts	109037-76-5	10	10	25	125	mg/m <sup>3</sup>	Name corrected.
3013	Triazine-1,3,5(2H,4H,6H)-triethanol, s-; (Onyxide 200)	4719-04-4	3	10	60	350	mg/m <sup>3</sup>	
3014	Triazofos; (Triazophos)	24017-47-8	0.5	1.5	2.8	125	mg/m <sup>3</sup>	
3015	Tribenzylamine	620-40-6	10	30	50	250	mg/m <sup>3</sup>	Not found in databases, ChemFinder MF, MW, pchem data.
3016	Tributyl citrate	77-94-1	1	3	20	75	ppm	
3017	Tributyl phosphate	126-73-8	0.459	2	15	30	ppm	T-1, T-2 changed.
3018	Tributyl(2,4-dichlorobenzyl)phosphonium chloride	115-78-6	0.75	2	15	75	mg/m <sup>3</sup>	
3019	Tributyl-1-butanaminium iodide, N,n,n-; (Tetrabutylammonium iodide)	311-28-4	7.5	25	150	500	mg/m <sup>3</sup>	

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
3020	Tributylphosphine	998-40-3	0.35	1	7.5	40	ppm	Added.
3021	Tributyltetradecylphosphonium chloride	81741-28-8	10	30	50	250	mg/m <sup>3</sup>	Used PNOS default.
3022	Trichloramine; (Nitrogen chloride)	10025-85-1	0.125	0.35	2.5	25	ppm	
3023	Trichloro ethyl phosphonate; ( (2,2,2-Trichloro-1-hydroxyethyl)dimethylphosphonate; Trichlorphon)	52-68-6	1	3	5	500	mg/m <sup>3</sup>	Added.
3024	Trichloro(dichlorophenyl) silane	27137-85-5	0.03	0.1	0.698	0.698	ppm	
3025	Trichloro-2,2,2-trifluoroethane, 1,1,1-	354-58-5	250	500	500	500	mg/m <sup>3</sup>	
3026	Trichloroacetaldehyde hydrate; (Chloral hydrate)	302-17-0	10	30	50	50	mg/m <sup>3</sup>	
3027	Trichloroacetaldehyde; (Chloral)	75-87-6	2.5	7.5	50	250	mg/m <sup>3</sup>	
3028	Trichloroacetic acid	76-03-9	1	1	2	25	ppm	
3029	Trichloroacetyl chloride	76-02-8	0.03	0.075	0.606	6	ppm	ERPGs in process.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
3030	Trichlorobenzene, 1,2,3-	87-61-6	6	15	125	500	mg/m <sup>3</sup>	
3031	Trichlorobenzene, 1,2,4-	120-82-1	5	5	5	40	ppm	See LEL formatting note.
3032	<b>Trichloroethane, 1,1,1-; (Methyl chloroform)</b>	<b>71-55-6</b>	230	230	600	4200	ppm	<b>Interim AEGL-1, -2, -3. See LEL formatting note.</b>
3033	Trichloroethane, 1,1,2-	79-00-5	10	10	15	100	ppm	See LEL formatting note.
3034	Trichloroethanol, 2,2,2-	115-20-8	12.5	35	250	250	mg/m <sup>3</sup>	Added.
3035	<b>Trichloroethylene</b>	<b>79-01-6</b>	100	130	450	3800	ppm	<b>Interim AEGL-1, -2, -3. See LEL formatting note.</b>
3036	Trichloroethylsilane; (Ethyl trichlorosilane)	115-21-9	0.02	0.06	0.449	6	ppm	
3037	Trichlorofluoromethane; (Fluorotrichloromethane, Freon 11)	75-69-4	500	500	1500	2000	ppm	
3038	Trichloronaphthalene	1321-65-9	5	15	25	50	mg/m <sup>3</sup>	T-3 changed.
3039	Trichloronate; (Ethyl trichlorophenylethylphosphonothioate)	327-98-0	2	6	10	300	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
3040	Trichlorophenol, 2,3,6-	933-75-5	1.25	4	25	125	mg/m <sup>3</sup>	
3041	Trichlorophenol, 2,4,5-	95-95-4	10	30	350	350	mg/m <sup>3</sup>	T-2 changed.
3042	Trichlorophenol, 2,4,6-	88-06-2	10	30	350	350	mg/m <sup>3</sup>	
3043	Trichlorophenoxy)propionic acid, 2-(2,4,5-; (2,4,5-Silvex)	93-72-1	10	30	200	250	mg/m <sup>3</sup>	T-2 changed.
3044	Trichlorophenoxyacetic acid, 2,4,5-; (2,4,5-T)	93-76-5	10	30	50	250	mg/m <sup>3</sup>	
3045	Trichlorophenylsilane	98-13-5	0.15	0.4	3.3	40	mg/m <sup>3</sup>	
3046	Trichloropropane, 1,2,3-	96-18-4	10	10	10	100	ppm	PEL-TWA not used. See LEL formatting note.
3047	<b>Trichlorosilane</b>	<b>10025-78-2</b>	0.35	1	3	25	ppm	<b>ERPG-1, -2, -3. See LEL formatting note.</b>
3048	Trichlorotrifluoroethane; (Freon 113; CFC113)	76-13-1	1000	1250	1500	2000	ppm	
3049	Tridecane	629-50-5	0.015	0.05	0.35	6	ppm	RTECS toxicity data used. All Ts changed.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
3050	Tridodecylamine; (Alamine 304; N,N-didodecyl-1-dodecanamine)	102-87-4	7.5	25	150	500	mg/m <sup>3</sup>	TSCA listed. Name corrected. No toxicity data found. HHR = 2 in MSDS. All Ts changed.
3051	Triethanolamine; (Trihydroxytriethylamine)	102-71-6	5	5	20	500	mg/m <sup>3</sup>	
3052	Triethoxysilane	998-30-1	0.05	0.15	0.745	15	ppm	
3053	Triethoxysilyl-1-propanamine, 2-; (3-Aminopropyltriethoxysilane)	919-30-2	6	15	125	500	mg/m <sup>3</sup>	HC&P has BP = 119 C
3054	Triethoxyvinylsilane	78-08-0	15	50	350	1500	ppm	Added.
3055	Triethyl phosphate; (TEP)	78-40-0	75	200	500	500	mg/m <sup>3</sup>	Input data revised, T-0, T-1, T-2 changed. See LEL formatting note.
3056	Triethyl phosphite	122-52-1	2	6	40	200	ppm	See LEL formatting note.
3057	Triethyl-, hydroxide, Ethanaminium, n,n,n-; (Tetraethyl ammonium hydroxide)	77-98-5	0.35	1	7.5	35	mg/m <sup>3</sup>	
3058	Triethylaluminum	97-93-8	8.46	8.46	50	250	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
3059	Triethylamine	121-44-8	1	3	3	200	ppm	PEL-TWA not used. See LEL formatting note.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
3060	Triethylammonium bicarbonate buffer ph 8.5	15715-58-9	10	30	50	250	mg/m <sup>3</sup>	Added. Not found in databases.
3061	Triethylbenzene (mixed isomers)	25340-18-5	6	15	125	600	ppm	See LEL formatting note.
3062	Triethylene glycol	112-27-6	300	500	500	500	mg/m <sup>3</sup>	See LEL formatting note.
3063	Triethylene glycol monomethyl ether	112-35-6	40	125	500	500	mg/m <sup>3</sup>	
3064	Triethylenetetramine	112-24-3	1	7.5	60	150	ppm	WEEL-TWA added, units changed, all Ts changed.
3065	Triethyloxonium tetrafluoroborate	368-39-8	6.25	18.8	31.3	500	mg/m <sup>3</sup>	Added. TSCA listed, no toxicity or pchem data found, MSDS HHR = 3.
3066	Triethylphosphorothioate; (Tepto)	126-68-1	0.15	0.5	3.5	15	ppm	Added.
3067	Trifluoro-1-(2-thienyl)-1,3-butanedione, 4,4,4-boron difluoride	22502-27-8	0.75	2.5	15	75	mg/m <sup>3</sup>	Name corrected.
3068	Trifluoro-4-nitro-m-cresol, Alpha,Alpha,Alpha-; (4-Nitro-3-(trifluoromethyl)phenol)	88-30-2	0.6	1.5	12.5	60	mg/m <sup>3</sup>	Added.
3069	Trifluoroacetaldehyde hydrate; (2,2,2-Trifluoro-1,1-ethanediol)	421-53-4	2.5	7.5	50	250	mg/m <sup>3</sup>	Added.

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
3070	Trifluoroacetic acid anhydride	407-25-0	4.61	13.8	23	461	mg/m <sup>3</sup>	All Ts changed.
3071	Trifluoroacetic acid; (Trifluoroethanoic acid)	76-05-1	10	15	15	15	ppm	
3072	Trifluoroacetyl chloride	354-32-5	1.07	3.21	50	249	ppm	T-0, T-1, T-2 changed.
3073	Trifluoroethanol, 2,2,2-; (Trifluoroethyl alcohol)	75-89-8	0.3	7.5	60	60	ppm	"D3" deleted from synonym. WEEL-TWA added, toxicity data changed, T-0, T-1 changed.
3074	Trifluoromethanesulfonic acid; (Triflic acid)	1493-13-6	0.1	0.3	2	10	ppm	Added. No toxicity data found.
3075	Trifluoromethanesulfonic anhydride	358-23-6	1.5	5	35	150	mg/m <sup>3</sup>	Added. Not found in databases. HHR = 3 from MSDS
3076	Trifluoromethyl iodide; (Iodotrifluoromethane)	2314-97-8	2000	4000	4000	4000	ppm	Added.
3077	Trifluoromethyl)benzenamine, 3-( ; (m-Aminobenzal fluoride)	98-16-8	0.75	2.5	4.4	150	mg/m <sup>3</sup>	
3078	Trifluralin; (2,6-dinitro-N,N-dipropyl-4-(trifluoromethyl) benzenamine	1582-09-8	0.025	0.075	0.6	300	mg/m <sup>3</sup>	
3079	Triisobutylaluminum	100-99-2	14.7	44.1	500	500	mg/m <sup>3</sup>	T-2 changed.

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

**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
3080	Trimethoxy(3,3,3-fluoropropyl) silane	429-60-7	9.57	28.7	50	500	mg/m <sup>3</sup>	TSCA listed, no toxicity or pchem data found. T-0, T-1 changed.
3081	Trimethoxyboroxine	102-24-9	20	60	400	500	mg/m <sup>3</sup>	
3082	<b>Trimethoxysilane</b>	<b>2487-90-3</b>	0.05	0.5	2	5	ppm	<b>ERPG-1, -2, -3</b>
3083	Trimethoxysilyl-1-propanamine, 3-(	13822-56-5	10	30	50	250	mg/m <sup>3</sup>	TSCA, H&N listed, no toxicity data. Assumed nonvolatile.
3084	Trimethoxysilyl-1-Propanethiol, 3-; (3-Mercaptopropyltrimethoxysilane)	4420-74-0	3	7.5	60	300	mg/m <sup>3</sup>	Rat LD50 = 730uL/kg
3085	Trimethoxysilylpropyl methacrylate, 3-; (Silane A-174)	2530-85-0	6	15	125	500	mg/m <sup>3</sup>	Name corrected.
3086	Trimethoxysilylpropyl) ethylenediamine, N-(3-	1760-24-3	30	75	500	500	mg/m <sup>3</sup>	Added.
3087	Trimethoxyvinylsilane; (Silane, trimethoxyvinyl)	2768-02-7	30	75	300	300	ppm	CAS RN corrected.
3088	Trimethyl borate	121-43-7	6	15	125	600	ppm	
3089	Trimethyl N', 2-hydroxyethyl-propylenediamine	82136-26-3	10	30	50	250	mg/m <sup>3</sup>	Added. Not found in databases.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
3090	Trimethyl phosphate; (TMP)	512-56-1	5	15	60	60	ppm	
3091	Trimethyl phosphite	121-45-9	2	60	500	750	ppm	T-1, T-2 changed. See LEL formatting note.
3092	Trimethyl-1,3-pentanediol monoisobutyrate, 2,2,4-; (Texanol)	25265-77-4	25	75	500	500	mg/m <sup>3</sup>	See LEL formatting note.
3093	Trimethyl-1-pentene, 2,4,4-: (Diisobutylene)	107-39-1	75	225	375	<b><i>1500</i></b>	ppm	Added. Iso-octane not listed as synonym for this CAS RN. No toxicity data found.
3094	Trimethyl-2,5,8,11-tetraoxatetradecan-13-ol, 4,7,10-	20324-34-9	10	30	50	250	mg/m <sup>3</sup>	
3095	Trimethyl-2-hexene, 4,4,5-	55702-61-9	10	30	50	250	mg/m <sup>3</sup>	
3096	Trimethyl-2-oxepanone (mixed isomers); (Hexanoic acid, 6-hydroxytrimethyl, e-lactone; Trimethyl-E-lactone)	64047-30-9	30	75	500	500	mg/m <sup>3</sup>	Not in ChemBank, toxicity data ex SAX. No pchem data found. Synonym added.
3097	Trimethylacetic acid; (Pivalic acid)	75-98-9	3.5	10	75	400	mg/m <sup>3</sup>	Added.
3098	Trimethylacetyl chloride; (Pivaloyl chloride)	3282-30-2	0.1	0.3	2	10	ppm	No toxicity data found.
3099	Trimethylaluminum	75-24-1	5.34	16	26.7	125	mg/m <sup>3</sup>	Added. No toxicity data found, used Al alkyl cmpnds. MSDS says very corrosive, but use of "Y" would give all Ts equal to 2 mg/m <sup>3</sup>

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
3100	<b>Trimethylamine</b>	<b>75-50-3</b>	5	15	100	500	ppm	<b>ERPG-2, -3; ignored ERPG-1 See LEL formatting note.</b>
3101	Trimethylaniline, 2,4,6-	88-05-1	0.125	0.4	2.9	40	mg/m <sup>3</sup>	
3102	Trimethylbenzene, 1,2,3-	526-73-8	25	75	125	750	ppm	See LEL formatting note.
3103	Trimethylbenzene, 1,2,4-; (Pseudocumene; Instagel)	95-63-6	25	36.6	36.6	<b>1500</b>	ppm	See LEL formatting note.
3104	Trimethylbicyclo(3.1.1)-2-hept-2-ene, 2,6,6-; (Alpha-Pinene)	80-56-8	0.0002	0.0005	0.0035	0.015	mg/m <sup>3</sup>	Name added
3105	<b>Trimethylchlorosilane</b>	<b>75-77-4</b>	0.6	1.8	32	130	ppm	<b>Interim AEGL-1, -2, -3. See LEL formatting note.</b>
3106	Trimethyldecane, 2,2,8-	62238-01-1	46.5	46.5	239	<b>1250</b>	ppm	NIOSH limits for Alkanes used. See LEL formatting note.
3107	Trimethyldecane, 2,5,6-	62108-23-0	46.5	46.5	239	<b>1250</b>	ppm	NIOSH limits for Alkanes used. See LEL formatting note.
3108	Trimethyldecane, 3,3,4-	49622-18-6	46.5	46.5	239	<b>1250</b>	ppm	CAS RN changed from 62338-09-4, NIOSH limits for Alkanes used. T-3 changed. See LEL formatting note.
3109	Trimethylene oxide; (Oxetane)	503-30-0	0.1	0.3	2	75	mg/m <sup>3</sup>	SAX BP = 480C differs from other sources.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
3110	Trimethylgallium	1445-79-0	1.5	5	35	150	mg/m <sup>3</sup>	Added. TSCA, HC&P listed. No toxicity data found.
3111	Trimethylhexane, 2,2,5-	3522-94-9	66.8	66.8	343	<i>1500</i>	ppm	NIOSH limits for Alkanes used. See LEL formatting note.
3112	Trimethyloctane, 2,2,6-	62016-28-8	54.8	54.8	282	<i>1250</i>	ppm	NIOSH limits for Alkanes used. See LEL formatting note.
3113	Trimethyloctane, 2,3,6-	98060-52-7	54.8	54.8	282	<i>1000</i>	ppm	NIOSH limits for Alkanes used. See LEL formatting note.
3114	Trimethyloctane, 2,3,7-	62016-34-6	54.8	54.8	282	<i>1250</i>	ppm	NIOSH limits for Alkanes used. See LEL formatting note.
3115	Trimethyloctane, 2,4,6-	62016-37-9	54.8	54.8	282	<i>1250</i>	ppm	NIOSH limits for Alkanes used. See LEL formatting note.
3116	Trimethyloctane, 2,6,6-	54166-32-4	54.8	54.8	282	<i>1250</i>	ppm	NIOSH limits for Alkanes used. See LEL formatting note.
3117	Trimethylolpropane ethoxylate	50586-59-9	10	30	50	250	mg/m <sup>3</sup>	TSCA listed, no toxicity data. No useful data in MSDS assumed nonvolatile.
3118	Trimethylolpropane phosphite	824-11-3	0.125	0.35	2.5	6	mg/m <sup>3</sup>	
3119	Trimethylolpropane methylated copolymer	71342-93-3	10	30	50	250	mg/m <sup>3</sup>	Added. TSCA listed. No toxicity or pchem data found.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
3120	Trimethylphosphine	594-09-2	0.1	0.3	2	10	ppm	Added.
3121	Trimethylpyridine, 2,4,6-	108-75-8	1.5	5	35	150	ppm	
3122	Trimethylsilanol	1066-40-6	0.05	0.5	2	5	ppm	<b>SAR</b>
3123	Trimethylsilylmethyl lithium	1822-00-0	1.5	5	35	150	mg/m <sup>3</sup>	Added. No toxicity data found, used HHR = 3.
3124	Trimethyltin chloride; (Chlorotrimethylstannane)	1066-45-1	0.168	0.336	20	42	mg/m <sup>3</sup>	T-0, T-1, T-3 changed.
3125	Trimethyltriheptylamine, 6,6',6''-; (Triisooctylamine)	2757-28-0	10	15	125	500	mg/m <sup>3</sup>	T-2 changed.
3126	Tri-n-butylamine	102-82-9	0.02	0.06	0.4	7.5	ppm	Added. See LEL formatting note.
3127	Trinitrobenzene 1,3,5-	99-35-4	10	30	50	125	mg/m <sup>3</sup>	
3128	Trinitrochlorobenzene, 2,4,6-; (Picryl chloride)	28260-61-9	10	30	50	250	mg/m <sup>3</sup>	
3129	Trinitrophenylmethylnitramine, 2,4,6-; (Tetryl)	479-45-8	1.5	7.5	50	500	mg/m <sup>3</sup>	T-1, T-2 changed.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
3130	Trinitrotoluene, 2,4,6-	118-96-7	1.5	7.5	60	500	mg/m <sup>3</sup>	T-1, T-2 changed.
3131	Tri-n-octylphosphine oxide; (Trioctylphosphine oxide)	78-50-2	10	30	50	250	mg/m <sup>3</sup>	
3132	Trioctylamine; (n,n-Dioctyl-1-octanamine)	1116-76-3	4	12.5	75	400	mg/m <sup>3</sup>	
3133	Trioctylphosphine; (Tri-n-octylphosphine)	4731-53-7	0.5	1.5	10	50	mg/m <sup>3</sup>	Added. No pchem data found. Mouse LC50 > 1600 mg/m <sup>3</sup> .
3134	Tri-o-tolyl phosphate; (Triorthocresyl phosphate)	78-30-8	0.1	0.3	0.6	40	ppm	T-2 changed.
3135	Tripentaerythritol; (Tripenek)	78-24-0	10	30	50	250	mg/m <sup>3</sup>	No toxicity data found
3136	Triphenyl phosphate	115-86-6	3	9	500	500	mg/m <sup>3</sup>	T-2 changed.
3137	Triphenyl phosphite	101-02-0	7.5	25	150	200	mg/m <sup>3</sup>	
3138	Triphenylborane	960-71-4	7.5	25	150	500	mg/m <sup>3</sup>	Added. Severe irritant, but no toxicity data found.
3139	Triphenylethoxysilane	1516-80-9	10	30	50	250	mg/m <sup>3</sup>	TSCA, HC&P listed, no toxicity data

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
3140	Triphenylolmethane triglycidyl ether	66072-38-6	10	30	50	250	mg/m <sup>3</sup>	TSCA listed, no toxicity data, no MSDS, assumed solid or nonvolatile liquid.
3141	Triphenylphosphine	603-35-0	1.5	5	40	500	mg/m <sup>3</sup>	
3142	Triphenyltin chloride; (Chlorotriphenylstannane)	639-58-7	0.325	0.65	20	81.2	mg/m <sup>3</sup>	T-0, T-1, T-3 changed.
3143	Tripotassium (2-hydroxyethyl)- ethylenediaminetriacetate; (Tripotassium HEDTA)	62029-50-9	0.35	1	7.5	40	ppm	TSCA listed. Synonym changed. SAR
3144	Tripotassium arsenate	13464-36-3	0.0342	0.103	0.171	17.1	mg/m <sup>3</sup>	All Ts changed.
3145	Tripropylamine	102-69-2	3.5	10	75	350	ppm	RTECS replaced SAX data. All Ts changed. See LEL formatting note.
3146	Tripropylene glycol methyl ether	25498-49-1	12.5	40	250	500	mg/m <sup>3</sup>	Added. Pchem data ex CHRIS
3147	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	
3148	Tripropylene glycol; (((1-methyl-1,2- ethanediyl)bis(oxy))bis-propanol)	24800-44-0	1.5	5	35	150	ppm	CAS RN changed from 1638-16-0.
3149	Tris hydrochloride; (Trizma hydrochloride; Tris(hydroxymethyl) aminomethane hydrochloride)	1185-53-1	7.5	25	150	500	mg/m <sup>3</sup>	CAS RN changed to 1185-53-1 (TSCA, ChemFinder and Sigma-Aldrich). Not found in databases, data ex MSDS. Duplicate deleted.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
3150	Tris((hydroxymethyl)methylamino)propane-1-sulphonic acid, 3-	29915-38-6	10	30	50	250	mg/m <sup>3</sup>	TSCA listed, no toxicity data. ChemFinder MW, MP
3151	Tris(2-aminoethyl)amine	4097-89-6	2	6	40	100	mg/m <sup>3</sup>	Added. No pchem data found.
3152	Tris(2-chloroethyl) phosphate; (2-Chloroethanol phosphate)	115-96-8	7.5	20	150	500	mg/m <sup>3</sup>	
3153	Tris(2-chloroethyl)amine	555-77-1	4	10	10	10	mg/m <sup>3</sup>	Unable to confirm previous synonym "Nitrogen mustard 3"
3154	Tris(dimethylaminomethyl)phenol, 2,4,6-	90-72-2	5	15	100	500	mg/m <sup>3</sup>	
3155	Tris-hydroxymethylaminomethane; (THAM)	77-86-1	25	75	500	500	mg/m <sup>3</sup>	
3156	Trisodium arsenate	13464-38-5	0.0277	0.0832	0.139	13.9	mg/m <sup>3</sup>	MW and MF vary in sources. All Ts changed.
3157	Trisodium arsenate, heptahydrate; (Arsenic(V) acid, trisodium salt, heptahydrate (1:3:7))	64070-83-3	0.0446	0.134	0.223	22.3	mg/m <sup>3</sup>	All Ts changed.
3158	Trisodium citrate	68-04-2	0.6	1.5	12.5	60	ppm	TSCA has different MF
3159	Trisodium-n-hydroxyethylethylenediaminetriacetate; (Trisodium-N-(2-hydroxyethyl)ethylenediaminetriacetate)	139-89-9	4	12.5	75	400	mg/m <sup>3</sup>	Name corrected. HSDB, HC&P MW = 344.2, but RTECS, H&N MW =347.27 SAR

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
3160	Triton X-100; (Poly(oxyethylene)-p-tert-octylphenyl ether)	9002-93-1	15	40	300	500	mg/m <sup>3</sup>	
3161	Trypan blue	72-57-1	10	30	50	500	mg/m <sup>3</sup>	
3162	Trypsin; (Parezyme; Chymotrypsin inhibitor)	9002-07-7	0.025	0.075	0.6	30	mg/m <sup>3</sup>	Added.
3163	Trypsinogen	9002-08-8	7.5	25	150	500	mg/m <sup>3</sup>	Added. Not found in databases, MSDS HHR = 2.
3164	Tungstosilicic acid	11130-20-4	6.52	13	13	13	mg/m <sup>3</sup>	Added. TSCA listed, no pchem data.
3165	Tungsten	7440-33-7	5	10	10	500	mg/m <sup>3</sup>	
3166	Tungsten boride	12007-09-9	5.29	10.6	26.5	125	mg/m <sup>3</sup>	TSCA, HC&P listed, no toxicity data. T-0, T-1, T-2 changed.
3167	Tungsten carbide	12070-12-1	5.33	10.7	10.7	10.7	mg/m <sup>3</sup>	No toxicity data found. All Ts changed.
3168	Tungsten hexafluoride	7783-82-6	1.62	4.86	75	405	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
3169	Tungsten trioxide; (Tungsten(VI) oxide)	1314-35-8	6.31	12.6	400	400	mg/m <sup>3</sup>	T-0, T-2 changed.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
3170	Tungsten(iv) chloride (tungsten tetrachloride)	13470-13-8	10	30	50	250	mg/m <sup>3</sup>	Added. No ntoxicity or pchem data found.
3171	Tungsten(IV) oxide	12036-22-5	5.87	11.7	11.7	11.7	mg/m <sup>3</sup>	All Ts changed.
3172	Tungstic acid	7783-03-1	6.8	13.6	13.6	13.6	mg/m <sup>3</sup>	No toxicity data. Insoluble W compound. All Ts changed.
3173	Turpentine	8006-64-2	100	100	100	<b>800</b>	ppm	See LEL formatting note.
3174	Undecane	1120-21-4	0.35	1	6	35	ppm	
3175	Undecanone, 2-; (Methyl nonyl ketone)	112-12-9	0.2	0.6	4	300	ppm	See LEL formatting note.
3176	Uranine; (Fluorescein sodium)	518-47-8	12.5	40	250	500	mg/m <sup>3</sup>	
3177	Uranium	7440-61-1	0.05	0.6	2	10	mg/m <sup>3</sup>	T-2 changed.
3178	<b>Uranium hexafluoride; (Uranium fluoride)</b>	<b>7783-81-5</b>	0.0739	3.6	9.6	36	mg/m <sup>3</sup>	<b>Final AEGL-1, -2, -3.</b>
3179	Uranium hydride; (Uranium(III) hydride)	13598-56-6	0.0506	0.608	2	10.1	mg/m <sup>3</sup>	T-2 changed.

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
3180	<b>Uranium oxide; (Triuranium octaoxide)</b>	<b>1344-59-8</b>	0.059	0.707	10	50	mg/m <sup>3</sup>	<b>ERPG-2, -3</b>
3181	Uranium telluride	12138-37-3	0.104	1.24	4	20.7	mg/m <sup>3</sup>	Name and CAS RN changed. Insoluble U compound. T-0, T-2, T-3 changed.
3182	Uranium telluride A	12138-37-3a	0.0857	1.03	3.5	17.1	mg/m <sup>3</sup>	Name changed, treated as insoluble. All Ts changed.
3183	<b>Uranium(IV) oxide; (Uranium black oxide)</b>	<b>1344-57-6</b>	0.0567	0.681	10	30	mg/m <sup>3</sup>	<b>ERPG-2, -3.</b>
3184	Uranium: insoluble compounds	z-0083	0.25	0.6	2	10	mg/m <sup>3</sup>	Insoluble U compound. T-0, T-2 changed.
3185	Uranium: soluble compounds	z-0084	0.05	0.6	2	10	mg/m <sup>3</sup>	T-2 changed.
3186	Uranyl acetate; (Uranium oxyacetate)	541-09-3	0.0891	1.07	3.5	17.8	mg/m <sup>3</sup>	All Ts changed.
3187	Uranyl fluoride; (Uranium oxyfluoride)	13536-84-0	0.0647	0.776	2.5	12.9	mg/m <sup>3</sup>	CAS RN corrected. All Ts changed.
3188	Uranyl hydroxide	13470-18-3a	0.0639	0.766	2.5	12.8	mg/m <sup>3</sup>	All Ts changed.
3189	Uranyl hydroxide (liquids)	13470-18-3b	0.0639	0.766	2.5	12.8	mg/m <sup>3</sup>	All Ts changed.

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

**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
3190	Uranyl nitrate (solid); (Bis(nitrato-O,O')dioxouranium)	10102-06-4	0.0828	0.993	3	16.6	mg/m <sup>3</sup>	T-0, T-2, T-3 changed.
3191	Uranyl nitrate hexahydrate	13520-83-7	0.105	1.27	1.27	21.1	mg/m <sup>3</sup>	T-0, T-3 changed.
3192	Uranyl nitrate; (yellow salt)	36478-76-9	0.0828	0.993	0.993	16.6	mg/m <sup>3</sup>	T-0, T-2, T-3 changed.
3193	Uranyl nitrite (liquids)	z-0087	0.076	0.913	3	15.2	mg/m <sup>3</sup>	T-1, T-2 changed.
3194	Urea	57-13-6	10	10	15	500	mg/m <sup>3</sup>	WEEL-TWA added, T-0, T-1 changed. See LEL formatting note.
3195	Urea peroxide; (Urea hydrogen peroxide)	124-43-6	1.5	5	35	150	mg/m <sup>3</sup>	Added.
3196	Urethane; (Carbamic acid, ethyl ester; Ethyl carbamate)	51-79-6	500	500	500	500	mg/m <sup>3</sup>	
3197	Valeric acid	109-52-4	30	75	500	500	mg/m <sup>3</sup>	See LEL formatting note.
3198	Valinomycin	2001-95-8	0.5	1.5	2.5	2.5	mg/m <sup>3</sup>	
3199	Vanadium	7440-62-2	0.05	0.15	0.5	35	mg/m <sup>3</sup>	All Ts changed.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
3200	Vanadium pentoxide; (Vanadium(V) oxide)	1314-62-1	0.05	0.5	0.5	35	mg/m <sup>3</sup>	
3201	Vanadium sulfate	16785-81-2	0.5	1.5	10	50	mg/m <sup>3</sup>	
3202	Vanadium tetrachloride	7632-51-1	0.6	2	12.5	60	mg/m <sup>3</sup>	
3203	Vanadium trioxide	1314-34-7	0.0412	0.124	50	50	mg/m <sup>3</sup>	T-0, T-2 changed.
3204	Vanadium(II) sulfate heptahydrate	36907-42-3	0.05	0.05	0.05	0.25	mg/m <sup>3</sup>	
3205	Vanadium(III) sulfate	13701-70-7	0.107	0.107	0.107	0.5	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
3206	Vanadium, trichlorooxo	7727-18-6	0.075	0.25	1.5	7.5	ppm	
3207	Vanadyl sulfate pentahydrate; (Vanadium(IV) sulfate oxide hydrate)	12439-96-2	0.0696	3	20	200	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
3208	Vanadyl sulfate; (Oxysulfatovanadium)	27774-13-6	0.05	0.5	0.5	35	mg/m <sup>3</sup>	
3209	Vanilin	121-33-5	5	15	125	500	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
3210	Vegetable oil	68956-68-3	15	30	50	500	mg/m <sup>3</sup>	
3211	Veratraldehyde	120-14-9	7.5	25	150	500	mg/m <sup>3</sup>	
3212	Vermiculite, exfoliated	1318-00-9	10	30	50	250	mg/m <sup>3</sup>	No toxicity data found
3213	Vinyl 2-chloroethylsulfide; (2-Chloroethylthio ethene)	81142-02-1	0.15	0.4	3	15	mg/m <sup>3</sup>	Added. Not found in databases.
3214	<b>Vinyl acetate</b>	<b>108-05-4</b>	5	5	75	500	ppm	<b>ERPG-1, -2, -3 See LEL formatting note.</b>
3215	Vinyl acetate-vinyl chloride copolymer; (Acetic acid, vinyl ester, polymer with chloroethylene)	9003-22-9	35	100	500	500	mg/m <sup>3</sup>	
3216	Vinyl acrylic resin; (Vinyl acetate, polymer with n-butyl acrylate)	25067-01-0	10	30	50	250	mg/m <sup>3</sup>	
3217	Vinyl bromide	593-60-2	5	15	40	50	ppm	T-2 changed. See LEL formatting note.
3218	<b>Vinyl chloride</b>	<b>75-01-4</b>	1	250	1200	<b>4800</b>	ppm	<b>Interim AEGL-1, -2, -3. See LEL formatting note.</b>
3219	Vinyl ethyl ether; (Ethoxy ethene)	109-92-2	15	50	350	<b>1500</b>	ppm	See LEL formatting note.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
3220	Vinyl fluoride	75-02-5	1	75	500	<b><i>75000</i></b>	ppm	ERPGs considered, not developed. LC50 added, T-3 changed. See LEL formatting note.
3221	Vinyl Terminated Dimethyl-Diphenylsiloxane Copolymer	68951-96-2	75	250	500	500	mg/m <sup>3</sup>	Added. TSCA listed, no toxicity data found, HHR = 0 in MSDS.
3222	<b>Vinyl trichlorosilane</b>	<b>75-94-5</b>	0.15	0.5	5	50	ppm	<b>ERPG-1, -2, -3</b>
3223	Vinyl-2-pyrrolidinone, 1-	88-12-0	0.05	5	40	75	ppm	Duplicate deleted. See LEL formatting note.
3224	Vinylbenzylchloride; (4-Vinylbenzyl chloride)	1592-20-7	1.5	5	35	150	mg/m <sup>3</sup>	Added. TSCA listed, no toxicity data found, MSDS UUR = 3.
3225	Vinylcyclohexene, 4-; (Cyclohevenylethylene)	100-40-3	0.1	0.3	3500	3500	ppm	Added.
3226	Vinylformamide, N-	13162-05-5	5	15	100	500	mg/m <sup>3</sup>	Added. TSCA lisyed. MSDS pchem and toxicity information used..
3227	<b>Vinylidene chloride; (1,1-dichloroethylene)</b>	<b>75-35-4</b>	5	75	500	1000	ppm	<b>ERPG-2, -3. See LEL formatting note.</b>
3228	Vinylidene fluoride; (1,1-Difluoroethene)	75-38-7	500	500	500	<b><i>12500</i></b>	ppm	See LEL formatting note.
3229	Vinylmagnesium bromide	1826-67-1	1.5	5	35	150	mg/m <sup>3</sup>	Added. TSCA listed, no toxicity data found. MSDS HHR - 3.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
3230	Vinylpyrrolidone/vinyl acetate copolymer	25086-89-9	100	250	250	250	mg/m <sup>3</sup>	Added. Rat oral LD50 > 650 mg/kg
3231	Vinyltrimethoxysilane; (Ethenyltrimethoxysilane)	2768-02-7	150	400	1000	1000	ppm	Added. Rat LC50 exposure time assumed = 240 min.
3232	Virginia refrigeration oil 150 and 300; (Mineral oil, petroleum distillates, hydrotreated (mild) heavy naphthenic)	64742-52-5	15	40	300	500	mg/m <sup>3</sup>	Added. Rat oral LD50 > 5 g/kg
3233	Vsub; (VXR)	20820-80-8	6E-05	0.0002	0.00125	0.006	ppm	Added. No pchem data found. Client human LC50.
3234	Warfarin	81-81-2	0.1	0.3	20	20	mg/m <sup>3</sup>	
3235	Warfarin sodium	129-06-6	1.5	5	9	9	mg/m <sup>3</sup>	
3236	Xenon	7440-63-3	65000	65000	230000	400000	ppm	Simple asphyxiant, all Ts changed.
3237	Xylene, m-	108-38-3	100	150	200	900	ppm	See LEL formatting note.
3238	Xylene, o-	95-47-6	100	150	200	<b>900</b>	ppm	See LEL formatting note.
3239	Xylene, p-	106-42-3	100	150	200	900	ppm	See LEL formatting note.

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
3240	<b>Xylenes</b>	<b>1330-20-7</b>	100	130	<i>920</i>	<i>2500</i>	ppm	<b>Interim AEGL-1, -2, -3. See LEL formatting note.</b>
3241	Xylenol orange tetrasodium salt	3618-43-7	10	30	50	250	mg/m <sup>3</sup>	
3242	Xylidine	1300-73-8	5	5	5	50	ppm	T-0, T-1, T-2 changed. See LEL formatting note.
3243	Xylidine, 2,6-	87-62-7	6	20	125	350	mg/m <sup>3</sup>	See LEL formatting note.
3244	Xylidine, o-; (2,3-Xylidine)	87-59-2	0.5	10	10	50	ppm	
3245	Xylylene dichloride	28347-13-9	0.4	1.25	2	75	mg/m <sup>3</sup>	
3246	Yeast extract	8013-01-2	15	50	400	500	mg/m <sup>3</sup>	
3247	Ytterbium fluoride	13760-80-0	10.1	10.1	10.1	10.1	mg/m <sup>3</sup>	
3248	Ytterbium oxide	1314-37-0	10	30	50	250	mg/m <sup>3</sup>	
3249	Yttrium	7440-65-5	1	3	5	25	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
3250	Yttrium chloride, hexahydrate	10025-94-2	3.41	10.2	17.1	500	mg/m <sup>3</sup>	TSCA listed, no toxicity or pchem data found. T-0, T-2 changed.
3251	Yttrium oxide	11130-29-3	1.18	3.54	100	500	mg/m <sup>3</sup>	Rat oral LD50 > 5 g/kg. T-0, T-1, T-2 changed.
3252	Yttrium trioxide	1314-36-9	1.27	3.81	40	500	mg/m <sup>3</sup>	T-1, T-2 changed.
3253	Zeolites, CaA; (Molecular sieve activated, type 5A)	68989-20-8	7.5	25	150	500	mg/m <sup>3</sup>	MSDS HHR = 2. All Ts changed.
3254	Zeolites, KA; (Molecular seive activated, type 3A)	68989-21-9	10	30	50	250	mg/m <sup>3</sup>	MSDS CAS RN = 308080-99-1, synonym added., no useful data found.
3255	Zeolites, -NaA-; (Molecular sieve-4A-)	68989-22-0	6	15	125	500	mg/m <sup>3</sup>	Duplicate deleted.
3256	Zeolites, NaX; (Molecular sieve XS-11)	68989-23-1	10	30	50	250	mg/m <sup>3</sup>	TSCA listed, no toxicity or pchem data found, synonym added.
3257	Zinc	7440-66-6	10	30	50	200	mg/m <sup>3</sup>	T-3 changed.
3258	Zinc acetate	557-34-6	0.3	0.75	6	500	mg/m <sup>3</sup>	
3259	Zinc acetate dihydrate	5970-45-6	25	75	350	350	mg/m <sup>3</sup>	

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
3260	Zinc bromide	7699-45-8	10	30	50	200	mg/m <sup>3</sup>	
3261	Zinc carbonate	3486-35-9	5	15	100	500	mg/m <sup>3</sup>	
3262	Zinc carbonate hydroxide	5263-02-5	10	30	50	250	mg/m <sup>3</sup>	Not found in databases
3263	Zinc chloride	7646-85-7	2.08	4.17	40	40	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
3264	Zinc cyanide	557-21-1	22.6	22.6	22.6	113	mg/m <sup>3</sup>	All Ts changed.
3265	Zinc fluoride	7783-49-5	6.8	6.8	20	100	mg/m <sup>3</sup>	T-0, T-1 changed.
3266	Zinc hydroxide	20427-58-1	0.6	0.6	1.5	60	mg/m <sup>3</sup>	<b>SAR</b>
3267	Zinc nitrate	7779-88-6	10	10	10	10	mg/m <sup>3</sup>	
3268	Zinc nitrate hexahydrate	10196-18-6	5	15	100	500	mg/m <sup>3</sup>	
3269	Zinc nitrite	10102-02-0	0.035	0.075	0.6	60	mg/m <sup>3</sup>	<b>SAR</b>

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
3270	Zinc oxide	1314-13-2	15	15	15	500	mg/m <sup>3</sup>	
3271	Zinc perchlorate	13637-61-1	10	30	50	250	mg/m <sup>3</sup>	TSCA listed, no toxicity or pchem data found.
3272	Zinc phenolsulfonate; (Zinc p-hydroxybenzenesulfonate)	127-82-2	0.6	2	12.5	500	mg/m <sup>3</sup>	
3273	Zinc phosphate (3:2)	7779-90-0	2	6	50	250	mg/m <sup>3</sup>	SAX, RTECS, TSCA all have H3 in MF, but this would give MW = 392.13
3274	Zinc phosphide	1314-84-7	0.6	1.5	12	60	mg/m <sup>3</sup>	
3275	Zinc stearate	557-05-1	15	30	50	150	mg/m <sup>3</sup>	
3276	Zinc sulfate	7733-02-0	0.15	0.5	3.5	500	mg/m <sup>3</sup>	
3277	Zinc sulfate heptahydrate (1:1:7)	7446-20-0	100	200	200	200	mg/m <sup>3</sup>	Toxicity data corrected, T-0, T-1, T-2 changed.
3278	Zirconium and compounds (as Zr)	7440-67-7	5	10	10	25	mg/m <sup>3</sup>	
3279	Zirconium boride	12045-64-6	6.19	12.4	30.9	30.9	mg/m <sup>3</sup>	T-0, T-2, T-3 changed.

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
3280	Zirconium carbide	12070-14-3	6.32	12.6	12.6	31.6	mg/m <sup>3</sup>	No toxicity data found. T-0, T-3 changed.
3281	Zirconium chloride	10026-11-6	12.8	25.5	25.5	63.9	mg/m <sup>3</sup>	T-0, T-3 changed.
3282	Zirconium chloride oxide octahydrate	13520-92-8	17.7	35.3	35.3	88.3	mg/m <sup>3</sup>	T-0, T-3 changed.
3283	Zirconium fluoride	7783-64-4	9.17	18.3	18.3	45.8	mg/m <sup>3</sup>	All Ts changed.
3284	Zirconium hydride	7704-99-6	5.11	10.2	25.6	25.6	mg/m <sup>3</sup>	T-0, T-2, T-3 changed.
3285	Zirconium hydroxide	14475-63-9	8.73	17.5	17.5	43.6	mg/m <sup>3</sup>	All Ts changed.
3286	Zirconium nitrate	13746-89-9	18.6	37.2	37.2	93	mg/m <sup>3</sup>	All Ts changed.
3287	Zirconium nitride	25658-42-8	5.77	11.5	11.5	28.8	mg/m <sup>3</sup>	TSCA, HC&P listed, no toxicity data. All Ts changed.
3288	Zirconium nitrite	z-0088	7.52	15	15	37.6	mg/m <sup>3</sup>	T-3 changed.
3289	Zirconium oxide	1314-23-4	6.75	13.5	13.5	33.8	mg/m <sup>3</sup>	All Ts changed.

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
3290	Zirconium oxynitrate hydrate	14985-18-3	13.7	27.4	27.4	68.5	mg/m <sup>3</sup>	All Ts changed.
3291	Zirconium phosphide	12037-80-8	8.4	16.8	16.8	42	mg/m <sup>3</sup>	HC&P listed. TSCA CAS RN = 12037-72-8, MW, MF differ. All Ts changed.
3292	Zirconium potassium fluoride; (Potassium fluorozirconate)	16923-95-8	37.3	149	149	373	mg/m <sup>3</sup>	T-0, T-3 changed.
3293	Zirconium silane	z-0089	8.08	16.2	16.2	40.4	mg/m <sup>3</sup>	T-0, T-1, T-2 changed.
3294	Zirconium silicate; (Zirconium silicon oxide; Zircon))	10101-52-7	10.3	20.5	51.3	51.3	mg/m <sup>3</sup>	HC&P has "zirconium orthosilicate", MW = 183.308, MF = Zr SiO <sub>4</sub> . All Ts changed.
3295	Zirconium sulfate tetrahydrate	14644-61-2	19.5	39	39	97.4	mg/m <sup>3</sup>	All Ts changed.
3296	Zirconyl chloride; (Zirconium oxychloride)	7699-43-6	9.76	19.5	97.6	97.6	mg/m <sup>3</sup>	All Ts changed.
3297	Zirconyl nitrate; (Bis(nitrato-o)oxozirconium)	13826-66-9	12.7	25.3	25.3	63.4	mg/m <sup>3</sup>	T-3 changed.
3298	Zonyl fsn fluorosurfactant	65545-80-4	60	150	500	500	mg/m <sup>3</sup>	Added.
3299	zzAcrylic latex	z-0090	10	30	50	250	mg/m <sup>3</sup>	

AEGLs = bold 12pt font / ERPGs (but not AEGLs) = bold 10pt font / Bold green italics: 10% LEL ≤ PAC < 50%;  
bold underlined pink italics: 50% LEL ≤ PAC < 100% LEL; bold double underlined red italics: PAC ≥ LEL.

**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
3300	zzAlumination 301	z-0091	10	30	50	250	mg/m <sup>3</sup>	
3301	zzHydranal coulomat / AG	z-0092	10	30	50	250	mg/m <sup>3</sup>	
3302	zzHydrocarbon polymer	z-0093	10	30	50	250	mg/m <sup>3</sup>	
3303	zzHydrocount(R), LSC cocktail	z-0094	10	30	50	250	mg/m <sup>3</sup>	
3304	zzIconol(R)	z-0095	10	30	50	250	mg/m <sup>3</sup>	CAS RN used for 7 SAX entries, mainly polyethylene glycol compounds
3305	zzMachine coolant 1	z-0096	10	30	50	250	mg/m <sup>3</sup>	
3306	zzMonophase- S	z-0097	10	30	50	250	mg/m <sup>3</sup>	
3307	zzMornar	z-0098	10	30	50	250	mg/m <sup>3</sup>	
3308	zzOpti-Fluor; (Alkyl benzene blend, 3% tributylphosphate)	z-0099	7.5	25	37.5	250	mg/m <sup>3</sup>	Mixture ex MSDS used
3309	zzPaint solvent	z-0100	10	10	10	10	mg/m <sup>3</sup>	

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**Table 2: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)**

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs					Comments and Changes from TEELs Rev 21
			TEEL-0	PAC-1	PAC-2	PAC-3	UNITS	
3310	zzPropanol (-2) aluminum derivative	z-0101	2	6	10	50	mg/m <sup>3</sup>	

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