

Table 4: Protective Action Criteria (PAC) Rev 23 based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)
PAC Rev 23 – August 2007

Table 4 presents an alphabetical listing of the chemicals in the PAC data set and provides Chemical Abstracts Service Registry Numbers (CAS RNs),¹ PAC data, and technical information on the source of the PACs. Table 4 provides PACs for TEEL-0 (i.e., PAC-0), PAC-1, PAC-2, and PAC-3 in units of mass per unit volume (mg/m³) with the ppm to mg/m³ conversion (carried out at 25°C and 760 mmHg) performed before rounding.

The columns presented in Table 4 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.
Source of PACs	Technical comments by the developers of the PAC data set that indicate the source of the data used to derive PAC values. The term "SAR," often in red font, stands for "Structure Activity Relationships." Other abbreviations are defined below or in the introductory material found at: http://www.hss.energy.gov/HealthSafety/WSHP/chem_safety/teel.html/ . 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.

The following information is pertinent to the derivation of hierarchy-based TEEL values:

- Values are restricted by the hierarchy-based TEEL for the next higher category, so that:
TEEL-0 ≤ TEEL-1 ≤ TEEL-2 ≤ TEEL-3.

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

- The most recent available references (at the time of PAC/TEEL derivation) for Permissible Exposure Limits (PELs), Threshold Limit Values (TLVs), Recommended Exposure Limits (RELs), Workplace Environmental Exposure Levels (WEELs) and German limits (MAKs) are used. The most convenient source for these values is *Guide to Occupational Exposure Values - 2007*, compiled by the American Conference of Governmental Industrial Hygienists (see <http://www.acgih.org/Store/ProductDetail.cfm?id=1911>).
- For particulate materials, limits used (in mg/m³) are for total dust, even though limits are sometimes also given for the respirable fraction.
- “PNOS” = Particulates Not Otherwise Specified. This TLV-TWA value is for total dust, and the respirable fraction is assumed to be 30% of total concentration.
- For substances that are in particulate form, all TEEL values have been reduced to a maximum value of 500 mg/m³. This concentration constitutes an upper bound for a stable cloud of respirable dust. The reason for this is that the coagulation rate of particles is a function of the square of the concentration number. Higher concentrations are unstable.
- For a few chemicals whose ERPG-1 value was odor-based, rather than toxicity-based, the PAC-1 value was adjusted to the PEL-STEL, TLV-STEL, or 3 x TLV-TWA value. This is noted in the Comments Column of Table 2 when this substitution is made.
- In the absence of other concentration limits or appropriate toxicity data for a chemical, a few values are based on British, Finnish, Russian, or other guidelines.
- The usual order of use of toxicity data for TEEL-2 and/or TEEL-3 is subordinate to human toxicity data for a particular chemical. A few values depart from the usual guidelines, and are estimates based on existing concentration limits (at other TEEL values) and/or a comparison with similar chemicals and/or a review of available toxicity data. For example, the TEEL-3 value for 1-Bromo-3-chloro-5,5-dimethylhydantoin is estimated from the toxicity-based TEEL-3 for 3-Bromo-1-chloro-5,5-dimethylhydantoin.
- The PACs presented in these tables are toxicity-based and do not take flammability data into consideration in their development. In order to alert users as to the potential for explosion and flammability hazards, Table 2 uses special formatting to indicate the relationship of these values to the lower explosive limit (LEL) of a chemical substance.

Additional information on the chemicals presented in Table 4 is provided in PAC Tables 1, 2, and 3. Definitions of AEGL, ERPG, and TEELs values (-0,-1,-2, and -3) are provided at the beginning of PAC Tables 2 and 3.

Table 4, 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.

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 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1	Acacia; (Gum Arabic)	9000-01-5	200	500	500	500	Rat oral LD50, rat oral TDlo
2	Acenaphthene	83-32-9	0.4	1.25	7.5	250	Rat ip LD50, rat TClo
3	Acenaphthylene	208-96-8	0.06	0.2	1.25	500	Rat ip LD50, rat TClo
4	Acetaldehyde	75-07-0	40	81	486	1,510	AEGL-1, AEGL-1 , AEGL-2 , AEGL-3
5	Acetamide	60-35-5	25	75	500	500	Rat oral LD50, rabbit oral TDlo
6	Acetanilide	103-84-4	0.4	1	7.5	50	Human oral TD lo, human oral LDlo
7	Acetic acid	64-19-7	12	12	86	610	ERPG-1, ERPG-1 , ERPG-2 , ERPG-3
8	Acetic acid ethenyl ester, polymer with 1,1-bis(ethenyloxy) butane and ethenol	27360-07-2	10	30	50	250	Used PNOS default.
9	Acetic acid, 2-propenyl ester	591-87-7	2	6	40	200	Rat LC50
10	Acetic acid, lithium salt	546-89-4	12.5	35	250	500	Mouse oral LDlo.
11	Acetic acid, manganese(2+) salt, tetrahydrate	6156-78-1	0.892	2.68	22.3	500	Mn concentration limits.

AEGLs = bold 12pt font / ERPGs (but not AEGLs) = bold 10pt font

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
12	Acetic acid, manganese(II) salt (2:1)	638-38-0	0.63	9.45	15.7	500	Mn compound concentration limits.
13	Acetic Anhydride	108-24-7	20	20	20	750	PEL-TWA, REL-C, IDLH.
14	Acetone	67-64-1	475	475	7,600	13,500	AEGL-1, AEGL-1 , AEGL-2 , AEGL-3
15	Acetone thiosemicarbazide	1752-30-3	20	60	100	100	LOC, LC50
16	Acetone-d6	666-52-4	524	524	8,390	14,900	Acetone (67-64-1) limits used.
17	Acetonitrile	75-05-8	21.8	21.8	537	1,120	AEGL-1, AEGL-1 , AEGL-2 , AEGL-3
18	Acetonitrile-d3	2206-26-0	75	100	100	750	Used Acetonitrile TEELs.
19	Acetophenone	98-86-2	10	30	50	350	Concentration limits, rat oral LD50
20	Acetoxytriphenylstannane	900-95-8	0.345	0.689	20	50	Concentration limits, rat oral LD50
21	Acetyl bromide	506-96-7	1	3	20	100	Mouse ip LD50
22	Acetyl carbinol; (Acetol (1); 1-Hydroxy-2-propanone)	116-09-6	7.5	25	200	500	Rat oral LD50.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
23	Acetyl chloride	75-36-5	0.0075	0.02	0.15	400	Human TClo, rat oral LD50
24	Acetyl triethyl citrate	77-89-4	6	20	125	500	Mouse ip TD lo, rat oral LD50.
25	Acetylaminofluorene, 2-	53-96-3	0.25	0.75	6	30	Pregnant mouse ip TDlo
26	Acetylaminofluorenone, 2-	3096-50-2	0.75	2.5	15	75	Rat oral 32 week TDlo
27	Acetylene	74-86-2	2,500	2,500	2,500	6,000	REL-C, human LClo
28	Acrolein	107-02-8	0.0687	0.0687	0.229	3.21	AEGL-1, AEGL-1 , AEGL-2 , AEGL-3
29	Acrylamide	79-06-1	0.3	7.5	60	60	Concentration limits
30	Acrylic acid	79-10-7	4.42	4.42	135	530	AEGL-1, AEGL-1 , AEGL-2 , AEGL-3
31	Acrylic acid polymers; (Acrylic polymer or resin)	9003-01-4	10	30	200	500	Rat oral LD50
32	Acrylonitrile	107-13-1	4	9.98	124	217	PEL-TWA, AEGL-1 , AEGL-2 , AEGL-3
33	Acrylyl chloride; (Acryloyl chloride)	814-68-6	0.15	0.4	0.75	35	LOC, mouse LC50

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
34	Adipic acid	124-04-9	5	5	5	125	TLV-TWA, rat oral TDlo, rat ip LD50
35	Adipic acid-TDI	68609-57-4	10	30	50	250	Used PNOS default.
36	Adiponitrile	111-69-3	7.5	15	15	750	TLV-TWA, LOC, rat 240 min LC50
37	Aerosol, A-102; (Poly(oxy-1,2-ethanediyl), alpha-(3-carboxy-1-oxo-3-sulfopropyl)-omega-(dodecyloxy)-, -disodium salt)	39354-45-5	125	400	500	500	Rat oral LD50.
38	Agar	9002-18-0	500	500	500	500	Rat oral LD50, rat 4 week oral TDlo
39	Agarose, type VII (low gelling temperature)	9012-36-6	10	30	50	250	PNOS TLV-TWA
40	Alamine 336	68814-95-9	20	60	500	500	Rat LD50.
41	Albumin (bovine)	9048-46-8	150	500	500	500	Rat iv 90 day TDlo, rat iv LDlo
42	Alcohol oxidase	9073-63-6	10	30	50	250	PNOS default.
43	Alcohols, C6-C12 (N.O.S.)	68603-15-6	10	30	50	250	Default TLV-TWA for chemical class
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	Concentration limits.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
45	Aldrithiol-2: (2,2'-Dithiodipyridene)	2127-03-9	10	30	50	250	Used PNOS default.
46	Aliquat 336; (Adogen 464; Quaternary ammonium compounds, tri(C8-10)-alkylmethyl, chlorides)	63393-96-4	30	75	500	500	Rat LClo
47	Alizarin; (1,2-Dihydroxyanthraquinone; Turkey red oil)	72-48-0	1.25	4	25	125	Wild bird oral LD50.
48	Alizarine Red S, Monohydrate; (Sodium alizarin-3-sulfonate)	130-22-3	0.6	1.5	12.5	60	Mouse intravenous LD50.
49	Alkanes, C4-12-	68333-81-3	1,250	1,500	1,500	7,500	Octane concentration limits.
50	Alkenyl dimethylethyl ammonium bromide; (Aliphatic hydrocarbon)	z-0108	2	6	40	200	Rat oral LD50
51	Alkyd resins and rosin	66070-62-0	10	30	50	250	PNOS TLV-TWA
52	Alkyl benzenes (C8-C9)	z-0109	10	30	50	250	Default TLV-TWA for chemical class
53	Alkyl dimethylbenzyl ammonium chloride; (Benzalkonium chloride)	8001-54-5	7.5	20	100	100	Women oral TDlo, rat oral LD50
54	Alkylamines (includes nitrogen mustard, triethylmelamine, etc.)	63231-48-1	10	30	50	250	Default TLV-TWA for chemical class
55	Alkylbenzene (C10-C16)	68648-87-3	10	30	50	500	PNOS TLV-TWA, rabbit skin LDlo

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
56	Allene; (1,2-Propadiene)	463-49-0	60	200	1,250	6,000	Default LC50 based on HR
57	Allyl alcohol	107-18-6	4	4.99	9.97	47.5	PEL-TWA, AEGL-1, AEGL-2, AEGL-3
58	Allyl Bromide; (3-Bromopropene)	106-95-6	20	60	400	2,000	Rat LC50
59	Allyl chloride	107-05-1	3	9.38	125	938	ERPG-1, ERPG-1, ERPG-2, ERPG-3
60	Allyl chlorocarbonate	2937-50-0	0.05	0.15	0.75	0.75	Mouse TClo, rat LC50.
61	Allyl isothiocyanate; (Mustard oil)	57-06-7	1.25	4	10	50	WEEL-STEL, Rat LD50.
62	Allylamine	107-11-9	0.3	0.98	7.7	42	AEGL-1, AEGL-1, AEGL-2, AEGL-3
63	Allylmagnesium bromide	1730-25-2	10	30	50	250	PNOS default used.
64	Alpha,alpha,4-trimethyl-3-cyclohexene-1-methanol, (S)-; (alpha-Terpineol)	10482-56-1	125	350	500	500	Rat oral TD lo and LD50.
65	Alphahydroxybenzeneacetic acid, (+-)-; (DL-mandelic acid)	611-72-3	15	50	350	500	Normal Mandelic acid rat oral LD50.
66	Aluminon	569-58-4	0.0004	0.001	0.0075	500	Human male 60 day repro. TDlo, rat oral LD50

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
67	Aluminum (powder)	7429-90-5	15	30	50	250	TWA concentration limits for Al total dust
68	Aluminum acetate, basic	7360-44-3	8.9	26.7	44.5	200	Aluminum soluble salts TLV-TWA.
69	Aluminum carbide	1299-86-1	2.67	8	13.3	60	TWA concentration limits for Al soluble salts
70	Aluminum chloride	7446-70-0	9.88	9.88	60	500	TLV-TWA Al soluble salts, rat 60 day oral TDlo, rat oral LD50
71	Aluminum chloride hexahydrate	7784-13-6	17.9	25	150	500	TLV-TWA Al soluble salts, rat oral LD50
72	Aluminum fluoride	7784-18-1	6.22	6.22	7.5	40	TLV-TWA Al soluble salts, rat oral 28 day TDlo, rat oral LD50
73	Aluminum grey; (Chromium compound; Acid black 60)	12218-95-0	8.44	25.3	42.2	422	Concentration limits for Cr III compounds.
74	Aluminum hexafluorosilicate	17099-70-6	3.51	10.5	17.6	351	PEL-TWA and IDLH for fluorides
75	Aluminum hydroxide	21645-51-2	1.5	4.5	125	125	MAK-TWA concentration limits, child 4 day oral TDlo, rat ip LDlo
76	Aluminum oxide hydrate	1333-84-2	15	30	50	250	Alumina concentration limits.
77	Aluminum oxide; (Alumina)	1344-28-1	15	15	15	25	PEL-TWA, 60 min EEGL, 30 min EEGL.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
78	Aluminum phosphate; (Phosphoric acid, aluminum salt (1:1), solution)	7784-30-7	9.04	27.12	500	500	TLV-TWA Al soluble salts, rat oral LD ₅₀
79	Aluminum phosphate; (Phosphoric acid, aluminum salt)	13530-50-2	23.8	71.4	119	500	Al soluble salts TLV-TWA.
80	Aluminum phosphide	20859-73-8	10.7	10.7	20	20	TLV-TWA Al, LOC, human oral LD ₅₀
81	Aluminum potassium sulfate	10043-67-1	19.1	57.4	95.7	100	TLV-TWA Al soluble salts
82	Aluminum potassium sulfate, dodecahydrate	7784-24-9	35.2	105	176	500	TLV-TWA Al concentration limits
83	Aluminum sulfate	10043-01-3	12.7	38	63.4	500	TLV-TWA Al soluble salts concentration limits
84	Aluminum yellow 4A; (Chromium compound; Acid yellow 39)	10343-58-5	4.77	14.3	25	239	Concentration limits for Cr III compounds.
85	Aluminum(III) isopropylate	555-31-7	15.1	45.4	75.7	500	Al soluble salts TLV-TWA, rat oral LD ₅₀ .
86	Aluminum(III) nitrate (1:3)	13473-90-0	15.8	47.4	350	500	TLV-TWA Al soluble salts, rat oral LD ₅₀
87	Aluminum(III) nitrate nonahydrate (1:3:9)	7784-27-2	27.8	27.8	150	500	TLV-TWA Al soluble salts, rat oral LD ₅₀
88	Aluminum(III) silicate (2:1); (Kyanite; Oil-dri)	1302-76-7	6.01	18	75	400	TLV-TWA Al concentration limits

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
89	Amberlite IR-120(PLUS) ion-exchange resin	78922-04-0	10	30	50	200	PNOS TLV-TWA, Amberlite-LA-1 rat ip LD50
90	Amberlite IR-120plus ion-exchange resin, sodium form; (Cation exchange resin)	9002-23-7	7.5	25	150	500	HHR =2, rat LD50 = 2000 mg/kg assumed.
91	Amberlite IRA-400(Cl); (Amberlite IRA-400, ion-exchange resin)	9002-24-8	10	30	50	250	Used PNOS default.
92	Amberlite IRA-400(CL); (Ion exchange resin)	122560-63-8	10	30	50	250	Used PNOS default.
93	Amberlite MB-1 ion-exchange resin; (Amberlite MB-150)	100915-96-6	10	30	50	200	PNOS TLV-TWA, Amberlite-LA-1 rat ip LD50
94	Amberlite XAD-16, -7, -4 resin	104219-63-8	10	30	50	200	PNOS TLV-TWA, Amberlite-LA-1 rat ip LD50
95	Amberlite XAD-2 resin, purified	9060-05-3	10	30	50	200	PNOS TLV-TWA, Amberlite-LA-1 rat ip LD50
96	Amberlite ZAD-16; (Nonionic polymeric absorbent)	9003-69-4	7.5	25	150	500	Rat oral LD50, based on HHR.
97	Amberlite; (Amberlite XAD7HP)	37380-43-1	10	30	50	200	PNOS TLV-TWA, Amberlite-LA-1 rat ip LD50
98	Amberlyst 15 ion-exchange resin	9037-24-5	10	30	50	250	PNOS TLV-TWA
99	Amino-1,3-naphthalenedisulfonic acid, 7-	86-65-7	3.5	10	75	400	Mouse 8W ip TDlo

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			TEEL-0	PAC-1	PAC-2	PAC-3	
100	Amino-1-propanol, 3-	156-87-6	0.015	0.04	0.3	500	Rat oral LD50
101	Amino-2-(hydroxymethyl)-1,3-propanediol, 2-, acetate salt; (Trizma acetate)	6850-28-8	25	75	500	500	Rat oral LD50.
102	Amino-2-methyl-2-propanol, 1-	2854-16-2	10	30	200	500	Mouse oral LD50
103	Amino-4,6-dinitrotoluene, 2-	35572-78-2	6	15	125	500	Rat oral LD50
104	Aminoacetaldehyde diethyl acetal (2,2-diethoxyethylamine)	645-36-3	7.5	25	150	500	Estimated rat oral LD50.
105	Aminoacetaldehyde dimethyl acetal (2,2-dimethoxyethylamine)	22483-09-6	10	30	50	250	PNOS default used.
106	Aminoanthraquinone, 2-	117-79-3	7.5	25	150	500	Rat 78W ip TDlo, rat ip LD50
107	Aminobenzoic acid, p-	150-13-0	5	15	100	500	WEEL-TWA, Rat 22 day TD lo preg, rat oral LD50.
108	Aminobutyl)diethoxymethylsilane, (4-	3037-72-7	2	6	45	45	LOC, rat sk LD50
109	Aminodiphenyl, p-	92-67-1	0.5	1.5	10	200	Rat 48W oral TDlo, rat oral LD50
110	Aminoethoxy)ethanol, 2(2-	929-06-6	12.5	35	250	500	Rat oral LD50.

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			TEEL-0	PAC-1	PAC-2	PAC-3	
111	Aminoethylethanolamine	111-41-1	12.5	35	250	500	Rat oral LD50.
112	Aminoethylpiperazine, n-	140-31-8	2.5	7.5	50	500	Rat male 28D pre TDlo, rat oral LD50
113	Aminoheptane, 3-; (3-Heptylamine)	28292-42-4	0.3	0.75	6	30	Mouse ip LD50
114	Aminoiminomethyl)urea sulfate(2:1), (	591-01-5	10	30	50	250	Used PNOS default.
115	Aminophenol, 2-; (Aminophenol, o-)	95-55-6	0.5	1.5	10	500	Ham ip TDlo, rat oral LD50
116	Aminophenol, M-	591-27-5	1	3	20	125	Rat 17 week TClo, rat oral LD50.
117	Aminopropiophenone, 4-	70-69-9	1	3.5	5.6	75	LOC, rat oral LD50
118	Aminopropylmethyldiethoxysilane, 3-	3179-76-8	15	50	400	500	Rat oral LD50.
119	Aminopropyltriethoxysilane; (3-(Triethoxysilyl)-1-propanamine)	919-30-2	6	15	125	500	Rat TClo, rat LD50.
120	Aminopterin; (Aminopteridine)	54-62-6	5	15	25	25	LOC, mouse oral LD50
121	Aminopyrazine	5049-61-6	2	6	10	20	SAR

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
122	Aminopyridine, 4-; (4-Pyridinamine)	504-24-5	4	12.5	20	20	LOC, human LDlo
123	Amiton oxalate	3734-97-2	0.6	1.5	3	3	LOC, rat oral LD50
124	Amiton; (O,O-Diethyl-S-(2-diethylaminoethyl) thiophosphate)	78-53-5	0.6	2	3.3	3.3	LOC, rat oral LD50
125	Amitrole	61-82-5	0.2	0.6	125	500	TLV-TWA, tox ratio, rat oral LD50
126	Ammonia	7664-41-7	15	20.9	111	766	TLV-TWA, AEGL-1, AEGL-2, AEGL-3
127	Ammonium acetate	631-61-8	2.5	7.5	50	250	Rat ip LD50
128	Ammonium aluminum fluoride; (Triammonium hexafluoroaluminate)	7784-19-2	4.28	4.28	4.28	15	F PEL-TWA, mouse iv LD50
129	Ammonium benzoate	1863-63-4	3.5	10	75	350	Rat oral LD50
130	Ammonium bicarbonate	1066-33-7	2	6	40	200	Mouse iv LD50
131	Ammonium bisulfate; (Ammonium hydrogen sulfate)	7803-63-6	0.025	0.075	0.5	2.5	Rabbit 60 min. TClo
132	Ammonium bisulfite; (Ammonium hydrogen sulfite)	10192-30-0	10	10	10	10	TLV-TWA PNOS

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
133	Ammonium bromide	12124-97-9	10	35	200	500	Rat oral LD50.
134	Ammonium carbamate; (Carbamic acid, ammonium salt)	1111-78-0	0.3	1	6	35	Rat iv LD50
135	Ammonium carbonate	506-87-6	0.75	2.5	15	75	Mouse iv LD50
136	Ammonium chloride	12125-02-9	10	20	500	500	TLV-TWA & STEL, rat oral LD50
137	Ammonium chromate	7788-98-9	0.0146	0.438	7.5	43.9	Cr(VI) concentration limits
138	Ammonium citrate	7632-50-0	10	10	30	150	PNOS TLV-TWA, rat oral LD50
139	Ammonium citrate tribasic	3458-72-8	10	30	50	250	Used PNOS default.
140	Ammonium citrate, dibasic	3012-65-5	10	10	10	10	Used PNOS default.
141	Ammonium dichromate	7789-09-5	0.0121	0.363	7.5	36.4	Cr(VI) concentration limits
142	Ammonium dihydrogen phosphate; (Monoammonium phosphate)	7722-76-1	15	50	350	500	Rat oral LD50, based on other ammonium phosphates
143	Ammonium ferrous sulfate hexahydrate	7783-85-9	3.19	9.56	15.9	500	Fe concentration limits, rat oral LD50

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
144	Ammonium fluoborate	13826-83-0	3.45	3.45	6	20	F TLV-TWA, human TClo and LClo, ex HSDB
145	Ammonium fluoride	12125-01-8	4.88	4.88	4.88	12.5	F TLV-TWA,, rat TClo, rat ip LD50
146	Ammonium formate	540-69-2	10	30	50	500	PNOS TLV-TWA, mouse oral LD50
147	Ammonium hexachlorohydrate (III)	z-0001	10	30	50	250	Used PNOS default.
148	Ammonium hexafluorosilicate; (Ammonium silicofluoride)	16919-19-0	3.91	11.7	20	30	F concentration limits, mouse oral LD50
149	Ammonium hydrogen fluoride; (Ammonium bifluoride)	1341-49-7	3.75	3.75	3.75	3.75	F concentration limits
150	Ammonium hydrogen oxalate hemihydrate	37541-72-3	7.5	25	150	500	Estimated rat oral LD50.
151	Ammonium hydroxide	1336-21-6	2.5	7.5	60	150	Human TClo and LClo.
152	Ammonium iodide	12027-06-4	4	12.5	75	400	Human oral LDlo ex HSDB
153	Ammonium lactate	52003-58-4	10	30	50	250	Used PNOS default.
154	Ammonium lignin sulfonate	8061-53-8	10	30	50	250	Used PNOS default.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
155	Ammonium molybdate(VI) tetrahydrate	12054-85-2	60.7	60.7	60.7	150	Soluble Mo compounds PEL-TWA, rat oral LD50. IDLH not used.
156	Ammonium molybdophosphate	12026-66-3	8.15	24.4	40.7	200	Mo TLV-TWA; IDLH not used
157	Ammonium nickel sulfate	15699-18-0	4.89	4.89	5	48.9	Nickel concentration limits
158	Ammonium nitrate	6484-52-2	10	10	10	500	PNOS, rat oral TD lo, rat oral LD50
159	Ammonium oxalate monohydrate	5972-73-6	1.5	4	30	150	Rat oral LD50.
160	Ammonium oxalate; (Ammonium oxalate hydrate)	6009-70-7	1.5	4	30	150	Rat oral LD50.
161	Ammonium oxalate; (Ethanedioic acid, diammonium salt)	1113-38-8	0.15	0.5	4	20	Rat oral TD lo.
162	Ammonium pentaborate	12007-89-5	10	30	50	250	Used PNOS default.
163	Ammonium perchlorate	7790-98-9	5	15	100	500	Rabbit oral TD lo, rat oral LD50.
164	Ammonium permanganate	13446-10-1	0.2	3	5	500	Manganese concentration limits.
165	Ammonium persulfate	7727-54-0	0.1	0.3	20	100	TLV-TWA, rat ip LD50.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
166	Ammonium phosphate dibasic	7783-28-0	10	30	50	250	Used PNOS default.
167	Ammonium picrate	131-74-8	10	30	50	250	Used PNOS default.
168	Ammonium polyacrylate	9003-03-6	10	30	50	250	Used PNOS default.
169	Ammonium sulfamate	7773-06-0	10	30	50	500	TLV-IWA, NH3 IDLH.
170	Ammonium sulfate	7783-20-2	40	125	500	500	Human oral TD lo, rat oral LD50.
171	Ammonium sulfide	12135-76-1	7.5	25	40	40	Human 30 min TClo, human 30 min LC lo.
172	Ammonium sulfite	10196-04-0	10	10	10	10	Used PNOS default.
173	Ammonium sulfite monohydrate	7783-11-1	10	30	50	250	PNOS default used, irritation ignored.
174	Ammonium tartrate	14307-43-8	10	10	10	10	Used PNOS default.
175	Ammonium tartrate; (Diammonium tartrate)	3164-29-2	1.5	5	40	200	Rat subcutaneous LD50.
176	Ammonium tetraethyl bromide; (Tetraethyl ammonium bromide)	71-91-0	1.25	4	30	40	Mouse ip TD lo, rat ip LD50.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
177	Ammonium tetramethyl bromide; (Tetramethylammonium bromide)	64-20-0	0.2	0.6	4	20	Rat oral LD50.
178	Ammonium thiocyanate	1762-95-4	12.5	35	200	200	Human oral TD lo, mouse oral LD50.
179	Ammonium thiosulfate; (Ammonium hyposulfite)	7783-18-8	10	30	50	500	PNOS, rat 240 min LG lo.
180	Ammonium tungstate(VI)	11120-25-5	1.38	4.14	6.9	6.9	TLV-TWA, TLV-STEL.
181	Ammonium vanadate; (Ammonium vanadium oxide; Ammonium metavanadate)	7803-55-6	0.0322	0.0965	0.322	3.5	As vanadium pentoxide, TLV-TWA and PEL-C, rat 240 min LC50.
182	Ammonium, hexadecyltrimethyl-, bromide; (Hexadecyltrimethylammonium bromide)	57-09-0	0.035	0.1	0.75	150	Mousw ip TD lo, rat oral LD50.
183	Ammonium-d4 deuterioxide	13550-49-7	6	20	150	750	MW-adjusted ammonia ERPGs
184	Amosite	12172-73-5	0.005	0.05	40	200	PEL-TWA, PEL-STEL, rat TClo.
185	Amphetamine; (Benzedrine)	300-62-9	4	12.5	20	20	LOC, human LDlo.
186	Amyl acetate	628-63-7	500	500	500	5,000	PEL-TWA, human TClo, IDLH.
187	Amyl alcohol; (1-Pentanol)	71-41-0	350	350	350	350	WEEL-TWA. Human TClo, human oral LDlo.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
188	Amyl methyl ether, tert-; (TAME)	994-05-8	75	600	600	600	TLV-TWA, rat 360 min TClo preg, rat LD50 minimum.
189	Amylamine, n-; (1-Pentylamine)	110-58-7	0.3	0.75	6	30	Rat ip LDlo.
190	Anhydrone; (Magnesium perchlorate)	10034-81-8	6	15	125	500	Rat oral LD50.
191	Aniline	62-53-3	15	30.5	45.7	76.1	PEL-TWA, AEGL-1, AEGL-2, AEGL-3
192	Anisidine, o-	90-04-0	0.5	1.5	2.5	50	PEL-TWA, IDLH.
193	Anisidine, p-	104-94-9	0.5	1.5	2.5	50	PEL-TWA, IDLH.
194	Anisole; (Anisole anhydrous; Methoxybenzene)	100-66-3	4	12.5	75	400	Mouse 120 min LC50.
195	Anthracene	120-12-7	1.5	4	30	150	Rat oral TD lo, mouse ip LD50.
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	Mouse oral LD50.
197	Anthranilic acid	118-92-3	4	12.5	75	500	Mouse preg sc TD lo, rat oral LD50
198	Anthraquinone	84-65-1	10	30	50	500	PNOS, rat 240 min LC50

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
199	Antimony	7440-36-0	0.5	1.5	50	50	PEL-TWA, IDLH
200	Antimony oxide	1309-64-4	0.599	1.8	4	59.9	As Sb, PEL-TWA, IDLH
201	Antimony pentachloride	7647-18-9	1.23	3.68	6.14	123	As Sb, PEL-TWA, IDLH
202	Antimony pentafluoride	7783-70-2	0.89	0.89	2.7	89	As Sb, PEL-TWA, LOC, IDLH
203	Antimony pentasulfide	1315-04-4	0.829	2.49	4.15	82.9	As Sb, PEL-TWA, IDLH
204	Antimony potassium tartrate trihydrate	28300-74-5	1.31	3.92	6.53	131	As Sb, PEL-TWA, IDLH
205	Antimony trichloride	10025-91-9	0.937	0.937	0.937	93.7	As Sb, PEL-TWA, IDLH
206	Antimony trifluoride	7783-56-4	0.734	0.734	4	73.4	As Sb, PEL-TWA, IDLH
207	Antimycin A	1397-94-0	0.35	1	1.8	12.5	LOC, rat oral LD50
208	Antioxidant G-16 (most toxic antiox)	61373-87-3	10	30	50	125	PNOS, mouse ip LD50.
209	Aqua regia (75% hydrochloric + 25% nitric acid)	8007-56-5	3.5	6	75	400	HCl and HNO ₃ concentration limits

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
210	Arginine, L-	74-79-3	10	30	50	250	Used PNOS default.
211	Argon	7440-37-1a	100,000	100,000	350,000	600,000	Simple asphyxiant
212	Argon, cryogenic	7440-37-1b	100,000	100,000	350,000	600,000	Simple asphyxiant
213	Aromatic hydrocarbon solvents; (High flash naphtha distillates; Solvent naphtha (petroleum), light aromatic)	64742-95-6	2,000	3,500	3,500	3,500	Mouse TClo, rat oral LD50.
214	Aromatic isocyanate mixture "SWD 305A"	z-0111	1.25	4	20	125	Calculated from mixture ingredients.
215	Arsenic (& inorganic compounds)	1327-53-3	0.01	0.03	5	5	PEL-TWA, LOC, IDLH.
216	Arsenic (organic compounds as As)	7440-38-2	0.5	1.5	2.5	350	PEL-TWA, pregnant rat TD lo, rat oral LD50.
217	Arsenic acid	1327-52-2	0.0189	0.0568	3	55	PEL-TWA, IDLH, as As.
218	Arsenic acid; (o-arsenic acid)	7778-39-4	0.0189	0.4	3	9.5	PEL-TWA, IDLH, as As.
219	Arsenic pentoxide	1303-28-2	0.0153	1	7.67	7.67	PEL-TWA, IDLH, as As, LOC.
220	Arsenious acid	13464-58-9	0.0168	0.2	1.4	8.41	PEL-TWA, IDLH, as As, LOC.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
221	Arsenous trichloride	7784-34-1	0.15	0.5	10	75	PEL-TWA, IDLH, as As, LOC.
222	Arsine	7784-42-1	0.15	0.15	0.542	1.59	PEL-TWA, PEL-TWA, AEGL-2, AEGL-3
223	Asbestos	1332-21-4	0.005	0.5	0.5	2.5	PEL-TWA, PEL-C
224	Asbestos (Chrysotile)	12001-29-5	0.005	0.5	50	250	PEL-TWA, PEL-C, rat ip LDlo.
225	Ascaridole	512-85-6	0.75	2.5	20	75	Mouse skin TD lo, rat oral LD50.
226	Ascarite; (Asbestos, 1332-21-4)	81133-20-2	0.005	0.5	0.5	2.5	Used asbestos limits
227	Ascorbic acid	50-81-7	60	200	500	500	Human iv TD lo, woman iv LDlo.
228	Asphalt; (Bitumen)	8052-42-4a	0.5	0.75	5	25	TLV-TWA, REL-C
229	Auramine; (4.4'-(Imidocarbonyl)bis(n,n-dimethylamine) monohydrochloride)	2465-27-2	2.5	7.5	60	60	Rat oral 87 week TD lo, rat ip LD50
230	Azaserine; (L-Serine, diazoacetate (ester))	115-02-6	0.0125	0.04	0.25	75	Pregnant rat oral TD lo, rat oral LD50.
231	Azinphos ethyl; (Ethyl guthion)	2642-71-9	0.75	2	3.9	150	LOC, rat 240 min LC50.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
232	Azinphos methyl; (GuthionR)	86-50-0	0.2	0.6	0.7	10	PEL-TWA, LOC, rat 60 min LC50.
233	Azirdine; (ethylenimine; poly(ethyleneimine))	9002-98-6	5	15	100	500	Rat oral LD50.
234	Azobis(2-methylpropionitrile), 2,2'-	78-67-1	7.5	25	150	300	Rat oral TD lo, rat oral LD50.
235	Azodicarbamide; (Azodicarbonamide)	123-77-3	40	125	200	200	Rat TClo, rat ip LD50.
236	Bacto peptone	51142-18-8	10	30	50	250	Used PNOS default.
237	Barbituric acid	67-52-7	2	6	40	200	Mouse ip LD50.
238	Barium	7440-39-3	0.5	1.5	50	250	PEL-TWA, rat oral TD lo.
239	Barium acetate; (Barium acetate anhydrous)	543-80-6	0.93	2.79	4.65	93	Ba sol compounds as Ba: PEL-TWA, IDLH.
240	Barium carbonate	513-77-9	0.3	0.75	6	500	Human oral TD lo, human oral LDlo.
241	Barium chloride	10361-37-2	0.5	1.5	15	50	Ba sol compounds as Ba: PEL-TWA, IDLH.
242	Barium chloride dihydrate	10326-27-9	0.889	2.67	4.45	88.9	Ba sol compounds as Ba: PEL-TWA, IDLH.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
243	Barium chromate	10294-40-3	0.0246	0.737	1.25	73.7	Chromium(VI) concentration limits.
244	Barium cyanide	542-62-1	0.69	2.07	3.5	69	Ba sol compounds as Ba: PEL-TWA, IDLH.
245	Barium dioxide; (Barium peroxide)	1304-29-6	0.617	0.617	1.5	7.5	Ba conc limits as Ba: PEL-TWA, mouse sc LD50.
246	Barium diphenylamine sulfonate	6211-24-1	2.31	6.92	11.5	231	Ba sol compounds as Ba: PEL-TWA, IDLH.
247	Barium fluoride	7787-32-8	0.638	1.92	15	100	Ba sol compounds as Ba: PEL-TWA.
248	Barium hydrogen phosphate; (Barium phosphate dibasic)	10048-98-3	0.849	2.55	4.25	20	Ba sol compounds as Ba: PEL-TWA.
249	Barium hydroxide	17194-00-2	0.624	1.87	3.12	100	Ba sol compounds as Ba: PEL-TWA.
250	Barium hydroxide octahydrate	12230-71-6	1.15	3	20	115	Ba sol compounds as Ba: PEL-TWA, IDLH.
251	Barium metaborate	13701-59-2	10	30	200	500	Rat oral TD lo.
252	Barium nitrate	10022-31-8	0.952	2.5	15	95.2	Ba sol compounds as Ba: PEL-TWA, IDLH.
253	Barium nitrite	13465-94-6	0.835	2.5	4.17	20	Ba sol compounds as Ba: PEL-TWA.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
254	Barium oxide	1304-28-5	0.558	1.67	2.79	55.8	Ba sol compounds as Ba: PEL-TWA, IDLH.
255	Barium permanganate	7787-36-2	1.37	20.5	34.1	34.1	Mn cmpnd conc limits as Mn: PEL-TWA, human oral LD50.
256	Barium phosphate	13466-20-1	0.788	2.36	4	20	Ba sol compounds as Ba: PEL-TWA.
257	Barium stearate	6865-35-6	10	30	200	500	Rat oral LD50
258	Barium sulfate	7727-43-7	15	30	350	500	PEL-TWA, rat implant TD lo.
259	Basic Green 4; (Aizen malachite green)	569-64-2	0.35	1	6	35	Mouse oral LD50.
260	Basic Red 1; (Rhodamine 6G extra base)	989-38-8	0.025	0.075	0.6	2.5	Mouse ip TD lo, mouse ip LD50.
261	Bathophenanthroline	1662-01-7	75	250	500	500	Rat oral LD50 based on assumed HHR = 1.
262	Bentonite; (Clay absorbent)	1302-78-9	10	30	50	50	PNOS, mouse oral TD lo, rat iv LD50.
263	Benz(e)acephenanthrylene; (Benzo(b)fluoroanthene)	205-99-2	0.2	0.6	4	20	Rat implant TD lo.
264	Benzal chloride	98-87-3	0.4	1.25	2.3	500	LOC, rat oral LD50.

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The "Source of PACs" column will be enhanced in the near future to improve the clarity and completeness of its information.

Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
265	Benzaldehyde	100-52-7	7.5	15	15	600	WEEL-TWA, -STEL, human TClo, human LDlo.
266	Benzamide	55-21-0	3	10	60	350	Rat ip LD50.
267	Benzenamine, sulfate (2:1)	542-16-5	10	30	50	250	Used PNOS default.
268	Benzene	71-43-2	3	166	2,550	12,800	PEL-TWA, AEGL-1, AEGL-2, AEGL-3
269	Benzene D6; (Deuterated benzene)	1076-43-3	3.5	172	516	3,440	Benzene concentration limits used
270	Benzene hexachloride; (Hexachlorocyclohexane, mixed isomers)	608-73-1	0.15	0.5	4	40	Human TClo, rat oral LD50.
271	Benzene, 1-(chloromethyl)-4-nitro-; (p-Nitrobenzyl chloride)	100-14-1	5	15	28	125	LOC, rat oral LD50.
272	Benzeneearsonic acid; (Phenylarsonic acid)	98-05-5	0.27	0.27	0.27	0.27	PEL-TWA as As, LOC, mouse oral LD50.
273	Benzenesulfonic acid chloride; (Benzenesulfonyl chloride)	98-09-9	0.5	1.5	200	200	PEL-TWA as As, LOC, rat 60 min LC lo.
274	Benzenesulfonic acid, 4-chloro	98-66-8	2	6	40	200	Rat oral LD50 minimum.
275	Benzenesulfonic acid, 5-chloro-2	z-0130	10	30	50	250	Used PNOS default.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
276	Benzenetetracarboxylic dianhydride, 1,2,4,5-	89-32-7	1.5	5	15	15	Rat oral 30 day TD lo, rat 240 min LC lo.
277	Benzenethiol; (Thiophenol; Phenyl mercaptan)	108-98-5	1.25	1.5	12.5	15	TLV-TWA, LOC, rat 240 min LC50.
278	Benzidene	92-87-5	0.15	0.5	3.5	125	Human TClo, rat oral LD50.
279	Benzo(a)anthracene	56-55-3	0.1	0.3	2	15	Mouse skin TD lo, mouse iv LDlo.
280	Benzo(a)pyrene; (Coal tar pitch volatiles)	50-32-8	0.2	0.6	15	80	PEL-TWA, IDLH, pregnant rat ip TD lo.
281	Benzo(ghi)perylene	191-24-2	10	30	50	250	Used PNOS default.
282	Benzo(k)fluoranthene	207-08-9	0.2	0.6	4	20	Rat implant TD lo.
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	Estimated HHR and rat oral LD50.
284	Benzoic acid	65-85-0	4	12.5	75	400	Human oral LDlo.
285	Benzoic acid, sodium salt	532-32-1	100	350	500	500	Rat oral TD lo, rat oral LD50.
286	Benzoin oxime	441-38-3	0.6	1.5	12.5	60	Mouse ip LD50

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
287	Benzonitrile	100-47-0	4	12.5	92.7	236	AEGL-2/21, AEGL-2/7, AEGL-2, AEGL-3.
288	Benzophenone	119-61-9	0.5	1.5	350	500	WEEL-TWA, rat oral TD lo, mouse oral LD50.
289	Benzoquinone, p-; (Quinone)	106-51-4	0.4	1.25	2	100	PEL-TWA, IDLH, mouse skin TD lo.
290	Benzothiazole	95-16-9	5	15	100	150	Rat oral TD lo, rat oral LD50.
291	Benzotriazole	95-14-7	0.025	0.075	0.5	250	Rat oral 26 week TD lo, rat oral LD50.
292	Benzotrifluoride	98-08-8	6.41	15	125	500	As fluoride, PEL-TWA, IDLH.
293	Benzoyl chloride	98-88-4	1.7	1.7	28.75	115	ERPGs
294	Benzoyl peroxide	94-36-0	5	5	12.5	500	PEL-TWA, IDLH, mouse skin TD lo.
295	Benzyl acetate	140-11-4	60	60	60	150	TLV-TWA, human TClo, cat 480 min LC50.
296	Benzyl alcohol	100-51-6	40	250	600	600	WEEL-TWA, rat TD lo, rat 480 min LC lo.
297	Benzyl aminopurine, 6-; (6-Benzyladenine)	1214-39-7	5	15	100	500	Rat TD lo, rat LC50, 240 min assumed.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
298	Benzyl benzoate	120-51-4	12.5	35	250	500	Rabbit 13 week skin TD lo, rat oral LD50.
299	Benzyl chloride	100-44-7	5.2	5.2	53	260	PEL-TWA, ERPG-1, ERPG-2, ERPG-3.
300	Benzyl chloroformate; (Carbobenzoxy chloride)	501-53-1	0.6	1.5	12.5	60	Rat 240 min LC50.
301	Benzyl cyanide; (Phenylacetonitrile)	140-29-4	0.2	0.6	4.3	30	LOC, rat 120 min LC50.
302	Benzyl trichloride; (Trichloromethylbenzene)	98-07-7	0.1	0.1	7	25	LOC, rat 240 min LC50.
303	Benzylamine	100-46-9	2.5	7.5	50	250	Mouse ip LD50
304	Benzylbutylester phthalic acid; (Benzyl butyl phthalate)	85-68-7	5	15	500	500	UK OEL-TWA, rat TClo, rat oral LD50.
305	Benzyl dimethylamine; (Dimethylbenzylamine, n,n-; BDMA)	103-83-3	1	3	20	200	Rat TClo, rat 120 min LC50.
306	Benzyl dimethyloctadecylammonium chloride; (Dimethyloctadecylbenzylammonium chloride)	122-19-0	5	15	100	500	Rat oral LD50.
307	Benzylmagnesium chloride	6921-34-2	1.5	5	35	150	Assumed HHR =3, used default rat oral LD50.
308	Benzyltrimethylammonium hydroxide; (Triton b)	100-85-6	0.1	0.35	2.5	12.5	Mouse subcutaneous LDlo.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
309	Beryllium	7440-41-7	0.002	0.005	0.025	0.1	PEL-TWA, ERPGs
310	Beryllium chloride	7787-47-5	0.0177	0.0443	0.0443	35.5	PEL-TWA, PEL-C, IDLH, as Be.
311	Beryllium fluoride	7787-49-7	0.0104	0.0261	0.0261	20.9	PEL-TWA, PEL-C, IDLH, as Be.
312	Beryllium hydroxide	13327-32-7	0.0095	0.0239	0.239	19.1	PEL-TWA, PEL-C, IDLH, as Be.
313	Beryllium nitrate	13597-99-4	0.0295	0.0738	7.38	59	PEL-TWA, PEL-C, IDLH, as Be.
314	Beryllium oxide	1304-56-9	0.0056	0.0139	1.39	11.1	PEL-TWA, PEL-C, IDLH, as Be.
315	Betaine, anhydrous; (Glycine betaine)	107-43-7	40	125	500	500	Rat ip TD lo, mouse subcutaneous LD50.
316	Bicyclo(2.2.1)heptane-2-carbonitrile, 5-chloro-6-(((methylamino)carbonyl)oxy)imino)-, (1s-(1-alpha,2-beta,4-alpha,5-alpha,6E))-.	15271-41-7	3.5	10	19	19	LOC, rat oral LD50.
317	Bioxirane, 2,2-; (1,2:3,4-Diepoxybutane)	1464-53-5	0.15	0.5	3.5	35	LOC, rat 240 min. LC50
318	Biphenylol, 4-	92-69-3	10	35	60	60	Mouse sc TD lo, mouse oral LD50.
319	Biphenylol, sodium salt, 2-;	132-27-4	2.5	7.5	60	300	Pregnant mouse oral TD lo, rat oral LD50.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
320	Bis(1,1-dimethylethyl)-4-ethylphenol, 2,6-	4130-42-1	4	12.5	75	400	LD50 estimated from CAS RN = 128-37-0, 4-methylphenol
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	TLV-TWA, women oral TD lo, rat oral LD50.
322	Bis(1-methylethyl)benzene, 1,4-; (p- or 1,4-Diisopropylbenzene)	100-18-5	12.5	40	300	500	Mouse oral LD50.
323	Bis(1-methylethyl)benzene; (Diisopropylbenzene)	25321-09-9	5	15	100	500	Rat 240 min LClo
324	Bis(2,3-epoxypropoxy) butane, 1,4-	2425-79-8	30	100	500	500	Rat oral TD lo, rat oral LD50.
325	Bis(2-butoxyethyl) ether; (Dibutyl carbitol; Diethylene glycol dibutyl ether)	112-73-2	50	150	1,000	1,500	Mouse oral TD lo, rat oral LD50.
326	Bis(2-chlorethylthioethyl) ether; (2-2'-Di(3-chloroethylthio)diethyl ether)	63918-89-8	0.3	0.75	6	30	Human 60 min LC lo.
327	Bis(2-Chloroethoxy)ethane, 1,2-; (Triglycol dichloride)	112-26-5	1	3	20	100	Rat oral LD50.
328	Bis(2-chloroethyl)sulfide; (HD; Sulfur mustard)	505-60-2	0.02	0.065	0.13	2.08	AEGL-1/3, AEGL-1, AEGL-2, AEGL-3
329	Bis(2-chloroethylthio)ethane, 1,2-; (Sesquimustard)	3563-36-8	0.06	0.15	1.25	6	Human LC lo
330	Bis(2-chloroethylthio)methane	63869-13-6	0.05	0.15	1	5	Human LC lo estimated by comparison with Sesquimustard, 3563-36-8.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
331	Bis(2-chloroethylthio)-n-butane, 1,4-	142868-93-7	0.06	0.2	1.25	6	Human LC lo estimated by comparison with Sesquimustard, 3563-36-8.
332	Bis(2-chloroethylthio)-n-pentane, 1,5-	142868-94-8	0.075	0.2	1.5	7.5	Human LC lo estimated by comparison with Sesquimustard, 3563-36-8.
333	Bis(2-chloroethylthio)-n-propane, 1,3-	63905-10-2	0.06	0.15	1.25	6	Human LC lo estimated by comparison with Sesquimustard, 3563-36-8.
334	Bis(2-chloroethylthiomethyl)ether	63918-90-1	0.06	0.15	1.25	6	Human LC lo estimated by comparison with Sesquimustard, 3563-36-8.
335	Bis(2-ethoxyethyl) ether; (Diethyl carbitol)	112-36-7	75	250	500	500	Pregnant mouse TD lo, rat oral LD50.
336	Bis(2-ethylhexyl) hydrogen phosphate	298-07-7	0.02	0.06	0.4	2	Rat oral LD50.
337	Bis(2-ethylhexyl) phenyl phosphate	16368-97-1	0.075	0.2	1.5	7.5	Rat 240 min LC lo.
338	Bis(2-hydroxyethyl)dodecanamide, N,N-	120-40-1	0.04	0.125	1	1,000	Rat oral TD lo, rat oral LD50.
339	Bis(2-methylstyryl)benzene, 4-; (1,4-Bis(2-(2-methylphenyl)ethenyl)benzene)	13280-61-0	10	30	50	250	Used PNOS default.
340	Bis(3-tert-butyl-4-hydroxy-6-methyl-phenyl) sulfide	96-69-5	15	30	300	500	PEL-TWA, rat oral TD lo, rat oral LD50.
341	Bis(chloromethyl)ketone; (1,3-Dichloroacetone)	534-07-6	0.125	0.4	2	2	LOC, rat 120 min LC50.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
342	Bis(chloromethyl)oxetane, 3,3-	78-71-7	0.4	1.25	2	75	LOC, mouse 120 min LC50.
343	Bis(Dimethylamino)acridine, 3,6-; (Acridine orange)	494-38-2	0.4	1.25	7.5	40	Mouse sc LD50
344	Bis(trifluoromethyl)benzene, 1,3-	402-31-3	4.7	14.1	23.5	470	Fluoride concentration limits.
345	Bis(tris(hydroxymethyl)methylamino)propane, 1,3-; (Bis-tris propane)	64431-96-5	10	30	50	250	Used PNOS default.
346	Bis[(benzo-15crown-5)-15-ylmethyl] pimelate	69271-98-3	10	30	50	250	Used PNOS default.
347	Bisbutenylenetetrahydrofurfural; (2,3,4,5-bis(2-butylene)tetrahydro-2-furaldehyde)	126-15-8	10	30	200	500	Rat oral LD50.
348	Bismuth	7440-69-9	1.5	5	40	200	Human LDlo.
349	Bismuth acetate	22306-37-2	10	30	50	250	Used PNOS default.
350	Bismuth germanate	12233-73-7	1.5	5	40	200	Human LDlo.
351	Bismuth hydroxide	10361-43-0	1	1	3	100	SAR
352	Bismuth hydroxide nitrate oxide; (White paint)	1304-85-4	7.5	20	150	500	Infant oral TD lo, infant oral LDlo.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
353	Bismuth iodide	7787-64-6	1.5	5	35	150	Estimated rat oral LD50.
354	Bismuth nitrate	10361-44-1	1.25	4	25	500	Rat intratracheal TD lo, mouse intraperitoneal LDlo.
355	Bismuth oxide	1304-76-3	20	60	400	500	Rat oral LD50.
356	Bismuth oxychloride	7787-59-9	75	250	500	500	Rat oral LD50.
357	Bismuth(III) nitrate, pentahydrate	10035-06-0	2	6	40	500	Rat 240 min TClo, rat oral LD50.
358	Bisphenol A	80-05-7	5	15	100	500	Female rat ip nTD lo, rat oral LD50.
359	Bisphenol A diglycidyl ether	1675-54-3	1.25	3.5	6	6	Mouse skin TD lo, rat oral LD50.
360	Bitoscanate; (1,4-Phenylenediisothiocyanic acid)	4044-65-9	4	12.5	20	20	LOC, rat oral LD50.
361	BoBCalix; (Calix[4]arene-bis(t-octylbenzo-crown-b))	z-0110	10	30	50	250	PNOS TLV-TWA default used.
362	Borane methyl sulfide complex; (Methyl sulfide complex with borane (1:1))	13292-87-0	0.35	1	6	35	Rabbit skin LDlo.
363	Borane-tetrahydrofuran	14044-65-6	5	15	25	125	TWA based on borane compound toxicity range

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
364	Borate	14213-97-9	60	150	500	500	Minimum human oral LD50.
365	Boric acid	10043-35-3	2	6	100	125	TLV-TWA, human TD lo, human LDlo.
366	Boric acid, tributyl ester; (Tri-n-butyl borate)	688-74-4	7.5	25	150	750	Mouse oral LD50.
367	Boron	7440-42-8	2.5	7.5	50	250	Rat oral LD50.
368	Boron carbide	12069-32-8	10	30	50	250	Used PNOS default.
369	Boron nitride	10043-11-5	400	500	500	500	Rat LDlo minimum.
370	Boron oxide	1303-86-2	15	30	300	500	PEL-TWA, rat TClo, IDLH.
371	Boron tribromide	10294-33-4	10	10	10	50	TLV-C
372	Boron trichloride	10294-34-5	0.5	1.5	10	12.5	LOC, rat 420 min LC lo.
373	Boron trifluoride	7637-07-2	2	2	30	100	ERPG-1, ERPG-1 , ERPG-2 , ERPG-3 .
374	Boron trifluoride etherate	109-63-7	9.34	25	150	500	Fluoride concentration limits.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
375	Boron trifluoride-dimethyl ether	353-42-4	0.75	2.5	37	110	AEGL-1/3, AEGL-1, AEGL-2, AEGL-3.
376	Brij-35; (alpha-Dodecyl-omega-hydroxypolyoxy-ethylene)	900-29-2	0.15	0.5	3.5	400	Rat intratracheal TD lo, rat oral LD50.
377	Brilliant blue	2650-18-2	0.06	0.06	0.06	0.06	Rat subcutaneous TD lo, human iv LDlo.
378	Bromadiolone	28772-56-7	0.2	0.6	1	1	LOC, rat oral LD50.
379	Bromine	7726-95-6	0.216	0.216	1.57	55.5	AEGL-1, AEGL-1, AEGL-2, AEGL-3.
380	Bromine chloride	13863-41-7	10	30	50	250	Used PNOS default.
381	Bromine pentafluoride	7789-30-2	0.75	1	7.15	236	TLV-TWA, TLV-TWA, AEGL-2, AEGL-3.
382	Bromine trifluoride	7787-71-5	0.671	0.671	11.2	118	AEGL-1, AEGL-2, AEGL-3.
383	Bromo acetic acid, methyl ester	96-32-2	0.25	0.75	5	25	Mouse iv LDlo.
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	Rat oral LD50.
385	Bromo-2-chloro-1,1,2-trifluoroethane, 1-; (Halon 1301; 1,1,2-Trifluoro-1-bromo-2-chloroethane)	354-06-3	400	1,250	7,500	40,000	Mouse 120 min LC50.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
386	Bromo-3-chloro-5,5-dimethylhydantoin, 1-; (1-Bromo-3chloro-5,5-dimethyl-2,4-imidazolidinedione)	16079-88-2	6	15	125	500	Rat oral LD50.
387	Bromo-3-methylbutane, 1-	107-82-4	25	75	500	2,500	Rat ip LD50.
388	Bromoacetaldehyde diethyl acetul	2032-35-1	7.5	25	150	500	Rat oral LD50 estimated from HHR.
389	Bromoacetic acid	79-08-3	0.04	0.125	0.75	4	Rat 30 min LC lo.
390	Bromoacetone	598-31-2	0.4	1.25	7.5	40	Human LC lo
391	Bromoanisole, 99, 3-	2398-37-0	10	30	50	250	PNOS default used.
392	Bromobenzene; (Phenyl bromide)	108-86-1	6	15	125	2,000	Mouse intraperitoneal TD lo, rat 240 min LC50.
393	Bromochlorobenzene, m-	108-37-2	10	30	50	250	Used PNOS default.
394	Bromochlorobenzene, p-	106-39-8	10	30	50	250	Used PNOS default.
395	Bromochloromethane	74-97-5	1,000	3,000	5,000	10,000	PEL-TWA, IDLH.
396	Bromocresol green	76-60-8	10	30	50	250	Used PNOS default.

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The "Source of PACs" column will be enhanced in the near future to improve the clarity and completeness of its information.

Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
397	Bromocresol purple	115-40-2	10	30	50	250	Used PNOS default.
398	Bromocyclohexanol, Cis-2-	16536-57-5	0.3	0.75	5	300	SAR
399	Bromodecane, 1-	112-29-8	15	40	300	1,500	Mouse 120 min LC50
400	Bromodichloromethane	75-27-4	1.5	4	30	150	Rat oral TD lo, rat oral LD50.
401	Bromododecane, 1-	143-15-7	7.5	25	150	500	Rat oral LD50 based on HHR.
402	Bromoethane	74-96-4	20	6,000	6,000	6,000	TLV-TWA, rat TClo, rat LC50
403	Bromoethanol, 2- (ethylene bromohydrin)	540-51-2	0.075	0.2	1.5	60	Mouse ip TD lo, mouse ip LDlo.
404	Bromoethylmagnesium	925-90-6	1.5	5	35	150	Rat oral LD50 based on HHR = 3.
405	Bromofluorobenzene, 4-; (p-fluorobromobenzene)	460-00-4	75	200	500	500	Rat 240 min LC50
406	Bromoform; (Tribromomethane)	75-25-2	5	5	10	7,500	PEL-TWA, IDLH.
407	Bromohexane; (n-Hexyl bromide)	111-25-1	250	750	6,000	30,000	Rat 30 min LC50.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
408	Bromomesitylene, 2-; (2-Bromo-1,3,5-trimethylbenzene)	576-83-0	10	30	50	250	PNOS default used.
409	Bromomethyl-1,3-dioxolane, 2-	4360-63-8	7.5	25	150	500	Rat oral LD50 estimated from HHR = 2.
410	Bromonaphthalene	90-11-9	3.5	10	60	350	Mouse ip LD50.
411	Bromonitromethane	563-70-2	0.75	2.5	15	75	Rat oral LDlo.
412	Bromooctane, 1-; (Octyl bromide)	111-83-1	20	60	400	2,000	Rat oral LD50.
413	Bromophenol blue	115-39-9	10	30	50	250	PNOS default used.
414	Bromophenyl phenyl ether, 4-	101-55-3	2	6	40	200	Rat 240 min LC lo.
415	Bromopropane, 1-	106-94-5	50	150	12,500	12,500	TLV-TWA, rat TClo, rat 30 min LC lo.
416	Bromopropane, 2-	75-26-3	3,000	7,500	60,000	125,000	Rat TClo, mouse 240 min LC50
417	Bromopyrene, 3-	1714-29-0	10	30	50	250	Used PNOS default.
418	Bromosuccinimide, N-	128-08-5	2	6	40	200	Mouse ip LDlo.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
419	Bromothymol blue	76-59-5	10	30	50	250	Used PNOS default
420	Bromotoluene, A-; (Benzyl bromide)	100-39-0	0.6	1.5	12.5	60	Rabbit 30 min LC lo
421	Bromotrichloromethane	75-62-7	0.5	1.5	10	50	Rat ip LD50.
422	Bromotrifluoroethylene	598-73-2	40	125	200	750	Fluoride concentration limits, rat TClo, rat 240 min LC lo.
423	Bromotrifluoromethane; (Trifluorobromomethane)	75-63-8	6,000	20,000	150,000	250,000	PEL-TWA, 60 min EEGL, 30 min EEGL.
424	Bromotrimethylsilane; (Trimethylsilyl bromide)	2857-97-8	1.5	5	35	150	Rat oral LD50 based on HHR = 3.
425	Brown menhaden fish oil	68440-42-6	10	30	50	250	PNOS default used.
426	Brucine; (2,3-Dimethoxystrychnine)	357-57-3	0.6	1.5	12.5	40	Rat ip TD lo, rat ip LD50
427	Buffer	3418-02-5	10	30	50	250	PNOS TLV-TWA default used.
428	Buffer solution, aqueous	7732-18-5	500	500	500	500	Human oral TDlo, mouse ip LD50
429	Butadiene,1,3-	106-99-0	4	1,480	11,700	48,600	TLV-TWA, AEGL-1, AEGL-2, AEGL-3.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
430	Butanaminium,N,N,N-tributyl bromide, 1-; (Tetrabutylammonium bromide)	1643-19-2	10	30	50	250	Used PNOS default
431	Butane	106-97-8	1,500	13,100	40,400	126,000	TLV-TWA, AEGL-1, AEGL-2, AEGL-3.
432	Butanedioic acid, diethyl ester; (Succinic acid, diethyl ester)	123-25-1	35	100	750	3,500	Rat oral LD50.
433	Butanedioic acid, dimethyl ester; (Succinic acid, dimethyl ester)	106-65-0	20	60	400	2,000	Rat oral LD50 minimum.
434	Butanediol dinitrate, 1,4-	3457-91-8	0.35	0.75	3	20	SAR
435	Butanediol, 1,3-	107-88-0	25	75	500	500	Mammal oral TD lo, rat oral LD50
436	Butanediol, 1,4-; (1,4-Tetramethylene glycol; TMA)	110-63-4	1.25	3.5	25	250	WOMEN LDlo, RAT ORAL TD LO.
437	Butanedione, 2,3-	431-03-8	20	60	400	400	Rat oral TD lo, rat oral LD50.
438	Butanenitrile; (Butyronitrile)	109-74-0	20	60	100	125	REL-TWA, mouse 60 min LC50.
439	Butanephosphonic acid	3321-64-0	0.02	0.06	0.4	2	SAR
440	Butanethiol; (n-Butyl mercaptan)	109-79-5	1.5	20	150	1,500	PEL-TWA, REL-C, IDLH.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
441	Butanoic acid, butyl ester; (n-Butyl n-butanoate)	109-21-7	10	30	200	1,000	RAT IP LD50.
442	Butanol, aluminum salt, 2-	2269-22-9	18.3	54.8	91.3	400	Al alkyls TLV-TWA.
443	Butanol, N-(d10)	34193-38-9	1.5	5	35	150	Estimated rat 240 min LC50.
444	Butanone oxime; (Ethyl methyl ketoxime)	96-29-7	35	150	400	400	WEEL-TWA, Rat TClo, rat oral LD50.
445	Butanone, 2-; (Methyl ethyl ketone; MEK)	78-93-3	590	590	7,960	11,800	PEL-TWA, AEGL-1, AEGL-2, AEGL-3.
446	Butene, 1-; (Butylene)	106-98-9	750	2,500	4,000	20,000	TLV-TWA.
447	Butene, 2-	107-01-7	3.5	10	75	400	Mouse 120 min LC50.
448	Butene, cis-2-; (cis-1,2-Dimethylethylene)	590-18-1	150,000	150,000	500,000	750,000	Simple asphyxiant
449	Butene, trans-2-; (Trans-1,2-dimethylethylene)	624-64-6	12,500	40,000	60,000	60,000	Mouse TClo, mouse 120 min LC lo.
450	Butoxyethanol acetate, 2-; (Ethylene glycol monobutyl ether acetate)	112-07-2	30	100	150	1,000	REL-TWA, rat pral LD50.
451	Butoxyethanol phosphate, 2-	78-51-3	7.5	20	150	500	Rat oral TD lo, rat oral LD50.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
452	Butoxyethanol, 2-; (Glycol ether EB; Xtraction II)	111-76-2	250	250	500	3,500	PEL-TWA, human TClo, IDLH.
453	Butoxyethoxy)-ethanol, 2-(2-; (Diethylene glycol monobutyl ether)	112-34-5	100	100	500	500	MAK-TWA, rat oral TD lo, rat oral LD50.
454	Butoxyethoxy)ethyl thiocyanate, 2-(2-	112-56-1	0.35	1	7.5	40	Rat oral LD50.
455	Butoxypolypropylene glycol	9003-13-8	35	100	500	500	Rat oral LD50
456	Butyl acetate, n-	123-86-4	24	24	950	14,250	ERPG-1, ERPG-1, ERPG-2, ERPG-3.
457	Butyl acetate, sec-	105-46-4	750	750	1,250	6,000	PEL-TWA, IDLH.
458	Butyl acetate, tert-	540-88-5	750	2,500	4,000	6,000	PEL-TWA, IDLH.
459	Butyl acetoacetate, tert-	1694-31-1	20	60	400	500	Rat oral LD50 minimum.
460	Butyl acrylate, n-	141-32-2	10	43.5	681	2,510	TLV-TWA, AEGL-1, AEGL-2, AEGL-3.
461	Butyl alcohol, n-	71-36-3	150	150	150	4,000	PEL-TWA, REL-C, IDLH.
462	Butyl alcohol, sec-; (2-Butanol)	78-92-2	300	400	6,000	6,000	TLV-TWA, rat TClo, IDLH.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
463	Butyl bis(2-ethylhexyl)phosphate	z-0002	3	7.5	10	10	SAR
464	Butyl bromide, n-; (1-Bromobutane)	109-65-9	100	300	2,000	10,000	Rat 120 min LC50
465	Butyl chloroformate, n-	592-34-7	5	15	100	600	Rat LD50.
466	Butyl chloroformate, sec-	17462-58-7	1	3	20	100	Rat 60 min LC50 = 1.82 mg/L.
467	Butyl ether, n-; (Dibutyl ether)	142-96-1	5	15	100	2,000	Human TClo, rat 240 min LC lo.
468	Butyl glycidyl ether, n-	2426-08-6	15	15	30	1,250	TLV-TWA, REL-C, IDLH.
469	Butyl isocyanate, n-	111-36-4	0.0125	0.04	0.2	4	ERPG-1/3, ERPG-1, ERPG-2, ERPG-3.
470	Butyl isocyanate, Tert-	1609-86-5	0.25	0.75	5	25	Rat 240 min LC50.
471	Butyl levulinate	2052-15-5	20	60	400	500	Rat oral LD50 minimum.
472	Butyl lithium	109-72-8	0.231	0.231	1.25	6	LiH rat 240 min LClo
473	Butyl methyl-d3 ether, tert-	29366-08-3	150	500	15,000	15,000	Tert-butyl methyl ether TLV-TWA, and toxicity data.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
474	Butyl perbenzoate, tert-	614-45-9	7.5	25	150	400	Mouse uk TD lo, rat oral LD50.
475	Butyl propanoate; (Propanoic acid, butyl ester)	590-01-2	500	500	500	500	Rat TClo, rat oral LD50.
476	Butyl-2-methylcyclopropane, T-1-	38851-70-6	10	30	50	250	Used PNOS default.
477	Butyl-3-iodo-2-propynyl ester carbamic acid	55406-53-6	10	30	50	250	Used PNOS default.
478	Butylamine, (S)-sec-	513-49-5	1.5	4	30	150	Rat oral LD50.
479	Butylamine, n-	109-73-9	15	15	150	750	MAK-TWA, PEL-C and mouse ip TD lo, IDLH.
480	Butylamine, sec-	13952-84-6	15	15	30	60	MAK-TWA, MAK-C, rat oral LD50.
481	Butylamine, tert-	75-64-9	15	15	30	400	MAK-TWA, MAK-C, human TClo, rat 240 min LC50.
482	Butylbenzene, n-; (1-Phenylbutane)	104-51-8	40	125	750	4,000	Rat oral LDlo.
483	Butylbenzene, sec-; (2-Phenylbutane)	135-98-8	7.5	25	200	1,000	Rat oral LD50
484	Butylbenzene, tert-	98-06-6	40	125	750	4,000	Rat oral LDlo.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
485	Butylcyclohexane; (1-Cyclohexylbutane)	1678-93-9	10	30	200	1,000	Estimated rat oral LD50.
486	Butylcyclohexanone, p-tert-	98-53-3	20	60	400	500	Rat oral LD50.
487	Butylene carbonate; (1,2-Butanediol, cyclic carbonate)	4437-85-8	20	60	400	500	Rat oral LD50 minimum.
488	Butylpyrocatechol, 4-tert-; (4-tert-Butylcatechol)	98-29-3	0.1	0.3	2	500	WEEL-C, rat oral LD50/
489	Butyne-1,4-diol, 2-; (1,4-Butynediol)	110-65-6	0.35	1	20	30	USSR-STEL, rat TClo, rat 120 min LC lo.
490	Butyraldehyde	123-72-8	0.06	0.15	1.25	40	Human TClo, rat 10 min LC50.
491	Butyric acid	107-92-6	50	150	750	750	Hamster oral TD lo, rat oral LD50.
492	Butyric acid, sodium salt	156-54-7	50	150	500	500	Dog iv TD lo.
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	Rat oral TD lo.
494	C-18 Unsaturated fatty acid, dimers, reaction products with polyethylenepolyamines; (Versamid 140 polyamide resin; Versamid 125)	68410-23-1	10	30	50	250	Used PNOS default

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
495	Cacodylic acid	75-60-5	0.5	1.5	5	5	Organic arsenic compound PEL-TWA, IDLH.
496	Cadmium & compounds	7440-43-9	0.005	0.03	1.25	9	PEL-TWA, woman TClo, IDLH.
497	Cadmium bromide	7789-42-6	0.0121	0.0727	4	21.8	PEL-TWA, LOC, IDLH.
498	Cadmium carbonate	513-78-0	0.0077	0.046	4	13.8	PEL-TWA, LOC, IDLH.
499	Cadmium chloride	10108-64-2	0.0081	0.0489	0.5	14.7	PEL-TWA, rat TClo, IDLH.
500	Cadmium chloride hemipentahydrate; (Cadmium chloride, 2.5-hydrate)	7790-78-5	0.25	0.75	5	300	Rat ip TD lo, rat oral LD50.
501	Cadmium fluoride	7790-79-6	0.0067	0.0401	4	12	PEL-TWA, LOC, IDLH.
502	Cadmium hydroxide	21041-95-2	0.0065	0.0391	4	11.7	PEL-TWA, LOC, IDLH.
503	Cadmium nitrate	10325-94-7	0.0105	0.0631	4	18.9	PEL-TWA, LOC, IDLH.
504	Cadmium nitrate tetrahydrate	10022-68-1	0.0137	0.6	4	24.7	PEL-TWA, LOC, IDLH.
505	Cadmium nitrite	z-0003	0.0091	0.0546	4	16.4	PEL-TWA, LOC, IDLH.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
506	Cadmium oxide	1306-19-0	0.0057	0.0343	4	10.3	PEL-TWA, LOC, IDLH.
507	Cadmium stearate; (Octadecanoic acid, cadmium salt)	2223-93-0	0.0303	0.182	13	54.6	PEL-TWA, LOC, IDLH.
508	Cadmium sulfate	10124-36-4	0.0093	0.0557	4	16.7	PEL-TWA, LOC, IDLH.
509	Cadmium sulfate, hydrate	7790-84-3	0.0157	0.0941	0.3	28.2	PEL-TWA, hamster iv TD lo, IDLH.
510	Cadmium sulfide	1306-23-6	0.0064	0.0386	11.6	11.6	PEL-TWA, rat subcutaneous TD lo, IDLH.
511	Cadmium tungstate	7790-85-4	0.016	0.0961	4	28.8	PEL-TWA, LOC, IDLH.
512	Cadmium(II) acetate	543-90-8	0.0052	0.031	4	9.31	PEL-TWA, LOC, IDLH.
513	Calcium	7440-70-2	10	30	50	250	Used PNOS default.
514	Calcium acetate	62-54-4	0.02	0.06	0.4	30	Pregnant rat TClo, mouse ip LD50.
515	Calcium arsenate	7778-44-1	2	6	10	10	LOC, rat oral LD50.
516	Calcium carbide	75-20-7	10	30	50	250	Used PNOS default.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
517	Calcium carbonate; (Dolomite, Limestone)	1317-65-3	15	45	75	350	PEL-TWA.
518	Calcium chloride	10043-52-4	25	75	400	400	Women intravenous TD lo, rat oral LD50.
519	Calcium chloride dihydrate	10035-04-8	40	125	500	500	Rat oral TD lo, mouse ip LD50.
520	Calcium chloride hexahydrate	7774-34-7	5	15	100	500	Guinea pig iv LDlo.
521	Calcium chloride hydrate	22691-02-7	30	100	450	500	Concentration limits based on TEELs for Ca.Cl ₂ and Ca.Cl ₂ ..2(H ₂ O)
522	Calcium chromate	13765-19-0	0.015	0.0901	1.25	45	Cr VI concentration limits.
523	Calcium cyanamide	156-62-7	0.5	1.5	125	500	TLV-TWA, rat oral TD lo, human oral LDlo.
524	Calcium fluoride	7789-75-5	5.14	15.4	200	500	Fluoride concentration limits, rat oral LD50.
525	Calcium formate	544-17-2	10	30	200	500	Rat oral LD50.
526	Calcium hydride	7789-78-8	1.5	5	35	150	Estimated rat oral LD50.
527	Calcium hydroxide	1305-62-0	15	15	500	500	PEL-TWA, rat oral LD50.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
528	Calcium hypochlorite; (Calcium oxychloride)	7778-54-3	3.5	10	75	350	Rat oral LD50.
529	Calcium metasilicate	10101-39-0	10	30	50	250	Used PNOS default.
530	Calcium monohydrogen phosphate dihydrate	7789-77-7	10	30	50	250	Used PNOS default.
531	Calcium nitrite	13780-06-8	0.03	0.075	0.6	50	SAR
532	Calcium oxalate	563-72-4	6	15	50	50	SAR
533	Calcium oxalate, hydrate	5794-28-5	10	30	50	250	Used PNOS default.
534	Calcium oxide	1305-78-8	5	5	5	25	PEL-TWA, IDLH.
535	Calcium phosphate tribasic	12167-74-7	10	30	50	250	Used PNOS default.
536	Calcium phosphate; (Tricalcium phosphate)	10103-46-5	7.5	20	35	350	SAR
537	Calcium sulfate anhydrous; (Drierite)	7778-18-9a	15	30	50	250	PEL-TWA, TLV-TWA.
538	Calcium sulfate; (Gypsum; Plaster of Paris)	7778-18-9b	15	30	50	250	PEL-TWA, TLV-TWA.

AEGLs = bold 12pt font / ERPGs (but not AEGLs) = bold 10pt font

The "Source of PACs" column will be enhanced in the near future to improve the clarity and completeness of its information.

Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
539	Calcium(II) nitrate	10124-37-5	1.25	3.5	25	125	Rat oral LD50.
540	Calcium(II) nitrate tetrahydrate (1:2:4)	13477-34-4	15	50	350	500	Rat oral LD50.
541	Calcium(II) sulfate dihydrate (1:1:2)	10101-41-4	15	30	50	75	Ca sulfate PEL-TWA, TLV-TWA, rat ip TD lo.
542	Camphor	76-22-2	2	19	19	200	PEL-TWA, TLV-STEL, rabbit TClo, IDLH.
543	Camphorsulfonic acid, (1R)-(-)-10-	35963-20-3	4	12.5	75	400	Mouse sc LD50 of CAS RN 3144-16-9.
544	Cantharidin	56-25-7	0.75	2.5	4.3	4.3	LOC, human oral LDlo.
545	Caprolactam (dust)	105-60-2	1	3	3	20	REL-TWA, REL-STEL, human TClo, rat 120 min LC50.
546	Caprolactone; (epsilon-Lactone hexanoic acid)	502-44-3	15	50	350	500	Rat oral LD50.
547	Caprylyl chloride; (Octanoyl chloride)	111-64-8	10	30	50	250	Used PNOS default.
548	CAPSO	73463-39-5	10	30	50	250	Used PNOS default.
549	Captan	133-06-2	5	15	30	500	TLV-TWA, male mouse oral TDlo, human oral LDlo.

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The "Source of PACs" column will be enhanced in the near future to improve the clarity and completeness of its information.

Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
550	Carbachol Chloride	51-83-2	3	7.5	15	15	LOC, rat oral LD50.
551	Carbamic acid, methyl-, O-(((2,4-dimethyl-1,3-dithiolan-2-yl)methylene)amino)-	26419-73-8	0.2	0.6	1	1	LOC, rat oral LD50.
552	Carbanolate; (Aldicarb; Methyl-2-(methylthio)propionaldehyde-o-(methylcarbamoyl)oxime, 2-)	116-06-3	0.07	0.21	0.3	100	WEEL-TWA, LOC, rat 300 min LC50.
553	Carbaryl	63-25-2	5	15	25	100	PEL-TWA, human oral TD lo, IDLH.
554	Carbazole	86-74-8	0.75	2.5	15	75	Mouse ip LD50.
555	Carbazole violet	6358-30-1	75	250	500	500	Rat oral LD50 based on HHR.
556	Carbethoxyethylidine(triphenylphosphorane)	5717-37-3	10	30	50	250	Used PNOS default.
557	Carbofuran	1563-66-2	0.1	0.3	0.43	0.5	TLV-TWA, LOC, women oral LD50.
558	Carbon black	1333-86-4	3.5	10.5	17.5	500	PEL-TWA, IDLH.
559	Carbon dioxide	124-38-9	7,500	50,000	75,000	75,000	PEL-TWA, TLV-STEL, rat TClo, IDLH.
560	Carbon disulfide	75-15-0	40.4	40.4	498	1,490	AEGL-1, AEGL-1, AEGL-2, AEGL-3.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
561	Carbon monoxide	630-08-0	60	95	95	378	PEL-TWA, AEGL-2, AEGL-2, AEGL-2.
562	Carbon tetrachloride	56-23-5	60	277	1,190	3,270	TLV-TWA, AEGL-1, -2, -3.
563	Carbon tetrafluoride; (Tetrafluoromethane)	75-73-0	750	2,500	15,000	75,000	Rat 15 min LC lo.
564	Carbon trifluoride; (Trifluoromethane, Fluoroform)	75-46-7	2,500	7,500	60,000	300,000	Estimated human TClo.
565	Carbon; (Graphite, synthetic)	7440-44-0	2	6	10	500	TLV-TWA, rat sc TD lo, IDLH.
566	Carbonic acid, calcium salt	471-34-1	15	30	500	500	PEL-TWA, rat oral LD50.
567	Carbonyl fluoride	353-50-4	5	12.5	12.5	50	TLV-TWA, TLV-STEL, rat 60 min LC50.
568	Carbonyl sulfide	463-58-1	3	10	60	350	Mouse 35 min LC lo.
569	Carbonyldiphthalic anhydride, 4,4'-	2421-28-5	10	30	50	250	Used PNOS default.
570	Carbophenothion; (Trithion)	786-19-6	1.25	4	6.8	6.8	LOC, rat oral LD50.
571	Carboxymethyl cellulose	9000-11-7	40	125	500	500	Rat oral LDlo minimum.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
572	Carboxymethyl sepharose; (CM sepharose)	68894-07-5	7.5	25	150	500	Rat oral LD50 based on HHR = 2.
573	Casamino acids	z-0008	10	30	50	250	Used PNOS default.
574	Casein; (Casamino acids; Casein hydrolysate type 1)	9000-71-9	10	30	50	250	PNOS default
575	Castor oil	8001-79-4	40	125	500	500	Rat im TD lo, human oral LDlo minimum.
576	Catechol	120-80-9	20	60	100	100	TLV-TWA, pregnant rat sc TD lo, rat oral LD50.
577	Cation exchange resin 200-400 meshHyd.Dowex 50W-X8	11119-67-8	10	30	50	250	Used PNOS default
578	Cation exchange resin 50W-X12, 200 - 400 mesh	9056-03-5	10	30	50	250	Used PNOS default
579	Cellulose	9004-34-6	15	30	500	500	PEL-TWA, TLV-TWA, rat oral TDlo, rat 240 min LC 50.
580	Cellulose acetate butanoate; (Celvacene)	9004-36-8	10	30	50	250	Used PNOS default
581	Cellulose, 2-(diethylamino)ethyl ether	9013-34-7	10	30	50	250	Used PNOS default
582	Ceric ammonium nitrate	16774-21-3	39.1	117	200	500	Used PNOS default

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
583	Ceric ammonium sulfate	7637-03-8	42.9	129	214	500	Used PNOS default
584	Ceric ammonium sulfate, dihydrate	10378-47-9	10	30	50	250	Used PNOS default
585	Ceric oxide	1306-38-3	6	20	125	500	Rat 240 min TClo, rat oral LD50 minimum.
586	Cerium	7440-45-1	10	30	50	250	Used PNOS default
587	Cerium (iv) nitrate, 1.5	13093-17-9	10	30	50	250	PNOS TLV-TWA default used.
588	Cerium acetate	537-00-8	0.1	0.35	2	10	Human iv TD lo.
589	Cerium chloride	7790-86-5	7.5	25	150	500	Rat oral LD50
590	Cerium fluoride	7758-88-5	8.65	25.9	43.2	500	Rat oral LD50 minimum.
591	Cerium hydroxide	15785-09-8	0.75	0.75	2	75	SAR
592	Cerium nitrate hexahydrate	10294-41-4	15	50	350	500	Rat oral LD50
593	Cerium oxalate	15750-47-7	22.6	67.7	113	500	Used PNOS default.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
594	Cerium sulfate	13590-82-4	1	3.5	20	100	Male rat intratracheal TD lo.
595	Cerium trioxide	1345-13-7	2	6	40	200	Mouse ip LD50.
596	Cerium(iii) sulfate	13454-94-9	7.5	25	150	500	Rat oral LD50 based on HHR = 2.
597	Cerium(IV) hydroxide	12014-56-1	14.9	44.6	75	350	Used PNOS default.
598	Cerous nitrate; (Cerium(III) nitrate)	10108-73-3	1	3	20	500	Male rat intratracheal TD lo, rat oral LD50.
599	Cerous nitrite	z-0004	0.04	0.1	0.75	75	SAR
600	Cesium	7440-46-2	6	20	150	500	Mouse ip LD50.
601	Cesium carbonate	534-17-8	10	30	200	500	Rat oral LD50.
602	Cesium chloride	7647-17-8	0.4	1.25	10	500	Female rat oral TD lo, rat oral LD50.
603	Cesium fluoride	13400-13-0	20	60	100	500	Fluoride concentration limits.
604	Cesium hydroxide	21351-79-1	2	2	7.5	250	TLV-TWA, rat TClo, rat oral LD50.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
605	Cesium iodide	7789-17-5	10	30	200	500	Rat oral LD50.
606	Cesium nitrate	7789-18-6	10	30	200	500	Rat oral LD50.
607	Cesium nitrite	z-0005	0.075	0.2	1.5	60	SAR
608	Cesium oxide	20281-00-9	2.24	6.72	11.2	500	Cs hydroxide TLV-TWA and rat oral LDlo (HSDB).
609	Charcoal, activated	64365-11-3	10	30	50	250	Used PNOS default
610	Chloramben; (3-Amino-2,5-dichlorobenzoic acid)	133-90-4	35	100	500	500	Mouse oral TD lo, rat oral LD50.
611	Chloramphenicol	56-75-7	0.5	1.5	7.5	350	WEEL-TWA, human TD lo, women orak LDlo.
612	Chlordane	57-74-9	0.5	1.5	50	100	PEL-TWA, LOC, IDLH.
613	Chlorfenvinfos	470-90-6	2	6	10	10	LOC, rat oral LD50.
614	Chloric acid, sodium salt; (Sodium chlorate)	7775-09-9	0.15	0.4	3	75	Human oral TD lo, child uk LD50.
615	Chloride	16887-00-6	0.75	1.5	1.5	15	TLV-TWA, TLV-STEL, PEL-C, IDLH.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
616	Chlorinated polyolefins	68410-99-1	10	30	50	250	Used PNOS default.
617	Chlorine	7782-50-5	1.45	1.45	5.8	58	TLV-TWA, AEGL-1, AEGL-2, AEGL-3
618	Chlorine dioxide	10049-04-4	0.25	0.414	3.03	6.62	PEL-TWA, AEGL-1, AEGL-2, AEGL-3
619	Chlorine Hi dry granular (as Cl)	z-0006	0.75	1.45	4.35	29	Chlorine TLV-TWA, ERPG-1, ERPG-2, ERPG-3.
620	Chlorine pentafluoride	13637-63-3	0.5	1.6	5.33	42.7	AEGL-1/3, AEGL-1, AEGL-2, AEGL-3.
621	Chlorine trifluoride	7790-91-2	0.35	0.453	7.56	79.3	MAK-TWA, AEGL-1, AEGL-2, AEGL-3
622	Chlormephos	24934-91-6	1.25	4	7	35	LOC, rat 240 min LC50.
623	Chlormequat Chloride; (Choline dichloride)	999-81-5	0.35	1	7	7.5	LOC, human LDlo.
624	Chloro-1,1-difluoroethane, 1-; (HCFC-142b)	75-68-3	4,000	41,000	61,500	102,500	WEEL-TWA, ERPG-1, ERPG-2, ERPG-3.
625	Chloro-1,2-propanediol, 3-; (Chlorohydrin)	96-24-2	0.1	0.3	2	60	Rat oral TD lo, rat 240 min LC lo.
626	Chloro-1-butanol, 4-	928-51-8	1.5	5	35	400	Mouse ip TD lo, mouse oral LD50.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
627	Chloro-2,4-dinitrobenzene, 1-	97-00-7	3	10	60	350	Rat oral TD lo, rat oral LD50.
628	Chloro-2-methyl-1-propene, 3-	563-47-3	3	7.5	60	300	Rat oral TD lo.
629	Chloro-2-methylpropane, 2-; (Tert-butyl chloride)	507-20-0	1.5	4	30	7,500	Mouse ip TD lo, HHR-based rat oral LD50.
630	Chloro-2-nitrophenol, 4-	89-64-5	0.4	1.25	7.5	40	MSDS rat oral LD50.
631	Chloro-4-nitrophenol, 2-	619-08-9	3.5	10	75	400	Rat oral LD50.
632	Chloroacetaldehyde	107-20-0	3	4.17	7.06	31.8	PEL-C, AEGL-1, AEGL-2, AEGL-3.
633	Chloroacetaldehyde dimethyl acetal	97-97-2	7.5	25	150	500	Estimated HHR and rat oral LD50.
634	Chloroacetic acid, sodium salt	3926-62-3	2.38	7.14	40	40	WEEL-TWA, rat oral TD lo, rat oral LD50.
635	Chloroacetic acid; (Monochloroacetic acid)	79-11-8	2	6	25.5	75	TLV-TWA, TLV*3, AEGL-2, rat 240 min LC50.
636	Chloroacetone	78-95-5	3.5	3.5	16.6	49.2	PAC-1/3, TLV-C, AEGL-2, AEGL-3.
637	Chloroacetonitrile	107-14-2	4	12.5	98.7	207	AEGL-2/21, AEGL-2/7, AEGL-2, AEGL-3.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
638	Chloroacetyl chloride	79-04-9	0.185	0.185	7.39	240	TLV-TWA, AEGL-1, AEGL-2, AEGL-3.
639	Chloroallyl)-3,5,7-triaza-1-azoniaadamantane chloride, 1-(3-	4080-31-3	1	3	20	200	Rat oral TD lo, rat oral LD50.
640	Chloroaniline, p-	106-47-8	0.5	1.5	10	300	Rat oral TD lo, mouse 360 min LC lo.
641	Chlorobenzene; (Benzene chloride)	108-90-7	350	350	3,500	4,000	PEL-TWA, rat TClo, IDLH.
642	Chlorobenzotrifluoride, 2-	88-16-4	6	20	125	500	Rat oral LD50.
643	Chlorobenzylate; (4,4'-Dichloro-benzilic acid ethyl ester)	510-15-6	0.3	0.75	6	300	Rat oral TD lo, rat oral LD50.
644	Chlorobenzylidene malononitrile, o-	2698-41-1	0.005	0.005	0.1	3.25	ERPG-1, ERPG-1, ERPG-2, ERPG-3.
645	Chlorobutane, 1-; (Butyl chloride)	109-69-3	30	75	600	3,000	Rat oral TDlo, rat 240 min Lclo.
646	Chlorobutane, 2-; (Sec-butyl chloride)	78-86-4	1.5	5	35	12,500	Mouse ip TD lo, rat 240 min LC lo.
647	Chlorobutyryl chloride, 4-	4635-59-0	2.5	7.5	50	250	Rat 240 min LC50
648	Chlorocyclohexanol, trans-2-	6628-80-4	3.5	10	75	400	Rat oral LD50.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
649	Chlorocyclohexene; (4-Chlorocyclohexene)	930-65-4	100	300	2,500	12,500	SAR
650	Chlorodecane, 1-	1002-69-3	350	1,000	1,500	7,500	Alkane REL-TWA, REL-C
651	Chlorodiethylaluminum; (Diethylaluminum chloride)	96-10-6	8.94	26.82	200	500	TLV-TWA, rat 15 min LC50
652	Chlorodifluoromethane	75-45-6	3,500	4,000	30,000	30,000	TLV-TWA, rat 15 min LC50, rat TClo.
653	Chloroethanesulfonyl chloride, 2-	1622-32-8	1.25	3.5	25	150	LOC, rat 240 min LC50.
654	Chloroethyl chloroformate	627-11-2	4	12.5	20	20	LOC, mouse 10 min LC lo..
655	Chloroethyl vinyl ether, 2-; (Ethene, 2-chloroethoxy-)	110-75-8	1	3	20	100	Rat 240 min LC lo.
656	Chloroethylchloromethylsulfide, 2-	2625-76-5	0.02	0.06	0.1	1.5	Sulfur mustard (505-60-2) AEGLs
657	Chloroform	67-66-3	10	10	312	15,600	REL-STEL, REL-STEL, AEGL-2, AEGL-3
658	Chloroform-D; (Deuterated chloroform)	865-49-6	10	10	250	2,500	Chloroform TLV-TWA, REL-STEL, PEL-C, IDLH.
659	Chloro-m-cresol, 4-	59-50-7	7.5	20	150	500	RAT ORAL LD50.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
660	Chloromethyl methyl ether	107-30-2	0.3	0.75	1.55	6.58	AEGL/5, AEGL*3/5, AEGL-2, AEGL-3.
661	Chloromethyl(trichloro)silane	1558-25-4	0.1	0.35	2	10	Mouse 120 min LC50
662	Chloromethylated aminated styrene-divinylbenzene resin; (Bio-Rad AG1-X8 anion exchange resin, formate form)	60177-39-1	10	30	50	250	Used PNOS default.
663	Chloro-methyl-isothiazolin-3-one, 5-	26172-55-4	0.2	0.6	1	1	MAK-TWA, mouse skin TD lo.
664	Chloronaphthalene, 1- (alpha)	90-13-1	6	20	125	500	Rat oral LD50.
665	Chloronaphthalene, 2- (beta)	91-58-7	0.2	0.6	1	500	Rat oral LD50.
666	Chloronitrobenzene, p-; (p-Nitrochlorobenzene)	100-00-5	1	1.92	100	100	PEL-TWA, TLV-TWA, mouse oral TD lo, IDLH.
667	Chloroperoxybenzoic acid, 3-	937-14-4	0.3	1	6	35	Mouse skin TD lo.
668	Chlorophacinone	3691-35-8	0.2	0.6	1	1	LOC, rat oral LD50.
669	Chlorophenol, 4-; (p-Chlorophenol)	106-48-9	250	400	400	400	Human 480 min TClo, mouse 120 min LClo
670	Chlorophenol, m-	108-43-0	0.3	0.75	6	250	Mouse skin TD lo, rat oral LD50.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
671	Chlorophenol, o-	95-57-8	2	6	40	300	Rat oral TD lo, rat oral LD50.
672	Chlorophenyl phenyl ether, 4-	7005-72-3	0.0025	0.0075	0.05	0.25	Human TClo.
673	Chlorophenyl thiourea, 2-	5344-82-1	0.75	2.5	4.6	4.6	LOC, rat oral LD50.
674	Chloropicrin/Methyl bromide mixture	8004-09-9	2	3	12.5	60	Ratios of concentration limits of components.
675	Chloropicrin/Methyl chloride mixture	z-0007	2	2	6	30	Ratios of concentration limits of components.
676	Chloropicrin; (Trichloronitromethane)	76-06-2	0.7	0.7	2	10	PEL-TWA, ERPG-1, ERPG-2, ERPG-3.
677	Chloroprene; (Neoprene)	126-99-8	3.5	3.5	3.5	1,000	REL-C, IDLH.
678	Chloropropanol, 3-; (1-Propanol, 3-chloro)	627-30-5	10	30	200	500	Rat oral LD50.
679	Chloropropionitrile, 3-	542-76-7	1.5	4	7.5	40	LOC, rat oral LD50.
680	Chloropropyl)trimethoxysilane, 3-;(3-(Trimethoxysilyl)propyl chloride)	2530-87-2	75	250	1,500	3,000	Rat TClo, rat oral LD50.
681	Chloropropylene, 2-	557-98-2	3,000	10,000	60,000	100,000	Rat TClo, mouse 120 min LC50.

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The "Source of PACs" column will be enhanced in the near future to improve the clarity and completeness of its information.

Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
682	Chloropropyl-n-octylsulfoxide, 3-	3569-57-1	1.5	5	8	500	LOC, rat oral LD50.
683	Chloro-p-toluenesulfonamide, sodium salt, n-; (Chloramine T) (see also SFV550)	127-65-1	2.5	7.5	50	250	Mouse uk LDlo.
684	Chlorosarin; (o-Isopropyl methylphosphonochloridate)	1445-76-7	0.0075	0.025	0.04	0.125	Used Sarin 60 min AEGLs
685	Chlorosoman; (o-Pinacolyl methylphosphonochloridate)	7040-57-5	0.25	0.75	5	25	Rat sc LD50
686	Chlorosulfonic acid; (Chlorosulfuric acid)	7790-94-5	0.1	2	10	30	WEEL-TWA, ERPG-1, ERPG-2, ERPG-3.
687	Chlorothalonil; (Tetrachloroisophthalonitrile)	1897-45-6	3	7.5	30	30	Rat oral TD lo, rat 60 min LC50.
688	Chlorotoluene, 2-; (o-Chlorotoluene)	95-49-8	250	400	2,000	10,000	TLV-TWA, REL-STEL, rat 240 min LC lo.
689	Chlorotoluene, 4-; (p-Tolyl chloride)	106-43-4	125	350	2,500	12,500	Mouse 120 min LC50.
690	Chlorotrifluoroethene, homopolymer	9002-83-9	0.015	0.04	0.3	500	Rat oral TD lo, rat 240 min LC lo.
691	Chlorotrifluoroethylene	79-38-9	20	95	475	1,425	WEEL-TWA, ERPG-1, ERPG-2, ERPG-3.
692	Chlorotrifluoromethane; (CFC-13)	75-72-9	4,000	12,500	20,000	100,000	MAK-TWA.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
693	Chlorovinylarsine dichloride; (Lewisite)	541-25-3	0.12	0.12	0.12	0.74	AEGL-2, AEGL-2, AEGL-2, AEGL-3.
694	Chloroxuron	1982-47-4	2	6	10	500	LOC, rat 360 min LC50.
695	Chlorpyrifos; (Dursban)	2921-88-2	0.1	0.6	15	20	TLV-TWA, REL-STEL, mouse oral TD lo, rat 240 min LC50.
696	Chlorsulfuran	64902-72-3	0.125	0.35	2.5	500	Rat oral TD lo, rat 240 min LC50 minimum.
697	Chlorthiophos	21923-23-9	0.35	1	7.8	7.8	LOC, RTECS rat oral LD50
698	Chromates	13907-45-4	0.0096	0.288	0.5	28.8	Cr VI concentration limits. TEELs are minima.
699	Chromic acetate; (Chromium(III) acetate)	1066-30-4	2.2	6.61	11	110	Cr III concentration limits.
700	Chromic acid ester	11115-74-5	0.0113	0.339	6	34	Cr IV concentration limits.
701	Chromic chloride; (Chromium(III) chloride)	10025-73-7	1.52	4.57	7.61	76.1	Cr III concentration limits.
702	Chromic oxide (Chromium(III) oxide, chromium sesquioxide)	1308-38-9	0.731	15	36.5	36.5	Cr III concentration limits.
703	Chromic sulfate; (Chromium(III) sulfate (2:3))	10101-53-8	1.89	2.5	15	94.3	Cr III concentration limits.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
704	Chromic trihydroxide; (Chromic(III) acid)	1308-14-1	0.991	1.25	10	49.5	Cr III concentration limits.
705	Chromic trioxide; (Chromium(VI) oxide (1:3))	1333-82-0	0.0096	0.0096	0.06	28.8	Cr VI concentration limits.
706	Chromic(VI) acid	7738-94-5	0.0113	0.339	6	34	Cr VI concentration limits.
707	Chromite; (Chromite (mineral))	1308-31-2	1.08	3.23	5.38	500	Cr II concentration limits.
708	Chromium	7440-47-3	1	1.5	2.5	250	Concentration limits
709	Chromium nitrate	10103-47-6	4.74	14.2	23.7	237	Cr(III) inorganic concentration limits.
710	Chromium nitrate nonahydrate	7789-02-8	3.85	11.5	20	192	Cr(III) concentration limits
711	Chromium perchlorate, hydrated	13537-21-8	3.37	10.1	16.8	168	Cr(III) inorganic concentration limits.
712	Chromium(III) acetate hydroxide	39430-51-8	2.4	7.21	12.5	120	Cr(III) concentration limits
713	Chromium(III) chloride, hexahydrate	10060-12-5	2.56	100	128	128	Cr(III) PEL-TWA, IDLH, rat oral TD lo.
714	Chromium(III) fluoride	7788-97-8	1.05	3.14	5.24	52.4	Cr(III) concentration limits.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
715	Chromium(III) nitrate	13548-38-4	2.29	6.87	11.4	114	Cr(III) concentration limits
716	Chromium(III) oxide hydroxide; (Chromium oxyhydroxide)	20770-05-2	0.817	1	7.5	40.9	Cr(III) concentration limits
717	Chromium(III) potassium sulfate (1:1:2), dodecahydrate	7788-99-0	4.8	14.4	40	240	Cr(III) concentration limits.
718	Chromium(VI) hydroxide	12626-43-6	0.005	0.03	0.1	15	Cr(VI) concentration limits
719	Chromous chloride; (Chromium(II) chloride (1:2))	10049-05-5	1.18	3.55	6	500	Cr(II) concentration limits
720	Chrysene (coal tar volatile)	218-01-9	0.2	0.6	1	80	PEL-TWA, mouse skin TD lo, IDLH.
721	Cinnamaldehyde	104-55-2	1.25	4	30	500	Mouse sk TD lo, rat oral LD50.
722	Cinnamaldehyde, (E); (trans-Cinnamaldehyde)	14371-10-9	0.5	1.5	10	1,500	Rat oral TD lo, rat oral LD50.
723	Citric acid	77-92-9	12.5	35	250	500	Rat oral LD50.
724	Citric acid monohydrate	5949-29-1	1.5	4	30	150	Rat ip LD50.
725	Citric acid, trisodium salt, dihydrate	6132-04-3	6	20	125	500	Rat ip LD50

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
726	Coal tar pitch volatiles; (Particulate polycyclic aromatic hydrocarbons)	65996-93-2	0.2	0.6	12.5	80	PEL-TWA, rat it TD lo, IDLH.
727	Coal tar, aerosol	8007-45-2a	0.1	1.25	7.5	40	REL-TWA, rat TClo.
728	Coal tar; (Coal tar volatiles)	8007-45-2b	0.2	80	80	80	PEL-TWA, mouse TClo, IDLH.
729	Cobalt	7440-48-4	0.1	3	20	20	PEL-TWA, LOC, IDLH.
730	Cobalt acetate tetrahydrate; (Cobaltous acetate tetrahydrate)	6147-53-1	3	7.5	60	300	Rat oral LD50
731	Cobalt carbonyl	10210-68-1	0.27	0.27	27	60	As Co, PEL-TWA, LOC, rat 240 min LC50
732	Cobalt chloride	7646-79-9	0.0441	0.132	25	500	As Co, PEL-TWA, child oral TD lo, infant oral LDlo
733	Cobalt hydrocarbonyl	16842-03-8	0.13	0.13	0.13	0.42	TLV-TWA, ERPGs
734	Cobalt hydroxide	21041-93-0	0.0315	0.0946	0.158	0.75	As Co, PEL-TWA.
735	Cobalt nitrate hexahydrate; (Cobaltous nitrate hexahydrate)	10026-22-9	0.0988	0.296	0.5	98.8	As Co, TLV-TWA, IDLH.
736	Cobalt nitrate; (Cobalt(II) nitrate)	10141-05-6	0.0621	0.186	12.5	150	As Co, TLV-TWA, rat oral LD50

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
737	Cobalt nitrite	z-0009	0.0512	0.154	0.256	1.25	As Co, TLV-TWA.
738	Cobalt oxide	1308-06-1	0.136	0.136	0.136	500	As Co, TLV-TWA, rat oral LD50
739	Cobalt sulfate	10124-43-3	0.0526	0.158	0.263	150	As Co, TLV-TWA, rat oral LD50
740	Cobalt sulfate heptahydrate; (Cobalt(II) sulfate(1:1), heptahydrate)	10026-24-1	0.0954	0.286	250	250	As Co, TLV-TWA, rat TClo, rat oral LD50.
741	Cobalt tetraphenylporphine	14172-90-8	10	30	50	250	Used PNOS default
742	Cobalt(II) chloride hexahydrate	7791-13-1	0.0808	0.242	20	80.8	As Co, TLV-TWA, rat sc TD lo, IDLH.
743	Cobalt(II) oxide	1307-96-6	0.127	0.127	20	75	As Co, TLV-TWA, rat oral LD50
744	Cobalt(ii) perchlorate, hexahydrate	13478-33-6	0.124	0.373	0.621	60	Co inorganic compound TLV-TWA, mouse ip LD50.
745	Cobalt(II) sulfate hydrate	60459-08-7	0.0587	0.176	0.3	294	As Co, TLV-TWA, IDLH.
746	Cobalt, ((2,2'-(1,2-ethanediylobis(nitrilomethylidene))bis(6-fluorophenolato))(2-)-N,N',O,O')-	62207-76-5	0.15	0.4	3	15	LOC, rat 360 min LC50
747	Cobaltous bromide; (Cobalt(II) bromide)	7789-43-7	0.0742	0.223	0.371	150	As Co, TLV-TWA, rat oral LD50

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
748	Cobaltous carbonate	513-79-1	0.0404	0.121	0.202	250	As Co, TLV-TWA, rat oral LD50
749	Colchicine	64-86-8	0.04	0.125	0.9	0.9	LOC, human oral LDlo.
750	Copper	7440-50-8	1	1	1	100	As Cu, PEL-TWA, IDLH.
751	Copper cyanide	544-92-3	1.41	4.23	7.05	25	As Cu, TLV-TWA, CN IDLH.
752	Copper hydroxide	20427-59-2	1.54	4.61	7.68	400	As Cu, PEL-TWA, rat oral LD50.
753	Copper nitrate; (Cupric nitrate)	3251-23-8	0.148	0.444	60	295	As Cu, TLV-TWA, IDLH.
754	Copper oxide	1317-39-1	0.113	3.38	15	113	As Cu, PEL-TWA, IDLH.
755	Copper sulfate	7758-98-7	2.51	2.51	6	40	As Cu, TLV-TWA, human oral TD lo, human uk LDlo.
756	Copper(I) chloride; (Cuprous chloride)	7758-89-6	0.0779	0.234	0.4	60	As Cu, TLV-TWA, rat oral LD50.
757	Copper(I) sulfide	22205-45-4	1.25	3.76	6.26	30	As Cu, TLV-TWA.
758	Copper(II) carbonate hydroxide (2:1:2)	12069-69-1	0.174	0.522	0.87	174	As Cu, MAK-TWA, IDLH.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
759	Copper(II) acetate monohydrate	6046-93-1	0.314	7.5	60	300	As Cu, MAK-TWA, rat oral LD50.
760	Copper(II) chloride (1:2); (Cupric chloride)	7447-39-4	0.106	0.317	0.529	3	As Cu, TLV-TWA, mouse ip TD lo, mouse ip LD50.
761	Copper(II) chloride dihydrate; (Cupric chloride)	10125-13-0	0.134	0.402	0.671	268	As Cu, TLV-TWA, rat sc TD lo, IDLH.
762	Copper(II) oxalate	814-91-5	2.42	7.25	12.5	242	As Cu, TLV-TWA, IDLH.
763	Copper(II) perchlorate, dihydrate	17031-32-2	4.7	14.1	23.5	23.5	As Cu, TLV-TWA, rat ip LD50.
764	Copper(II) sulfate pentahydrate	7758-99-8	0.393	1.18	150	200	As Cu, MAK-TWA, human oral TD lo, human oral LDlo.
765	Copper(II) sulfide	1317-40-4	1.5	4.51	7.52	150	As Cu, MAK-TWA, IDLH.
766	Corn oil	8001-30-7	200	500	500	500	Pregnant rat oral TD lo, rat oral LD50 minimum. Four day rat oral TD lo ignored.
767	Coumaphos	56-72-4	0.5	1.5	30	125	TLV-TWA, LOC, rat LC50.
768	Coumarin	91-64-5	0.025	0.075	0.6	125	Woman oral TD lo, rat oral LD50.
769	Coumatetralyl; (Endrocide)	5836-29-3	3	10	16.5	16.5	LOC, rat oral LD50.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
770	Creosote (coal tar)	8001-58-9	0.2	0.6	80	80	PEL-TWA, rat oral TD lo, IDLH.
771	Cresols	1319-77-3	20	60	100	1,000	PEL-TWA, LOC, IDLH.
772	Cresyl violet acetate	10510-54-0	10	30	50	250	Used PNOS default.
773	Crimidine; (Castrix)	535-89-7	0.25	0.75	1.2	1.2	LOC, rat oral LD50.
774	Cristobalite	14464-46-1	0.05	0.15	7.5	25	TLV-TWA, HUMAN TClo, IDLH.
775	Crocidolite	12001-28-4	0.005	0.015	5	250	PEL-TWA, REL-C, rat ip LDlo.
776	Crotonaldehyde	4170-30-3	0.544	0.544	12.6	40.1	AEGL-1/3, AEGL-1, AEGL-2, AEGL-3.
777	Crotonaldehyde, trans-	123-73-9	0.15	0.544	12.6	40.1	AEGL-1/3, AEGL-1, AEGL-2, AEGL-3.
778	Crotonic Acid	3724-65-0	4	12.5	75	400	Rat oral LD50.
779	Crystal violet; (Aniline violet)	548-62-9	0.075	0.25	1.5	150	Rat ip TD lo, rat oral LD50.
780	Cs7SB; (1-(2,2,3,3-tetrafluoropropoxy),3-(4-sec-butylphenoxy)-2-propanol)	308362-88-1	11.1	30	200	500	Fluoride concentration limits.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
781	Cumene hydroperoxide; (Isopropylbenzene hydroperoxide)	80-15-9	6	30	150	150	WEEL-TWA, rat TClo, rat LC50.
782	Cumene; (Isopropyl benzene)	98-82-8	246	246	1,470	3,590	PEL-TWA, AEGL-1, AEGL-2, AEGL-3.
783	Cumenol methylcarbamate, m-; (3-(1-methylethyl)phenol methylcarbamate)	64-00-6	3	10	16	16	LOC, rat oral LD50.
784	Cupferron; (Ammonium-n-nitrosophenylhydroxylamine)	135-20-6	7.5	25	75	75	Rat oral TD lo, rat oral LD50.
785	Cupric acetate, anhydrous; (Copper acetate)	142-71-2	0.143	0.429	3.5	200	As Cu, TLV-TWA, rat sc TD lo, rat oral LD50.
786	Cupric nitrate hemipentahydrate	19004-19-4	3.8	11.4	19	380	As Cu, TLV-TWA, IDLH.
787	Cupric nitrite	14984-71-5	0.122	0.184	0.6	60	SAR
788	Cupric oxide	1317-38-0	0.125	0.376	0.626	125	As Cu, PEL-TWA, IDLH.
789	Cyanamide	420-04-2	2	6	30	35	TLV-TWA, rat oral TD lo, rat 240 min LC lo.
790	Cyanic acid; (Hydrogen cyanate)	420-05-3	0.06	0.2	1.25	6	Human LC50 based on estimated HHR = 3+
791	Cyanide	57-12-5	5	5	5	25	PEL-TWA, IDLH.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
792	Cyanoacetamide	107-91-5	6	20	150	500	Mouse oral LD50.
793	Cyanogen	460-19-5	20	20	20	40	TLV-TWA, human TClo, rat 60 min LC50.
794	Cyanogen bromide	506-68-3	20.4	44	44	44	PEL-TWA, LOC, IDLH.
795	Cyanogen chloride	506-77-4	0.75	0.75	1	10	TLV-C, TLV-C, ERPG-2, ERPG-3.
796	Cyanogen iodide	506-78-5	35	100	180	180	LOC, rat sc LDlo.
797	Cyanoguanidene	461-58-5	0.5	1.5	10	200	Rat TClo, rat oral LD50.
798	Cyanophos	2636-26-2	1.25	3.5	25	25	LOC, rat oral LD50
799	Cyanuric acid; (1,3,5-Triazine-2,4,6-triol)	108-80-5	10	10	25	500	WEEL-TWA, rat oral TD lo, rat oral LD50.
800	Cyanuric fluoride; (2,4,6-Trifluoro-s-triazine)	675-14-9	0.17	0.17	0.17	74.8	PEL-TWA and IDLH as CN, LOC.
801	Cyclohexane	110-82-7	1,000	1,000	1,500	4,000	PEL-TWA, IDLH.
802	Cyclohexane-1,2-dinitrilotetraacetic acid, trans; (CyDTA)	13291-61-7	10	30	50	250	Used PNOS default.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
803	Cyclohexanedimethanol, cis and trans, 1,4-	105-08-8	12.5	40	250	500	Rat oral LD50.
804	Cyclohexanol	108-93-0	200	200	200	1,500	PEL-TWA, human TClo, IDLH
805	Cyclohexanone; (Ketoexamethylene)	108-94-1	200	200	200	2,500	PEL-TWA, human TClo, IDLH
806	Cyclohexene	110-83-8	1,000	1,000	1,500	6,000	PEL-TWA, rat TClo, IDLH
807	Cycloheximide	66-81-9	0.1	0.3	2	2	LOC, rat oral LD50.
808	Cyclohexyl methyl phosphonic acid	1932-60-1	10	30	50	250	Used PNOS default.
809	Cyclohexylamine	108-91-8	7.3	7.3	34.9	122	AEGL-1, AEGL-1, AEGL-2, AEGL-3
810	Cyclohexylamino)-1-propanesulfonic acid, 3-;(CAPS)	1135-40-6	1.25	4	25	125	Quail oral LD50 minimum.
811	Cyclohexylethanol, 2-	4442-79-9	4	10	75	400	Rat oral LD50.
812	Cyclooctadiene, 1,5-	111-78-4	400	1,250	7,500	40,000	Rat TClo.
813	Cyclooctane	292-64-8	75	250	2,000	10,000	Estimated LC50.

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The "Source of PACs" column will be enhanced in the near future to improve the clarity and completeness of its information.

Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
814	Cyclooctatetraene, 1,3,5,7-	629-20-9	250,000	250,000	1,000,000	1,500,000	Simple asphyxiant
815	Cyclooctene, cis-	931-87-3	3.5	10	60	350	Estimated LD50 based on HHR.
816	Cyclopentane	287-92-3	1,500	5,000	10,000	40,000	TLV-TWA, LOC, rat LC50
817	Cyclopentanone	120-92-3	75	75	400	2,000	Danish OEL, rat LC50.
818	Cyclopropane	75-19-4	300	1,000	6,000	100,000	Human TClo, mouse 120 min LC lo.
819	Cyclotetramethylene tetranitramine; (HMX)	2691-41-0	0.04	0.125	0.75	500	Rat oral TD lo, rat oral LD50.
820	Cyclotol; (RDX-TNT mixture)	z-0010	0.2	3	250	250	TLV-TWA, REL-STEL, rat oral TD lo, rat oral LD50.
821	Cyclotrimethylenetrinitramine; (RDX or Cyclonite)	121-82-4	0.5	3	40	40	TLV-TWA, REL-STEL, child oral TD lo, rat oral LD50.
822	Cytidine monophosphate; (Cytidine 5-monophosphate free acid)	63-37-6	7.5	25	150	500	Mouse ip LDlo minimum.
823	Dawsonite; (Crystalline dehydroxy sodium aluminum, carbonate)	12011-76-6	3.5	10	150	500	SAR
824	DDD (1,1-bis(4-Chlorophenyl)-2,2-dichloroethane)	72-54-8	12.5	35	250	500	Rat oral TD lo, human oral LDlo.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
825	DDE; (2,2-bis(p-Chlorophenyl)-1,1-dichloroethylene)	72-55-9	4	12.5	75	400	Rat oral TD lo, rat oral LD50.
826	DDT (Dichlorodiphenyltrichloroethane)	50-29-3	1	1	2	500	PEL AND TLV-TWA, human oral TD lo, IDLH.
827	DEAE SEPHAROSE CL-6B	62610-50-8	10	30	50	250	Used PNOS default
828	Decaborane	17702-41-9	0.3	0.75	10	15	PEL-TWA, TLV-STEL, LOC, IDLH
829	Decafluoropentane, 1,1,1,2,3,4,4,5,5,5-	138495-42-8	2,000	2,000	4,000	12,500	DuPont OEL-TWA OEL-C, rat 240 min LC50.
830	Decahydronaphthalene	91-17-8	2.5	7.5	50	400	Human TClo, rat 240 min LC50.
831	Decahydronaphthalene, cis-; (cis-Decalin)	493-01-6	2.5	7.5	50	400	Human TClo, rat 240 min LC50.
832	Decahydronaphthalene, trans-; (trans-Decalin)	493-02-7	2.5	7.5	50	400	Human TClo, rat 240 min LC50.
833	Decamethylcyclopentasiloxane	541-02-6	15	50	350	500	Pregnant rat subcutaneous TD lo, rat 240 min LC50
834	Decanal	112-31-2	15	40	300	1,500	Rat oral LD50.
835	Decane	124-18-5	0.4	1	7.5	25,000	Mouse skin TD lo, mouse 120 min LC50.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
836	Decene, 1-, homopolymer, hydrogenated	68037-01-4	10	30	50	250	Used PNOS default.
837	Decyl alcohol; (1-Decanol)	112-30-1	4	12.5	75	500	Rabbit TClo, rat oral LD50.
838	Demeton	8065-48-3	0.1	0.15	2	10	PEL- and TLV-TWA, LOC, IDLH.
839	Demeton-s-methyl	919-86-8	0.05	0.15	5	200	TLV-TWA, LOC, rat 240 min LC50.
840	Deoxyribonucleic acid; (DNA)	9007-49-2	12.5	35	250	500	Mouse ip LDlo minimum.
841	Deuterium	7782-39-0	10,000	10,000	35,000	60,000	Simple asphyxiant
842	Deuterium oxide; (Heavy water)	7789-20-0	1,500	5,000	35,000	150,000	Mouse oral TD lo.
843	Deuteriochloric acid; (Deuterium chloride)	7698-05-7	3	3	7.5	75	H.Cl MAK-TWA, PEL-C, IDLH.
844	Dextran	9004-54-0	0.35	1	6	500	Women iv TD lo, mouse sc LD50.
845	Dextran sulfate sodium	9011-18-1	15	40	300	500	Rat oral TD lo, rat oral LD50.
846	Di(ethylene glycol) diacrylate	4074-88-8	1	3	20	100	Rat oral LD50

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
847	Di-2-ethylhexyl adipate	103-23-1	50	150	500	500	Rat ip TD lo, rat oral LD50.
848	Diacetoxydibutyl stannane	1067-33-0	0.296	0.592	7.5	73.9	Sn organic PEL-TWA, TLV-STEL, rat oral TD lo preg, IDLH.
849	Diacetyl peroxide; (Acetyl peroxide)	110-22-5	7.5	20	150	500	Mouse uk TD lo.
850	Dialifor	10311-84-9	1	3	5	5	LOC, rat oral LD50.
851	Diallyl phthalate	131-17-9	1	1	300	300	Other TWA, MAK-STEL, rat oral TD lo, rat oral LD50.
852	Diallyldimethylammonium chloride	7398-69-8	25	75	500	500	Mammal oral TD lo, mouse oral LD50.
853	Diallyldimethylammonium chloride polymer	26062-79-3	12.5	35	250	500	Rat oral TD lo, rat oral LD50.
854	Diaminodiphenyl ether, 4,4'-; (4,4'-Oxydianiline)	101-80-4	0.5	1.5	10	300	Rat oral TD lo, rat oral LD50.
855	Diaminodiphenylsulfone; (4,4'-Sulfonyldianiline)	80-08-0	1	3	20	400	Human oral TD lo, rat oral LD50.
856	Diaminodipropylamine, 3,3-; (Aminobis(propylamine))	56-18-8	3	7.5	60	300	Rat oral LD50.
857	Diaminopyridine, 2,6-	141-86-6	0.4	1.25	7.5	40	Mouse ip LD50.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
858	Diammonium molybdate	27546-07-2	8.81	8.81	8.81	500	Mo soluble compound concentration limits.
859	Diamond	7782-40-3	7.5	20	150	500	Mouse ip TD lo and ip LD50.
860	Dianisidine dihydrochloride, o-; (3,3'-Dimethoxybenzidine dihydrochloride)	20325-40-0	0.1	0.35	2.5	7.5	Rat oral TD lo, rat oral LDlo.
861	Diatomaceous earth (flux calcinated; Filter agent, celite)	68895-54-9	0.3	0.9	1.5	500	MAK-TWA, IDLH.
862	Diatomaceous earth; (Silica-amorphous diatomaceous earth (uncalcined))	61790-53-2	6	18	30	500	REL-TWA, IDLH
863	Diatomaceous silica, calcined	91053-39-3	0.3	0.9	1.5	500	MAK-TWA, IDLH.
864	Diazabicyclo(2,2,2)octane, 1,4-	280-57-9	1	3	20	500	Rat oral TD lo, rat oral LD50.
865	Diazabicyclo(5.4.0.)undec-7-ene, 1,8-	6674-22-2	1.5	5	35	150	Rat oral LD50 based on HHR = 3.
866	Diazoacetic acid; (Ethyl diazoacetate)	623-73-4	0.2	0.6	4	150	Rat oral TD lo, rat oral LD50.
867	Diazomethane	334-88-3	0.35	1	3.5	3.5	PEL-TWA, rat TClo, IDLH.
868	Dibenza(a,h)anthracene	53-70-3	0.0008	0.0025	0.015	15	Rat sc TD lo, mouse iv LDlo.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
869	Dibenzo(a,e)pyrene; (Naphtho(1,2,3,4-def)chrysene)	192-65-4	0.005	0.015	0.1	0.5	Mouse skin TD lo.
870	Dibenzofuran	132-64-9	10	30	50	250	PNOS default used.
871	Dibenzo-p-dioxin	262-12-4	1.5	4	30	500	Mouse skin TD lo, rat oral LD50.
872	Diborane	19287-45-7	0.1	0.15	1.1	4.19	PEL-TWA, AEGL-2/7, AEGL-2, AEGL-3
873	Dibromo-3-chloropropane, 1,2-; (DBCP)	96-12-8	0.01	0.75	5	150	PEL-TWA, rat TClo, rat 480 min LC50.
874	Dibromo-4-nitrophenol, 2,6-	99-28-5	0.4	1.25	10	50	Mouse iv LD50.
875	Dibromochloromethane; (Chlorodibromomethane)	124-48-1	2	6	40	150	Mouse oral TD lo, rat oral LD50.
876	Dibromohexane, 1,6-	629-03-8	1	3.5	20	100	Mouse ip LD50.
877	Dibromomethane; (Methylene dibromide)	74-95-3	60	200	1,250	7,500	Rat TClo, rat 120 min LC50.
878	Dibromophenol, 2,6-	608-33-3	0.5	0.5	2.5	2.5	SAR
879	Dibromopropane, 1,3-	109-64-8	2	6	40	200	Mouse ip LD50.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
880	Dibromotetrafluoroethane; (Halon 2402)	124-73-2	1,500	5,000	35,000	150,000	Rat 120 min LC50.
881	Dibutyl (2-ethylhexyl)phosphate	z-0011	2.5	7.5	7.5	7.5	SAR
882	Dibutyl butylphosphonate	78-46-6	0.4	1.25	10	50	Mouse iv LD50.
883	Dibutyl peroxide, tert-	110-05-4	7.5	20	150	2,500	Rat TClo, rat 240 min LC50.
884	Dibutyl phosphate	107-66-4	7.5	15	40	250	ILV-TWA, TLV-STEL, IDLH.
885	Dibutyl phosphite	1809-19-4	12.5	40	250	500	Rat oral LD50.
886	Dibutyl phthalate	84-74-2	5	15	500	500	PEL-TWA, rat ip TD lo, IDLH.
887	Dibutylboron triflate; (Dibutylboryl trifluoromethanesulfonate)	60669-69-4	12	36.1	60.1	500	Fluoride concentration limis.
888	Dibutylhexamethylenediamine, N,N'-	4835-11-4	1	3	22	75	LOC, rat 240 min LC50.
889	Dichloran; (2,6-Dichloro-4-nitroaniline; Resisan)	99-30-9	0.004	0.0125	0.075	500	Mouse oral TD lo, rat oral LD50.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
890	Dichloro(4,4-dimethylzinc - 5((((methylamino)carbonyl)oxy)-imino)pentanenitrile), (trans-4)-; (Ethienocarb)	58270-08-9	1.5	5	9	9	LOC, rat oral LD50.
891	Dichloro-1,1,1-trifluoroethane, 2,2-; (HCFC-123)	306-83-2	300	750	6,250	62,500	WEEL-TWA, WEEL-TWA*3, ERPG-2, ERPG-3.
892	Dichloro-1-fluoroethane, 1,1-; (HCFC-141b; Freon 141)	1717-00-6	2,500	4,780	8,130	14,300	WEEL-TWA, AEGL-1, AEGL-2, AEGL-3
893	Dichloro-2-butene 1,4-	764-41-0	0.025	0.075	12.5	750	TLV-TWA, rat TClo, mouse 240 min LC50.
894	Dichloro-2-propanol, 1,3-	96-23-1	30	75	250	250	Mouse TClo, rat 240 min LC lo.
895	Dichloro-2-trifluoromethylbenzimidazole, 4,5-; (Chloroflurazole)	3615-21-2	2.5	7.5	13	13	LOC, rat oral LD50.
896	Dichloroacetic acid	79-43-6	2.5	50	400	1,250	TLV-TWA, rat oral TD lo, rat oral LD50.
897	Dichloroacetyl chloride	79-36-7	0.075	0.241	9.64	313	AEGL-1/3, AEGL-1, AEGL-2, AEGL-3.
898	Dichloroacetylene	7572-29-4	0.4	0.4	15	15	TLV-C, mouse 360 min LC50.
899	Dichloroamine; (Chlorimide)	3400-09-7	1	3	20	100	Rat oral TD lo.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
900	Dichlorobenzene, m-	541-73-1	4	12.5	75	400	Mouse ip LD50.
901	Dichlorobenzene, o-	95-50-1	150	300	300	1,250	TLV-TWA, TLV-STEL, PEL-C, IDLH.
902	Dichlorobenzene, p-	106-46-7	400	400	400	750	PEL-TWA, PEL-STEL, IDLH.
903	Dichlorobenzidene 3,3'-	91-94-1	2	6	40	2,000	Rat oral TD lo, rat oral LD50.
904	Dichlorocyclohexane, 1,1-	2108-92-1	1.5	4	35	150	SAR
905	Dichlorocyclohexane, trans-1,2-	822-86-6	75	250	500	500	Estimated rat TClo, mouse 120 min LC50.
906	Dichlorodifluoromethane; (Freon 12, CFC 12)	75-71-8	5,000	15,000	50,000	75,000	PEL-TWA, EEGL-60 min. IDLH.
907	Dichloroethanol acetate, 1,2-	10140-87-1	2	6	10	40	LOC, rat 240 min LC lo.
908	Dichloroethyl ether; (1,1'-Oxybis(2-chloro)ethane)	111-44-4	30	60	150	600	TLV-TWA, TLV-STEL, LOC, IDLH.
909	Dichloroethylaluminum	563-43-9	9.41	9.41	9.41	9.41	TLV-TWA as Al, soluble salts.
910	Dichloroethylbenzene; (Ethylchlorobenzene)	1331-29-9	20	60	500	500	Rat oral LD50.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
911	Dichloroethylene, 1,2-	540-59-0	750	2,000	4,000	4,000	PEL-TWA, IDLH
912	Dichloroethylene, cis-1,2-	156-59-2	555	555	1,980	3,370	TLV-TWA, AEGL-1, AEGL-2, AEGL-3.
913	Dichloroethylene, cis-and trans-1,2-	156-60-5	750	1,110	3,960	6,740	TLV-TWA, AEGL-1, AEGL-2, AEGL-3.
914	Dichlorofluoromethane; (Freon 21, CFC 21)	75-43-4	40	125	400	20,000	TLV-TWA, EEGL60 min, IDLH.
915	Dichlorohexane, 1,2-	2162-92-7	1.5	4	35	150	SAR
916	Dichloroisopropyl ether	108-60-1	25	75	500	2,500	Rat 300 min LC lo.
917	Dichloromethane-D2	1665-00-5	75	600	2,500	12,500	Used methylene chloride values, D2 replacing H2.
918	Dichloromethoxy ethane; (bis(2-Chloroethoxy)methane)	111-91-1	5	15	40	40	Rat oral TD lo, rat 240 min LC lo.
919	Dichloromethyl ether; (bis(Chloromethyl)ether)	542-88-1	0.004	0.075	0.5	2.4	TLV-TWA, ERPG-2/7, ERPG-2, ERPG-3.
920	Dichloromethylphenylsilane	149-74-6	1	3	20	20	LOC, mouse 120 min LC lo.
921	Dichloromethylphosphine; (Methylphosphonous dichloride)	676-83-5	0.5	1.5	10	50	Rat 240 min LC50, based on SAX hazard rating

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
922	Dichlorophene	97-23-4	6	15	125	500	Rat oral LD50.
923	Dichlorophenol, 2,4-	120-83-2	1.34	1.34	13.4	134	ERPG-1, ERPG-1 , ERPG-2 , ERPG-3 .
924	Dichlorophenol, 2,6-	87-65-0	1.5	5	35	150	Rat ip LD50.
925	Dichlorophenoxyacetic acid, 2,4-; (2,4-D salts and esters)	94-75-7	10	10	40	100	PEL-TWA, rat oral TD lo, rat oral LD50.
926	Dichloropropane	26638-19-7	40	1,250	1,500	1,500	Propylene dichloride limits used.
927	Dichloropropane, 1,1-	78-99-9	15	50	400	2,000	Rat 240 min LC lo.
928	Dichloropropane, 1,2-; (Propylene dichloride)	78-87-5	40	1,250	1,500	1,500	TL V-TWA, mouse TClo, IDLH.
929	Dichloropropane, 1,3-	142-28-9	25	75	500	1,500	Rat oral TD lo, mouse uk LD50..
930	Dichloropropane, 2,2-	594-20-7	20	60	400	2,000	Rat 360 min LC lo minimum.
931	Dichloropropene, 1,1-	563-58-6	4	12.5	20	750	OEL-TWA, rat oral LD50.
932	Dichloropropene, 1,2-	563-54-2	7.5	25	150	750	Rat oral LD50

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
933	Dichloropropene, 1,3-	542-75-6	4	60	250	250	TLV-TWA, mouse TClo, rat 240 min LC50.
934	Dichloropropene, 2,3-	78-88-6	2	6	50	250	Rat 240 min LC lo.
935	Dichloropropene, cis-1,2-; (1,2-dichloro-1-propene, (Z)-)	6923-20-2	7.5	25	150	750	Rat oral LD50.
936	Dichloropropene, cis-1,3-	10061-01-5	4	60	250	250	TLV-TWA, mouse TClo, rat LC50.
937	Dichloropropene, trans-1,3-	10061-02-6	4	6	50	250	TLV-TWA, mouse TClo, rat LC50.
938	Dichlorosilane	4109-96-0	50	150	350	350	Mouse TClo, rat 240 min TClo.
939	Dichlorotetrafluoroethane	1320-37-2	6,000	20,000	35,000	100,000	PEL-TWA, IDLH.
940	Dichlorotetrafluoroethane; (Freon 114, CFC 114)	76-14-2	6,000	20,000	60,000	100,000	PEL-TWA, IDLH.
941	Dichlorovos; (Dichlorvos)	62-73-7	7.5	7.5	20	750	PEL-TWA, LOC, IDLH.
942	Dicrotophos	141-66-2	0.05	0.15	0.9	40	TLV-TWA, LOC, rat 240 min. LC50.
943	Dicyclohexano-18-crown-6	16069-36-6	0.2	0.6	4	75	Rat oral TD lo, rat oral LD50.

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The "Source of PACs" column will be enhanced in the near future to improve the clarity and completeness of its information.

Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
944	Dicyclohexyl; (Cyclohexylcyclohexane)	92-51-3	7.5	25	150	500	Rat oral LD50 based on assumed HHR.
945	Dicyclohexylcarbodiimide	538-75-0	0.0035	0.01	0.06	100	Mouse skin TD lo, rat 360 min LC50.
946	Dicyclopentadiene	77-73-6	0.11	0.11	27	406	ERPG-1, ERPG-1 , ERPG-2 , ERPG-3 .
947	Dieldrin	60-57-1	0.25	0.75	2.5	50	PEL-TWA, rat oral TD lo, IDLH.
948	Diesel fuel marine; (Diesel fuel No. 4)	z-0012	100	350	500	500	TLV-TWA, mu sk TD lo, rat oral LD50
949	Diesel fuel marine; (Fuel oil No.2)	68476-30-2	100	100	100	500	TLV-TWA, mu sk TD lo, rat oral LD50
950	Diesel fuels	68334-30-5	100	100	500	500	TLV-TWA, rat oral LD50.
951	Diethanolamine	111-42-2	2	150	300	300	TLV-TWA, rat oral TD lo, rat oral LD50.
952	Diethenylbenzene, polymer with ethenylbenzene and ethenylethylbenzene, sulfonated; (DOWEX-50-X8 resin)	69011-20-7	10	30	50	250	Used PNOS default.
953	Diethoxydimethylsilane	78-62-6	30	75	600	3,000	Rat 480 min LC50.
954	Diethyl (methylthiomethyl) phosphonate	28460-01-7	0.4	1.25	7.5	40	Rat oral LD50 based on Methyl demeton methyl,

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
955	Diethyl benzene isomers; (Dowtherm J)	25340-17-4	25	55	550	2,750	WEEL-TWA, ERPG-1, ERPG-2, ERPG-3.
956	Diethyl carbonate	105-58-8	12.5	40	300	1,500	Mouse oral TD lo, rat subcutaneous LD50.
957	Diethyl chlorophosphate	814-49-3	0.4	1	8	8	LOC, rat oral LD50.
958	Diethyl ethylphosphonate	78-38-6	2	6	40	500	Rat oral TD lo, rat orsl LD50.
959	Diethyl malonate; (Ethyl malonate)	105-53-3	60	150	1,250	6,000	Rat oral LD50.
960	Diethyl mercury	627-44-1	0.0129	0.0387	0.0516	2.58	As Hg, PEL-TWA, TLV-STEL, PEL-C, IDLH.
961	Diethyl methylphosphonate; (DEMP)	683-08-9	7.5	25	200	500	Mouse ip LD50.
962	Diethyl oxalate	95-92-1	1.5	5	35	150	Rat oral LD50.
963	Diethyl phosphite	762-04-9	15	50	350	500	Rat oral LD50
964	Diethyl phthalate; (Ethyl phthalate)	84-66-2	5	15	100	500	TLV-TWA, human TClo, rat oral LD50.
965	Diethyl pyrocarbonate	1609-47-8	10	30	200	500	Rat 60 min LC lo.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
966	Diethyl sulfate	64-67-5	0.4	1.25	10	150	Female rat iv TD lo, rat 240 min LC lo.
967	Diethyl tartrate	87-91-2	10	30	50	250	PNOS default used.
968	Diethyl telluride	627-54-3	0.1	0.3	6	10	OEL-TWA; rat TClo, rat LC50
969	Diethylamine	109-89-7	40	40	125	600	PEL-TWA, TLV-STEL, IDLH.
970	Diethylaminoacetone	1620-14-0	2.5	7.5	50	250	SAR
971	Diethylaminopropylamine	104-78-9	2	6	50	250	Rat oral LD50.
972	Diethylaniline, n,n-	91-66-7	3	10	60	350	Rat oral LD50.
973	Diethylbenzene, m-	141-93-5	40	125	500	500	Rat oral LDlo.
974	Diethylbenzene, o-	135-01-3	1.5	5	35	500	Rat oral TD lo, rat oral LDlo.
975	Diethylene glycol	111-46-6	10	200	750	750	WEEL-TWA, child oral TD lo, human oral LDlo.
976	Diethylene glycol di(3-aminopropyl) ether; (Polyglycol diamine)	4246-51-9	15	50	350	500	Rat oral LD50.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
977	Diethylene glycol diacetate; (2,2'-oxybisethanol diacetate)	628-68-2	100	300	500	500	Rat oral LDlo.
978	Diethylene glycol dimethyl ether; (Bis(2-methoxy ethyl)ether)	111-96-6	25	75	125	2,000	MAK-TWA, rat oral TD lo, rat oral LD50.
979	Diethylene glycol hexyl ether; (n-Hexyl carbitol;	112-59-4	7.5	25	150	500	Rabbit skin TD lo, rat oral LD50
980	Diethylenetriamine	111-40-0	4	4	6	400	TLV-TWA, rabbit oral TD lo, rat oral LD50.
981	Diethylenetriaminepentaacetic acid	67-43-6	2	6	40	200	Mouse ip LD50.
982	Diethylethanolamine, N,N-	100-37-8	50	50	100	500	PEL-TWA, human TClo, IDLH.
983	Diethylphosphatoethyltriethoxy silane	757-44-8	75	200	500	500	Rat oral LD50.
984	Diethylstilbestrol; ((E)-4,4-(1,2-diethyl-1,2-ethenediyl)bis-phenol, (E))	56-53-1	0.025	0.075	0.6	15	Women oral TD lo, rat ip LD 50.
985	Diethylthiourea, n,n'-	105-55-5	0.6	1.5	12.5	125	Rat oral TD lo, rat oral LD50.
986	Diethylurea, 1,3-	623-76-7	25	75	500	2,500	Mouse ip LDlo.
987	Diethylzinc	557-20-0	10	20	20	50	Estimated TLV-TWA, TLV-STEL, and rat LC50

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
988	Diethylaminoethanol	100-37-8	50	50	100	500	PEL-TWA, human TClo, IDLH.
989	Difluoroethane; (1,1-Difluoroethane; HFC 152a)	75-37-6	2,500	27,035	40,552	67,587	WEEL-TWA, ERPG-1, ERPG-2, ERPG-3.
990	Digitoxin	71-63-6	0.0075	0.025	0.18	0.25	LOC, human oral LDlo.
991	Diglycidyl Ether	2238-07-5	0.5	2.5	50	50	TLV-TWA, LOC, mouse 240 min LC50.
992	Diglycol monoethyl ether acetate; (Carbitol acetate)	112-15-2	40	125	500	500	Rat oral LD50.
993	Digoxin	20830-75-5	0.04	0.125	0.2	0.35	LOC, infant iv LDlo.
994	Dihexyl((diethylcarbamoyl)methyl)phosphonate; (Dihexyl-N,N-diethylcarbamoylmethyl phosphonate)	7369-66-6	4	12.5	75	400	Rat oral LD50.
995	Dihydro-2(3H)-furanone; (4-Butanolide)	96-48-0	2	6	40	500	Rat oral TD lo, rat oral LD50.
996	Dihydro-2h-pyran, 3,4-	110-87-2	1.25	4	30	150	Estimated rat 240 min LC50 based on HR.
997	Dihydro-3-(Nonenyl)-2,5-furandione	28928-97-4	10	30	50	250	Used PNOS default.
998	Dihydro-4-methyl furan, 2,3-	34314-83-5	1.5	5	35	150	Rat 240 min LC50 based on methyl furan.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
999	Dihydrogen hexachloroplatinate; (Chloroplatinic acid)	16941-12-1	0.0042	0.0126	1.5	8.4	As Pt, PEL-TWA, IDLH.
1000	Dihydroxy-1,3-indandione, 2,2-; (Ninhydrin monohydrate)	485-47-2	0.3	1	6	35	Mouse ip LD50
1001	Dihydroxy-2-butene, 1,4-; (2-Butene-1,4-diol)	110-64-5	5	15	100	500	Rat oral LD50.
1002	Dihydroxyanthraquinone, 1,8-	117-10-2	25	75	200	200	Rat oral TD lo, mouse ip LD50.
1003	Dihydroxybenzoic acid, 2,4-	89-86-1	1	3	20	350	Preg rat sc TD lo, mouse ip LD50 minimum.
1004	Dihydroxynaphthalene-2,7-disulfonic acid, disodium salt dihydrate, 4,5-	5808-22-0	10	30	50	250	Used PNOS default.
1005	Diiodomethane; (Methylene iodide)	75-11-6	75	200	500	500	Child oral LDlo.
1006	Diisoamylamine	544-00-3	30	100	150	750	TLV-TWA by analogy with related butyl compounds
1007	Diisobutyl ketone	108-83-8	300	300	300	3,000	PEL-TWA, human TClo. IDLH.
1008	Di-isobutylaluminum hydride; (Diisobutylhydroaluminum)	1191-15-7	60	150	300	5,000	Guinea pig 60 min LC lo.
1009	Diisobutylamine	110-96-3	1	3	20	100	Rat oral LD50.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1010	Diisopropyl methylphosphonate	1445-75-6	3.5	10	75	350	Rat oral LD50.
1011	Diisopropyl peroxydicarbonate	105-64-6	7.5	25	150	500	Rat oral LD50.
1012	Diisopropylamine	108-18-9	20	20	150	750	PEL-TWA, IDLH.
1013	Diisopropylamino)ethyl chloride hydrochloride, 2-(-	4261-68-1	0.0125	0.035	0.25	1.25	Rat 240 min LD50.
1014	Diisopropylaminoethanol, 2-; (N,N-Diisopropyl ethanolamine)	96-80-0	2.5	7.5	50	250	Rat 360 min LC50.
1015	Diisopropylaniline, 2,6-	24544-04-5	35	100	500	500	Rat oral TD lo, rat oral LD50.
1016	Diisopropylbenzene, 1,3-	99-62-7	150	500	500	500	Rat TClo, rat 120 min LC lo.
1017	Diisopropylethylamine, n,n-	7087-68-5	10	30	200	1,000	Rat 240 min LC50 assumed from HHR = 2.
1018	Diisopropylfluorophosphate; (Phosphorofluoridic acid, bis(1-methylethyl) ester)	55-91-4	0.75	2	3.6	3.6	LOC, human oral LDlo.
1019	Diisopropyl naphthalene; (Bis(isopropyl)naphthalene)	38640-62-9	12.5	40	300	500	Mouse oral LD50.
1020	Diketene; (Ketene dimer)	674-82-8	1	3.44	17.2	68.8	ERPG=1/3, ERPG-1, ERPG-2. ERPG-3.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1021	Dilauroyl peroxide	105-74-8	0.003	0.01	0.06	0.35	Mouse skin TD lo.
1022	Dimefox; (bis(Dimethylamido)fluorophosphate)	115-26-4	0.2	0.6	1	1	LOC, rat 10 min LC50
1023	Dimethoate	60-51-5	6	15	30	30	LOC, human oral LD50.
1024	Dimethoxybenzene, 1,3-	151-10-0	3.5	10	75	400	Mouse ip LD50
1025	Dimethoxybenzene, O-	91-16-7	3.5	10	75	400	Rat oral LD50.
1026	Dimethoxybenzidine 3,3'-; (o-Dianisidine)	119-90-4	1.25	4	25	500	Rat oral TD lo, rat oral LD50.
1027	Dimethoxybutane, 1,3-	10143-66-5	40	100	750	4,000	Rat 240 min LC lo.
1028	Dimethoxybutane, 2,2-	3453-99-4	35	100	750	4,000	Estimted rat 240 min LC lo.
1029	Dimethoxydiphenylsilane	6843-66-9	0.15	0.5	3.5	15	Rat 240 min LC minimum.
1030	Dimethoxyethane, 1,2-	110-71-4	12.5	40	300	4,000	Mouse oral TD lo, rat 360 min LC lo.
1031	Dimethoxypropane, 2,2-	77-76-9	1.5	5	35	150	Rat 240 min LC50 based on HHR = 3.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1032	Dimethylglyoxime; (Diacetyldioxime)	95-45-4	2	6	40	200	Rat oral LDlo.
1033	Dimethyl butane, 2,2-	75-83-2	1,500	1,500	1,500	7,500	TLV-TWA, TLV-STEL, REL-C
1034	Dimethyl carbamoyl chloride	79-44-7	0.75	2.5	15	500	Rat TClo, rat 360 min LC50.
1035	Dimethyl carbonate	616-38-6	50	150	1,000	5,000	Rat oral LD50
1036	Dimethyl cyclopentanol, 1,3-	19550-46-0	10	30	50	250	Used PNOS default.
1037	Dimethyl disulfide	624-92-0	0.0125	0.04	193	963	ERPG-1/3, ERPG-1, ERPG-2, ERPG-3.
1038	Dimethyl hydrogen phosphite	868-85-9	20	60	400	500	Rat oral TD lo, rat oral LD50.
1039	Dimethyl mercury	593-74-8	0.0115	0.0345	0.046	2.3	PEL-TWA, TLV-STEL, PEL-C, IDLH.
1040	Dimethyl methylphosphonate; (DMMP)	756-79-6	100	350	500	500	Mouse oral TD lo, rat oral LD50.
1041	Dimethyl phosphorochloridothioate	2524-03-0	1.5	4	32	150	LOC, rat oral LD50.
1042	Dimethyl siloxane; (Syltherm XLT; Silicone 360)	63148-62-9	15	50	350	500	Pregnant rat TD lo.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1043	Dimethyl sulfate	77-78-1	0.124	0.124	0.619	8.25	AEGL-1, AEGL-1, AEGL-3, AEGL-3.
1044	Dimethyl sulfide; (2-Thiopropene)	75-18-3	25	350	2,540	12,700	TLV-TWA, ERPG-2/7, ERPG-2, -3.
1045	Dimethyl sulfone	67-71-0	20	60	400	500	Rat oral LD50 minimum.
1046	Dimethyl sulfoxide; (DMSO)	67-68-5	750	750	750	6,000	WEEL-TWA, human iv TD lo, rat oral LD50.
1047	Dimethyl(1-phenylethyl)benzene	40766-31-2	4	12.5	75	500	Rat oral TD lo, rat oral LD50.
1048	Dimethyl(polysiloxane)	70131-67-8	250	500	500	500	Rat oral LD50 minimum.
1049	Dimethyl-1,3-dioxolane-4-methanol, 2,2-	100-79-8	30	75	600	3,000	Rat oral LD50
1050	Dimethyl-1,3-propanediamine, N,N-; (1-Amino-3-dimethylaminopropane)	109-55-7	10	30	200	750	Rat oral TD lo, rat oral LD50
1051	Dimethyl-1-butanamine, N,N-	927-62-8	200	500	500	500	Rat 240 min LC lo.
1052	Dimethyl-2-pentene, (E)-3,4-	4914-92-5	1.5	5	35	150	Rat oral 240 min LC50 based on HHR.
1053	Dimethyl-3-nitrobenzene, 1,2-	83-41-0	10	30	50	250	Used PNOS default.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1054	Dimethyl-3-pentanone, 2,4-	565-80-0	25	75	500	4,000	Human 180 min TClo, rat 240 min LC50.
1055	Dimethyl-5-phenylphenazinium chloride, 3,7-, diamino-2,8-; (Safranine; Gossypimine)	477-73-6	0.25	0.75	5	25	Rat iv LD50.
1056	Dimethylacetamide, n,n-	127-19-5	35	250	1,000	1,000	PEL-TWA, rat TClo, IDLH
1057	Dimethylacrylamide, N,N-	2680-03-7	0.6	1.5	12.5	200	Rat skin TD lo, mouse oral LD50.
1058	Dimethylamine	124-40-3	15	25	184	644	PEL-TWA, TLV-STEL, ERPG-2, ERPG-3.
1059	Dimethylamino)benzaldehyde, p-(	100-10-7	7.5	25	150	250	Rat ipTD lo, rat ip LD50.
1060	Dimethylamino)phenyl)azo)benzenesulfonic acid, sodium salt, P-((P-; (Methyl orange,sodium salt)	547-58-0	0.25	0.75	5	25	Rat oral LD50
1061	Dimethylaminoazobenzene, 4-	60-11-7	15	50	75	75	Mouse ip TD lo, rat oral LD50.
1062	Dimethylaminoethanol, 2-	108-01-0	40	125	600	600	Rat TClo, rat 240 min LC50.
1063	Dimethylaminoethyl chloride hydrochloride, 2-	4584-46-7	0.6	2	15	100	Rat oral TD lo, rat oral LD50.
1064	Dimethylammonium N,N-dimethylcarbamate	4137-10-4	1.5	5	35	150	Rat oral LD50 based on assumed HHR - 3.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1065	Dimethylaniline, N,N-	121-69-7	25	50	50	500	PEL-TWA, TLV-STEL, rat TClo, IDLH.
1066	Dimethylbenzidine 3,3'-; (o-Tolidine)	119-93-7	0.1	0.3	2	100	REL-C, rat ip LD50.
1067	Dimethylbutyric acid, 2,2-	595-37-9	7.5	25	150	500	Rat oral LD50 based on HHR = 2.
1068	Dimethylcyclohexane, cis-1,4-	624-29-3	3.5	10	60	350	Estimated rat oral LD50.
1069	Dimethyldecane, 2,2-	17302-37-3	350	350	1,500	7,500	NIOSH limits for Alkanes used
1070	Dimethyldichlorosilane	75-78-5	1.5	4.75	68.6	280	AEGL-1/3, AEGL-1, AEGL-2, AEGL-3.
1071	Dimethyldicyclopentadiene	26472-00-4	7.5	25	200	500	Rat TClo, rat oral LD50.
1072	Dimethyldimethoxysilane	1112-39-6	20	60	400	500	Rat 240 LC lo minimum.
1073	Dimethylethyl hydroperoxide, 1,1-; (tert-Butylhydroperoxide)	75-91-2	3	10	60	200	Guinea pig TClo, rat oral LD50.
1074	Dimethylformamide, N,N-	68-12-2	6	6	269	538	ERPG-1, ERPG-1, AEGL-2, AEGL-3.
1075	Dimethylheptane, 2,2-	1071-26-7	350	350	1,500	7,500	NIOSH limits for Alkanes used.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1076	Dimethylhexane, 3,3-	563-16-6	350	350	1,500	7,500	NIOSH limits for Alkanes used.
1077	Dimethylhydrazine, 1,1-	57-14-7	1.25	1.25	7.37	27	PEL-TWA, PEL-TWA, AEGL-2, AEGL-3
1078	Dimethylhydrazine, 1,2-	540-73-8	1.5	4	7.37	27	AEGL-2/5, AEGL-2*3/5, AEGL-2, AEGL-3
1079	Dimethylimidazole, 1,2-	1739-84-0	4	12.5	75	400	Mouse ip LD50.
1080	Dimethylisopropylamin, n,n-	996-35-0	1	3	5	25	MAK-TWA concentration limit.
1081	Dimethylnonane, 4,5.	17302-23-7	750	1,500	1,500	1,500	Estimated TWA and STEL based on nonane-butane ratio.
1082	Dimethyloctane, 3,5-	15869-93-9	600	1,000	3,000	15,000	Estimated TWA and STEL based on octane-butane ratio.
1083	Dimethylphenol, 2,4-; (2,4-Xylenol)	105-67-9	0.3	1	6	500	Mouse skin TD lo, rat oral LD50.
1084	Dimethylphenol, 2,6-; (2,6-Xylenol)	576-26-1	0.75	2	15	125	Rat TClo, rat oral LD50.
1085	Dimethylphthalate	131-11-3	5	15	75	500	PEL-TWA, pregnant rat TD lo, IDLH
1086	Dimethylpolysilane	28883-63-8	0.75	2.5	10	25	Concentration limits based on Trimethoxysilane ERPGs (times 5)

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The "Source of PACs" column will be enhanced in the near future to improve the clarity and completeness of its information.

Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1087	Dimethyl-p-phenylenediamine, N,N-	99-98-9	0.025	0.075	0.13	1	LOC, rabbit 240 min LC lo.
1088	Dimethylpropane, 2,2-; (Neopentane)	463-82-1	1,500	1,500	1,500	150,000	PEL-TWA, REL-C, mouse 120 min LC lo.
1089	Dimethylpyridine, 2,4-; (2,4-Lutidine)	108-47-4	0.75	2.5	15	75	Rat oral LD50.
1090	Dimethyltetramethoxydisiloxane, 1,3-	18186-97-5	10	30	50	250	Used PNOS default.
1091	Dimetilan	644-64-4	5	15	25	25	LOC, rat oral LD50.
1092	Di-N-amylamine	2050-92-2	0.4	1.25	7.5	40	Rat 240 min LC lo.
1093	Di-n-butylamine	111-92-2	1.25	3.5	25	250	WEEL-C, rat 240 min LC lo.
1094	Dinitraniline orange; (Hansa orange RN)	3468-63-1	10	30	50	250	Used PNOS default.
1095	Dinitroaniline, 2,4-	97-02-9	0.035	0.1	0.75	12.5	Pregnant rat TClo, rat oral LD50.
1096	Dinitrobenzene, m-	99-65-0	1	3	5	50	PEL-TWA, rat oral TD lo, IDLH.
1097	Dinitrobenzene, o-	528-29-0	1	3	5	50	PEL-TWA, IDLH.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1098	Dinitrobenzene, p-	100-25-4	1	3	5	50	PEL-TWA, IDLH.
1099	Dinitro-o-cresol, 4,6- and salts	534-52-1	0.2	0.2	0.5	5	PEL-TWA, LOC, IDLH.
1100	Dinitrophenol	25550-58-7	0.25	0.75	5	25	Rat oral LDlo.
1101	Dinitrophenol, 2,3-	66-56-8	0.75	2	15	75	Rat ip LD50.
1102	Dinitrophenol, 2,4-	51-28-5	1.5	5	30	30	Rat oral TD lo, human oral LDlo.
1103	Dinitrophenol, 2,6-	573-56-8	0.15	0.4	3	15	Rat ip LD50.
1104	Dinitro-p-toluidine, 2,6-; (4-Amino-3,5-dinitrotoluene)	6393-42-6	2.5	7.5	50	250	Mouse iv LD50
1105	Dinitrosopiperazine; (Piperazine, 1,4-dinitroso-)	140-79-4	0.5	1.5	10	60	Mouse oral TD lo, rat oral LD 50.
1106	Dinitrotoluene	25321-14-6	0.2	0.6	12.5	50	TLV-TWA, IDLH.
1107	Dinitrotoluene 2,4-	121-14-2	0.2	0.6	30	50	TLV-TWA, IDLH.
1108	Dinitrotoluene 2,6-	606-20-2	0.2	0.6	6	50	TLV-TWA, IDLH.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1109	Dinitrotoluene, 3,4-	610-39-9	0.2	0.6	10	50	TLV-TWA, IDLH.
1110	Dinoseb; (2-sec-Butyl-4,6-dinitrophenol)	88-85-7	0.75	2.5	4.5	10	LOC, cat 180 min LC lo.
1111	Dinoterb; (2-(1,1-Dimethylethyl)-4,6-dinitrophenol)	1420-07-1	5	15	25	25	LOC, rat oral LD50.
1112	Diocetyl phthalate, n-	117-84-0	15	50	400	500	Rat ip TD lo, rat oral LD50.
1113	Diocetyl sebacate; (Bis(2-ethylhexyl) sebacate)	122-62-3	7.5	20	150	500	Rat iv LD50.
1114	Diocetyl sodium sulfosuccinate; (Di-(2-ethylhexyl) sodium sulfosuccinate)	577-11-7	7.5	20	150	500	Rat oral TD lo, rat oral LD50.
1115	Dioxane, 1,4-	123-91-1	61.2	61.2	1,150	2,740	AEGL-1, AEGL-1, AEGL-2, AEGL-3.
1116	Dioxathion	78-34-2	0.1	0.3	3.4	150	TLV-TWA, LOC, rat 60 min LC50.
1117	Dioxine; (TCDD; 2,3,7,8-tetrachlorodibenzo-p-dioxin)	1746-01-6	0.0006	0.0015	0.0075	0.0075	Human skin TD lo, rat oral LD50.
1118	Dioxolane, 1,3-	646-06-0	60	60	200	15,000	TLV-TWA, LOC, mouse 120 min LC50.
1119	Dipentaerythritol; (Dipentek)	126-58-9	10	30	50	250	Used PNOS default.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1120	Dipentyl pentylphosphonate	6418-56-0	25	75	500	500	Rat oral LD ₅₀ minimum.
1121	Diphacinone; (Diphenadione)	82-66-6	0.15	0.5	0.9	500	LOC, rat 240 min LC ₅₀ .
1122	Diphenyl mercury (aryl compound)	587-85-9	0.177	0.177	0.177	17.7	TLV-TWA, PEL-C, IDLH.
1123	Diphenyl o-cresol phosphate; (Diphenyl cresol phosphate)	26444-49-5	2.5	7.5	50	500	Guinea pig skin TD lo, rat oral LD ₅₀ .
1124	Diphenyl; (Biphenyl)	92-52-4	1	3.9	6.5	100	PEL-TWA, human TClo, IDLH.
1125	Diphenylamine	122-39-4	10	30	125	125	TLV-TWA, rat oral TD lo. Guinea pig oral LD ₅₀ .
1126	Diphenylboronic acid	524-95-8	0.4	1.25	10	50	Mouse iv LD ₅₀
1127	Diphenylguanidine, 1,3-	102-06-7	0.2	0.6	4	125	Mouse oral TD lo, rat oral LD ₅₀ .
1128	Diphenylhydrazine, 1,2-	122-66-7	0.2	0.6	4	125	Rat oral TD lo, rat oral LD ₅₀ .
1129	Diphenylmethane	101-81-5	7.5	25	200	500	Rat oral LD ₅₀
1130	Diphenylnitrosamine	86-30-6	7.5	25	150	500	Rat oral TD lo, rat oral LD ₅₀ .

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1131	Diphenyloxazole, 2,5-	92-71-7	3	7.5	60	300	Mouse ip LD50.
1132	Dipicolinic acid; (2,6-Pyridinedicarboxylic acid)	499-83-2	10	30	50	250	Used PNOS default.
1133	Dipotassium cadmium oxide	z-0013	0.0099	0.0594	0.1	17.8	PEL-TWA, TLV-TWA, IDLH.
1134	Dipotassium dihydrogen silicate	z-0014	10	30	50	250	Used PNOS default.
1135	Dipotassium metasilicate	10006-28-7	6	15	125	500	SAR
1136	Dipotassium zirconium oxide	z-0015	11.9	23.8	23.8	119	PEL-TWA, TLV-STEL, IDLH.
1137	Dipropyl ketone; (4-Heptanone)	123-19-3	200	200	300	1,500	TLV-TWA, rat 360 min LC50.
1138	Dipropylamine	142-84-7	15	50	350	500	Rat 240 min LC50.
1139	Dipropylene glycol methyl ether	34590-94-8	600	750	750	2,500	PEL-TWA, TLV-STEL, rat oral LD50.
1140	Direct Black 38; (Apomine black GX)	1937-37-7	25	75	500	500	Mouse oral TD lo, rat 60 min LC lo.
1141	Di-sec-octylphthalate	117-81-7	5	10	75	500	TLV-TWA, REL-STEL, mouse oral TD lo, IDLH.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1142	Disodium (2-ethylhexyl)phosphate	18541-72-5	0.02	0.06	0.4	2	SAR
1143	Disodium 3,6-endoxohexahydrophthalate	129-67-9	1	3	20	20	Rat oral TD lo, rat oral LD50.
1144	Disodium butylphosphate	64114-42-7	0.02	0.06	0.4	2	SAR
1145	Disodium cadmium oxide	z-0016	0.0085	0.0508	0.0847	15.2	PEL-TWA, TLV-TWA, IDLH.
1146	Disodium dihydrogen silicate	z-0017	10	30	50	250	Used PNOS default.
1147	Disodium ethylenediaminediacetate (S and U isomers)	38011-25-5	4	12.5	75	400	SAR
1148	Disodium hexafluorosilicate, 2-	16893-85-9	4.12	4.12	5	5	Fluoride PEL-TWA, human oral LDlo.
1149	Disodium iminodiacetate; (IDA)	928-72-3	35	100	600	3,500	Rat oral LD50
1150	Disulfiram	97-77-8	2	2	3	125	TLV-TWA, women oral TD lo, human oral LDlo.
1151	Disulfoton	298-04-4	0.05	0.15	2	75	TLV-TWA, LOC, rat 240 min LC50.
1152	Di-tert-butyl dicarbonate	24424-99-5	0.4	1.25	7.5	40	Rat 240 min LC50

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1153	Di-tert-butyl-hydroquinone, 2,5-	88-58-4	12.5	40	250	400	Rat oral TD lo, mouse oral LD50.
1154	Dithiazanine iodide; (3,3'-Diethylpentamethinethiacyanine iodide)	514-73-8	4	12.5	20	20	LOC, mouse oral LD50.
1155	Dithiobiuret	541-53-7	1	3	5	5	LOC, rat oral LD50.
1156	Dithiodiethanol, 2,2-; (Dithiodiglycol)	1892-29-1	0.75	2	15	75	Rat oral LD50.
1157	Dithioerythritol, 1,4-	6892-68-8	1.25	4	25	125	Mouse intramuscular LD50.
1158	Diurethane dimethacrylate	72869-86-4	75	250	500	500	Rat oral toxicity based on HHR.
1159	Divinylbenzene, m-; (m-Vinylstyrene)	108-57-6	50	50	400	2,000	REL-TWA, mean rat oral LD50.
1160	Divinylbenzene, mixed isomers; (Vinylstyrene)	1321-74-0	50	60	400	2,000	TLV-TWA, rat oral LD50.
1161	Dodecamethylcyclohexasiloxane	540-97-6	10	30	50	500	SAR
1162	Dodecane	112-40-3	0.125	0.35	2.5	150	Rabbit skin TD lo, rat 480 min LC50 minimum.
1163	Dodecanethiol, 1-; (Dodecyl mercaptan; Lauryl mercaptan)	112-55-0	0.75	2.5	4	20	TLV-TWA, REL-C

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1164	Dodecen-1-yl)succinic anhydride, (2-; (DDSA)	19780-11-1	10	30	50	250	PNOS default used.
1165	Dodecenylsuccinic anhydride	25377-73-5	5	15	100	500	Rat 240 min LC lo.
1166	Dodecyl alcohol	112-53-8	0.4	1	7.5	500	Mouse skin TD lo, rat oral LD50.
1167	Dodecyl methacrylate	142-90-5	50	150	1,000	5,000	Rat ip LD50.
1168	Dodecylbenzene sulfonic acid; (Laurylbenzenesulfonic acid)	27176-87-0	2.5	7.5	50	250	Rat oral LD50.
1169	Dodecylphenol, 4-; (mixture of isomers)	27193-86-8	7.5	25	150	500	Rat oral TD lo, rat oral LD50.
1170	Dodecylsarcosine sodium salt, N-; (N-laurel sarcosine sodium salt)	7631-98-3	1.5	4	30	150	Mouse iv LD50.
1171	Doderyl succine anhydride; (Tetrapropenylsuccinic anhydride)	26544-38-7	10	30	200	500	Rat oral LD50
1172	Dowex 50WX4; (50-400 ion exchange resin)	11113-61-4	10	30	50	250	Used PNOS default.
1173	Dv methyl ester; (Methyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate)	61898-95-1	10	30	50	250	PNOS TLV-TWA default used.
1174	Dysprosium	7429-91-6	10	30	50	250	PNOS default used.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1175	Dysprosium nickelide	12175-27-8	10	30	50	250	Used PNOS default.
1176	Dysprosium nitrate	10143-38-1	10	30	200	500	Rat oral LD50.
1177	Dysprosium oxide; (Dysprosium(III) oxide)	1308-87-8	20	60	400	500	Rat oral LD50 minimum.
1178	Ecolite	z-0018	20	60	400	500	Rat oral LD50.
1179	Emetine dihydrochloride, 1-	316-42-7	0.05	0.15	0.25	0.25	LOC, women sc LDlo.
1180	Endosulfan	115-29-7	0.1	0.3	0.8	35	TLV-TWA, LOC, rat 240 min LC50.
1181	Endothion	2778-04-3	3.5	10	17	17	LOC, rat oral LD50.
1182	Endrin	72-20-8	0.1	0.3	2	2	PEL-TWA, LOC, IDLH.
1183	Epibatadine (nicotine-like)	z-0019	0.0015	0.004	0.025	0.025	Rat ip TD lo, rat ip LD50.
1184	Epibromohydrin	3132-64-7	1.25	3.5	25	125	Mouse ip LD50.
1185	Epichlorohydrin	106-89-8	1.5	21.6	90.8	272	TLV-TWA, AEGL-1, AEGL-2, AEGL-3.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1186	Epinephrine; (Vasotonin; (R)-4-(1-hydroxy-2-(methylamino)ethyl)-1,2-Benzenediol)	51-43-4	0.25	0.25	0.25	0.25	Human oral TD lo, human subcutaneous LDlo.
1187	EPN; (O-Ethyl-O-(4-nitrophenyl) phenylthiophosphonate)	2104-64-5	0.5	0.5	5	5	PEL-TWA, LOC, IDLH.
1188	Epoxy resin; (Epichlorhydrin + diethylene glycol)	25928-94-3	0.06	0.2	1.25	6	Rat 240 min LC lo.
1189	Epoxy resin (EPON 1001)	25068-38-6a	125	350	500	500	Rat oral LD50.
1190	Epoxy resin (EPON 1007)	25068-38-6b	125	350	500	500	Rat oral LD50.
1191	Epoxy resin (EPON 820)	25068-38-6c	50	150	500	500	Rat oral LD50.
1192	Epoxy resin ERL-2795	25068-38-6d	4	12.5	100	500	Rat oral LD50.
1193	Epoxy resin, cured	30583-72-3	10	30	50	250	Used PNOS default.
1194	Epoxy resin; (Epichlorohydrin-bisphenol A resin)	25036-25-3	7.5	25	150	500	Rat oral LD50 estimated from HHR = 2.
1195	Epoxybutane, 1,2-; (1,2-Butylene oxide)	106-88-7	6	200	600	600	WEEL-TWA, rat TClo, rat 240 min LC50.
1196	Epoxyethyl-7-oxabicyclo(4.1.0)heptane, 3-; (Vinyl cyclohexene dioxide)	106-87-6	0.6	2	12.5	500	TLV-TWA, rat skin TD lo, rat 240 min LC50.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1197	Erbium nitrate pentahydrate	10031-51-3	10	30	50	250	Used PNOS default.
1198	Erbium(III) nitrate	10168-80-6	0.2	0.6	5	25	Rat iv LD50.
1199	Erbium(III) nitrate hexahydrate	13476-05-6	1	3	20	100	Rat oral LD50.
1200	Erbium(III) oxide	12061-16-4	20	60	400	500	Rat oral LD50 minimum.
1201	Ergocalciferol; (Vitamin D2)	50-14-6	7.5	25	40	40	LOC, rat oral LD50.
1202	Ergotamine tartrate	379-79-3	2	6	10	60	LOC, rat iv LD50.
1203	Estane; (Polyurethane resin; Urethane rubber)	61789-63-7	10	30	50	250	Used PNOS default.
1204	Ethane	74-84-0	1,250	3,500	6,000	30,000	TLV-TWA
1205	Ethanedioic acid, dimethyl ester	553-90-2	4	12.5	75	400	Rat oral LD minimum.
1206	Ethanedithiol, 1,2-	540-63-6	1.25	4	30	150	Mouse oral LD50.
1207	Ethanediy)bisbenzene, 1,1'-(1,2-; (Bibenzyl)	103-29-7	15	50	400	500	Rat oral LD50.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1208	Ethanediybis(n-(carboxy-methyl)-glycine), N,N'-1,2-, dipotassium salt	2001-94-7	1.5	5	40	200	Mouse ip LD50.
1209	Ethanediybis(oxy))bisbenzene, 1,1'-(1,2-	104-66-5	10	30	50	250	Used PNOS default.
1210	Ethanethiol; (Ethyl mercaptan)	75-08-1	1.25	2.54	305	914	TLV-TWA, AEGL-1, AEGL-2, AEGL-3.
1211	Ethanol, titanium(4+) salt	3087-36-3	10	30	50	250	Used PNOS default.
1212	Ethanolamine	141-43-5	7.5	15	75	75	PEL-TWA, TLV-STEL, rat oral TD lo, IDLH.
1213	Ethenylsilanetriol triacetate	4130-08-9	10	30	50	250	Used PNOS default.
1214	Ethidium bromide; (2,7-Diamino-10-ethyl-9-phenylphenanthridinium bromide)	1239-45-8	0.15	0.5	4	20	Mouse sc LD50.
1215	Ethion	563-12-2	0.05	0.15	13	350	TLV-TWA, LOC, rat 240 min LC50.
1216	Ethoxyethanol, 2-	110-80-5	15	50	750	1,500	TLV-TWA, rat TClo, IDLH.
1217	Ethoxyethoxy)ethanol, 2-(2-; (Carbitol cellosolve; Diethylene glycol monoethyl ether)	111-90-0	125	150	1,000	2,000	WEEL-TWA, human TD lo, rat oral LD50
1218	Ethoxyethyl methacrylate, 2-	2370-63-0	4	12.5	75	400	Estimated rat oral LD50.

AEGLs = bold 12pt font / ERPGs (but not AEGLs) = bold 10pt font

The "Source of PACs" column will be enhanced in the near future to improve the clarity and completeness of its information.

Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1219	Ethoxyethylacetate, 2-	111-15-9	25	400	2,500	2,500	TLV-TWA, rat TClo, IDLH.
1220	Ethoxyimino)butyl)-5-(2-ethylthiopropyl)-3-hydroxycyclohex-2-en-1-one, 2-(1-(; (Checkmate)	74051-80-2	12.5	40	250	500	Rat oral LD50.
1221	Ethoxylated alcohols, C16-18; (Nonionic surfactant)	68439-49-6	5	15	100	500	Rat oral LD50.
1222	Ethoxylated alcohols, C7-C21	68991-48-0	10	10	10	10	Used PNOS default.
1223	Ethoxylated nonylphenol; (Nonyl phenyl polyethylene glycol ether)	9016-45-9	5	15	100	500	Rat oral LD50.
1224	Ethyhexyloxy)ethanol, 2-(2-	1559-35-9	100	350	500	500	Rat oral TD lo, rat oral LD50
1225	Ethyl (or dimethyl) pyrrolidine	z-0020	5	15	100	500	SAR
1226	Ethyl acetate	141-78-6	1,500	1,500	1,500	7,500	PEL-TWA, human TClo, IDLH.
1227	Ethyl acetoacetate	141-97-9	15	50	350	500	Rat oral LD50
1228	Ethyl acrylate	140-88-5	20	34	147	982	TLV-TWA, AEGL-1, AEGL-2, AEGL-3.
1229	Ethyl Alcohol D; (Ethanol D)	925-93-9	2,000	6,000	6,000	6,000	Used ethanol (64-17-5) PEL-TWA, IDLH.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1230	Ethyl alcohol; (ethanol)	64-17-5	1,500	5,000	6,000	6,000	PEL-TWA, woman oral TD lo, IDLH.
1231	Ethyl amyl ketone; (3-Octanone)	106-68-3	125	125	125	500	PEL-TWA, IDLH.
1232	Ethyl benzene	100-41-4	400	500	500	3,500	PEL-TWA, TLV-STEL, human TClo, IDLH.
1233	Ethyl benzoate	93-89-0	7.5	25	150	500	Rat oral LD50
1234	Ethyl bromoacetate	105-36-2	0.006	0.02	0.125	0.6	Mouse skin TD lo.
1235	Ethyl butyl ketone; (3-Heptanone)	106-35-4	200	350	750	4,000	PEL-TWA, TLV-STEL, IDLH.
1236	Ethyl cellulose	9004-57-3	20	60	400	500	Rat oral LD50 minimum.
1237	Ethyl chloride	75-00-3	250	5,000	10,000	10,000	PEL-TWA, rat TClo, IDLH.
1238	Ethyl chloroacetate	105-39-5	0.75	2	15	75	Rat oral LD50.
1239	Ethyl chloroformate	541-41-3	4	4	22.2	44.4	UK OEL-TWA, OEL-TWA, ERPG-2, ERPG-3.
1240	Ethyl dimethylamido-cyanophosphate; (Tabun; GA)	77-81-6	0.0008	0.0028	0.0351	0.258	AEGL-1/3, AEGL-1, AEGL-2, AEGL-3

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1241	Ethyl ether	60-29-7	1,250	1,500	1,500	6,000	PEL-TWA, TLV-STEL, human TClo, IDLH.
1242	Ethyl formate	109-94-4	300	750	1,500	4,000	PEL-TWA, IDLH concentration limits.
1243	Ethyl hexanoic acid, 2-; (Butyl ethyl acetic acid)	149-57-5	6	15	125	500	Pregnant rat TD lo, rat oral LD50.
1244	Ethyl lactate; (Ethyl (s)-(-)-lactate)	687-47-8	15	40	300	500	Mouse oral LD50.
1245	Ethyl mercury chloride; (Chloroethyl mercury)	107-27-7	0.0132	0.0396	0.0529	2.64	PEL-TWA, TLV-STEL, PEL-C, IDLH.
1246	Ethyl methacrylate, (2-Methyl-2-propenoic acid, ethyl ester)	97-63-2	200	600	4,000	4,000	Pregnant rat TClo, rat 240 min LC50.
1247	Ethyl nitrite	109-95-5	2	6	40	200	Rat 240 min LC50.
1248	Ethyl O-2-diisopropylaminoethylmethylphosphonite, QL O-	57856-11-8	10	30	50	250	Used PNOS default.
1249	Ethyl propionate	105-37-3	35	100	750	4,000	Rat oral LD50.
1250	Ethyl s,s-dipropylphosphorodithioate, O-; (Mocap PC-84; Ethoprophos)	13194-48-4	0.25	0.75	5	15	Chicken oral TD lo, rat oral LD50.
1251	Ethyl silicate polymer; (Silicic acid, ethyl ester)	11099-06-2	10	30	50	250	PNOS TLV-TWA default used.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1252	Ethyl-1,3-hexanediol, 2-; (Ethyl hexylene glycol)	94-96-2	75	250	1,500	4,000	Rat oral TD lo, rat 480 min LC lo minimum.
1253	Ethyl-1-hexanol, 2-	104-76-7	0.53	0.53	639	1,209	ERPG-3, ERPG-1, ERPG-2, ERPG-3.
1254	Ethyl-2-methylheptane, 3-	14676-29-0	75	250	2,000	10,000	Estimated rat LD50
1255	Ethyl-2-methyloctane, 6-	z-0021	2	6	40	200	Undecane rat oral LD50.
1256	Ethyl-2-oxazoline, 2-	10431-98-9	0.4	1.25	7.5	40	Rat LC50 based on estimated HHR = 3.
1257	Ethyl-4-hydroxybenzoate; (p-Hydroxybenzoic acid ethyl ester; Ethyl acetimidate hydrochloride)	120-47-8	250	500	500	500	Rat oral TD lo, mouse oral LD50.
1258	Ethyl-5-methylheptane, 3-	52896-90-9	0.4	1	7.5	25,000	Mouse skin TD lo, mouse 120 min LC50.
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	Rat oral TD lo.
1260	Ethylamine; (Monoethylamine; Ethylamine anhydrous)	75-04-7	15	25	200	1,000	PEL-TWA, TLV-STEL, IDLH.
1261	Ethylbenzaldehyde, 2-	22927-13-5	50	150	1,000	6,000	Estimated rat LC50
1262	Ethylbis(2-chloroethyl)amine; (Bis(2-chloroethyl)ethylamine)	538-07-8	1.5	4	7.5	30	LOC, mouse 10 min LC50.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1263	Ethylene	74-85-1	200	600	10,000	10,000	TLV-TWA, mouse TClo, mouse 5 min LC lo.
1264	Ethylene chlorohydrin	107-07-3	3	3	20	20	MAK-TWA, LOC, IDLH.
1265	Ethylene dibromide	106-93-4	150	200	200	750	PEL-TWA. PEL-C, IDLH.
1266	Ethylene dichloride; (1,2-Dichloroethane)	107-06-2	202	202	810	1,210	PEL-TWA, ERPGs-1, ERPG-2, ERPG 3.
1267	Ethylene fluorohydrin; (2-Fluoroethanol)	371-62-0	0.0125	0.035	0.06	3.5	LOC, rat 10 min LC50.
1268	Ethylene glycol	107-21-1	25	100	100	150	MAK-TWA, EEGL-60 min, EEGL-30 min
1269	Ethylene glycol diacetate	111-55-7	25	75	500	500	Rat TClo, rat oral LD50.
1270	Ethylene glycol dimethacrylate	97-90-5	12.5	40	300	500	Rat oral LD50.
1271	Ethylene Glycol monomethyl ether acetate; (EGMEA; 2-Methoxyethyl acetate)	110-49-6	0.5	1.5	25	1,000	TLV-TWA, human TClo, IDLH.
1272	Ethylene glycol monomethyl ether; (2-Methoxyethanol; EGME; Methyl Cellosolve(R))	109-86-4	0.3	1	7.5	600	TLV-TWA, human TClo, IDLH.
1273	Ethylene glycol monopropyl ether; (Propyl cellosolve, Ektasolve EP)	2807-30-9	15	50	350	4,000	Rat TClo, rat 240 min LC50.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1274	Ethylene glycol mono-sec-butyl ether	7795-91-7	3	10	60	350	Rat oral LD50.
1275	Ethylene oxide; (Oxirane)	75-21-8	1.5	7.5	81	360	PEL-TWA, PEL-STEL, AEGL-2, AEGL-3.
1276	Ethylene/vinyl acetate copolmer	24937-78-8	10	30	50	250	Used PNOS default.
1277	Ethylenediamine dihydrochloride	333-18-6	0.1	0.3	2	60	Rat oral TD lo, rat im LD50.
1278	Ethylenediamine, 1,2-	107-15-3	23.8	23.8	23.8	49.1	AEGL-2, AEGL-2, AEGL-2, AEGL-3
1279	Ethylenediaminetetraacetic acid, disodium salt	139-33-3	60	150	500	500	Pregnant rat oral TD lo, rat oral LD50.
1280	Ethylenediaminetetraacetic acid, disodium salt, dihydrate	6381-92-6	10	30	50	250	Used PNOS default.
1281	Ethylenediaminetetraacetic acid, ferric ammonium salt	21265-50-9	2.5	7.5	50	250	Mouse intraperitoneal LD50.
1282	Ethylenediaminetetraacetic acid, tetrasodium salt, dihydrate	10378-23-1	7.5	25	150	500	Estimated rat oral LD50 from HHR.
1283	Ethylenediaminetetraacetic acid, tetrasodium salt; (Tetrasodium EDTA)	64-02-8	40	125	500	500	Rat oral LD50.
1284	Ethylenediaminetetraacetic acid; (EDTA)	60-00-4	40	125	150	150	Pregnant rat oral TD lo, rat ip LD50.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1285	Ethylenedinitrilo)tetra-2-propanol, 1,1',1'',1'''-(	102-60-3	15	50	350	500	Mammalian LD50.
1286	Ethyleneimine	151-56-4	0.75	1	8.1	17.4	TLV-TWA, AEGL-2/7. AEGL-2, AEGL-3.
1287	Ethylenethiourea; (2-Imidazolidinethione)	96-45-7	0.75	2.5	15	500	Pregnant rat TClo, rat oral LD50.
1288	Ethylheptane, 4-	2216-32-2	15	50	350	1,500	Estimated rat oral LD 50 based on HHR.
1289	Ethylhexyl acrolate, 2-; (Acrylic acid, 2-ethylhexyl ester)	103-11-7	4	12.5	75	75	Rat TClo, Mouse LC lo.
1290	Ethylhexyl bromide, 2-	18908-66-2	10	30	50	250	Used PNOS default.
1291	Ethylidene chloride, 1,1-; (1,1-Dichloroethane)	75-34-3	400	1,250	12,500	12,500	PEL-TWA, rat TClo, IDLH.
1292	Ethylidene norbornene	16219-75-3	0.982	0.982	491	2,460	ERPG-1, ERPG-1, ERPG-2, ERPG-3.
1293	Ethylmagnesium chloride; (Chloroethyl magnesium)	2386-64-3	10	30	50	250	PNOS default used.
1294	Ethyl-S-dimethylaminoethyl methylphosphonothiolate; (VX nerve agent)	50782-69-9	0.0006	0.0015	0.0029	0.01	AEGL-1/3, AEGL-1, AEGL-2, AEGL-3
1295	Ethylthiocyanate	542-90-5	20	60	100	100	LOC, mouse ip LD50.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1296	Ethyltoluene, o-	611-14-3	500	500	500	500	Rat TClo, mouse 240 min LC50.
1297	Ethyltoluene, p-	622-96-8	500	500	500	500	Rat TClo, mouse 240 min LC50.
1298	Europium	7440-53-1	10	30	50	250	Used PNOS default.
1299	Europium (II) Iodide	22015-35-6	10	30	50	250	PNOS default used.
1300	Europium nitrate; (Europium trinitrate)	10138-01-9	15	50	350	500	Rat oral LD50.
1301	Europium oxide	1308-96-9	20	60	400	500	
1302	Farnesol	4602-84-0	25	75	500	500	Rat oral LD50
1303	Fenamiphos	22224-92-6	0.05	0.15	0.9	40	TLV-TWA, LOC, rat 240 min LC50.
1304	Fensulfothion	115-90-2	0.01	0.03	2	12.5	
1305	Fenthion	55-38-9	0.05	0.15	40	40	TLV-TWA, women oral TD lo, human LDlo.
1306	Ferric ammonium citrate	1185-57-5	1	3	500	500	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1307	Ferric ammonium sulfate dodecahydrate	7783-83-7	8.64	25.9	43.2	200	Fe soluble salts TLV-TWA.
1308	Ferric ammonium sulfate; Sulfuric acid, ammonium iron(3e+) salt (2:1:1)	10138-04-2	4.82	14.5	25	125	
1309	Ferric chloride	7705-08-0	2.9	3.5	25	125	Fe concentration limits, rat repro TD lo, oral LD50
1310	Ferric chloride hexahydrate	10025-77-1	4.84	75	100	100	Fe concentration limits, rat 14W TDlo mouse ip LD50
1311	Ferric fluoride	7783-50-8	14.8	40	300	500	
1312	Ferric hydroxide	1309-33-7	3.5	10	75	400	
1313	Ferric nitrate	10421-48-4	4.33	13	21.7	100	
1314	Ferric nitrate nonahydrate; (Iron(III) nitrate nonahydrate (1:3:9))	7782-61-8	7.24	21.72	250	500	
1315	Ferric phosphate	10045-86-0	2.75	8.26	13.8	60	
1316	Ferric sulfate; (Iron(III) sulfate)	10028-22-5	3.58	10.7	17.9	75	
1317	Ferrous ammonium sulfate	10045-89-3	5.09	15.3	25.4	125	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1318	Ferrous carbonate	563-71-3	10	30	50	250	PNOS default.
1319	Ferrous chloride	7758-94-3	2.27	6.81	11.3	200	
1320	Ferrous disulfide; (Iron disulfide)	12068-85-8	2.15	6.44	10.7	50	Iron concentration limits.
1321	Ferrous hydroxide	18624-44-7	3.5	10	75	400	
1322	Ferrous sulfamate	14017-39-1	1	3	5	25	
1323	Ferrous sulfate	7720-78-7	2.72	8.16	13.6	350	Fe TLV-TWA, child oral LDlo.
1324	Ferrous sulfate heptahydrate	7782-63-0	4.98	14.9	25	500	
1325	Fibrous glass; (Fiber glass; Glass frit; Synthetic vitreous fibers)	65997-17-3	5	15	60	500	
1326	Fluenetil	4301-50-2	1.25	3.5	6	6	
1327	Fluoboric acid; (Tetrafluoroboric acid)	16872-11-0	2.89	2.89	7.5	40	
1328	Fluoranthene	206-44-0	0.004	0.01	0.075	500	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1329	Fluorene, 9H-	86-73-7	7.5	25	150	500	
1330	Fluorides (as F)	16984-48-8	2.5	2.5	2.5	250	
1331	Fluorine	7782-41-4	0.15	2.64	7.75	20.2	PEL-TWA, AEGL-1, AEGL-2, AEGL-3.
1332	Fluoro-2-nitrobenzene, 1-; (o-Fluoronitrobenzene)	1493-27-2	7.5	25	150	500	Rat oral LD50 based on HHR = 2.
1333	Fluoro-4-nitrophenol, 2-	403-19-0	0.75	2.5	15	75	SAR
1334	Fluoro-6-nitrophenol, 2-	1526-17-6	0.75	2.5	15	75	SAR
1335	Fluoroacetamide	640-19-7	1	3.5	5.8	5.8	
1336	Fluoroacetic acid, sodium salt; (Sodium fluoroacetate)	62-74-8	0.05	0.15	0.5	2.5	
1337	Fluoroacetic acid; (Fluoroethanoic acid)	144-49-0	0.075	0.25	0.47	2	
1338	Fluoroacetyl chloride	359-06-8	2	6	10	10	
1339	Fluoroaniline, p-	371-40-4	1.5	5	35	150	Rat oral LD50.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1340	Fluorobenzene	462-06-6	125	350	500	500	
1341	Fluorotrimethylsilane	420-56-4	10	30	200	1,000	
1342	Fluorouracil	51-21-8	0.75	2.5	19	100	
1343	Fonofos	944-22-9	0.01	0.03	1.3	200	TLV-TWA, LOC, rat 60 min LC50.
1344	Food Red 15; (FD&C Red No. 19)	81-88-9	0.4	1.25	7.5	50	
1345	Forane	26675-46-7	15,000	35,000	35,000	35,000	TClo and LC50 r inhalation data
1346	Formaldehyde	50-00-0	0.35	1.1	17.2	68.7	PEL-TWA, AEGL-1, AEGL-2, AEGL-3.
1347	Formaldehyde cyanohydrin; (Hydroxyacetonitrile; Glycolonitrile)	107-16-4	0.3	0.75	6	10	
1348	Formamide	75-12-7	15	35	250	2,500	
1349	Formetamate hydrochloride	23422-53-9	3.5	10	18	18	
1350	Formic acid	64-18-6	7.5	15	15	50	PEL-TWA, TLV-STEL, human TClo, IDLH.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1351	Formic acid, 2-propenyl ester; (Allyl formate)	1838-59-1	4	12.5	75	400	
1352	Formic acid, butyl ester; (n-Butyl formate)	592-84-7	200	600	4,000	4,000	
1353	Formothion	2540-82-1	0.05	0.15	0.27	10	
1354	Formparanate	17702-57-7	1.5	4	7.2	7.2	
1355	Formylpiperidine, 1-	2591-86-8	15	50	400	400	Rat oral TD lo preg, rat oral LD50.
1356	Fosthietan	21548-32-3	0.75	2.5	4.7	4.7	
1357	Fuberidazole	3878-19-1	0.6	2	3.3	125	
1358	Fuel oil, residual	68476-33-5	35	100	500	500	
1359	Fuller's earth; (Kaolin, 1332-58-7)	8031-18-3	5	6	500	500	
1360	Fulminic acid; (Carbyloxime)	506-85-4	1	3	20	100	Human LC50 based on HHR = 3
1361	Fumaric acid	110-17-8	40	100	500	500	

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The "Source of PACs" column will be enhanced in the near future to improve the clarity and completeness of its information.

Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1362	Furan	110-00-9	3.5	10	18.9	52.9	AEGL-2/5, AEGL-2*3/5, AEGL-2, AEGL-3.
1363	Furancarboxaldehyde, 2-; (Furfural)	98-01-1	8	8	39	393	ERPG-1/3, ERPG-1, ERPG-2, ERPG-3.
1364	Furancarboxylic acid, ethyl ester, 2-; (Ethyl furoate)	614-99-3	1.5	4	30	150	
1365	Furfuryl alcohol	98-00-0	60	60	60	300	
1366	Fusariotoxin T2; (T2-Trichothecene)	21259-20-1	0.0015	0.004	0.03	0.4	
1367	Gadolinium	7440-54-2	500	500	500	500	
1368	Gadolinium chloride hexahydrate, (anhydrous)	13450-84-5	40	75	75	75	Rat oral TD lo, mouse iv LD50.
1369	Gadolinium hydroxide	16469-18-4	0.75	0.75	2.5	75	SAR
1370	Gadolinium nitrate, solid	10168-81-7	10	30	50	500	
1371	Gadolinium nitrite	z-0022	0.04	0.125	0.75	75	SAR
1372	Gadolinium(III) oxide	12064-62-9	2	6	50	500	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1373	Gallic acid monohydrate	5995-86-8	15	50	350	500	Rat oral LD50.
1374	Gallium	7440-55-3	10	30	50	250	
1375	Gallium oxide	12024-21-4	10	30	50	500	
1376	Gallium trichloride	13450-90-3	6	20	32	100	
1377	Gallium trifluoride	7783-51-9	5.56	16.7	27.8	125	
1378	Gasoline	8006-61-9	750	1,500	1,500	4,000	TLV-TWA, -STEL, human TClo, rat LC50
1379	Gelatin; (Pharmagel A)	9000-70-8	2.5	7.5	60	300	
1380	Germane; (Germanium tetrahydride)	7782-65-2	0.6	1.5	3	500	
1381	Germanium	7440-56-4	0.0125	0.035	0.25	500	Human oral TD lo, rat oral LD50.
1382	Germanium oxide	1310-53-8	0.75	2	15	500	
1383	Germanium tetrafluoride	7783-58-6	4.89	12.5	100	489	PEL-TWA and IDLH concentration limits for F

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1384	Germanous acid	z-0023	2	6	40	200	
1385	Giemsa's stain; (... blood stain)	51811-82-6	10	30	50	250	
1386	Gluconic acid, D-	526-95-4	10	30	50	250	PNOS default used.
1387	Glucose monohydrate, D(+)-; (Dextrose monohydrate glucose)	14431-43-7	10	30	50	250	Used PNOS default.
1388	Glucose, d-; (Dextrose, anhydrous)	50-99-7	0.4	1.25	7.5	500	Women iv TD lo, rat oral LD50.
1389	Glucose; (alpha-D-glucose; Dextrose)	492-62-6	0.4	1.25	7.5	500	Women iv TD lo, rat oral LD50.
1390	Glutamic acid, L-; ((S)-(+)-Glutamic acid)	56-86-0	2	6	40	200	
1391	Gluteraldehyde	111-30-8	0.2	0.82	4.1	20.5	MAK-TWA, ERPG-1, ERPG-2, ERPG-3.
1392	Glycerine (mist); (Glycerol, glycerin)	56-81-5	15	100	500	500	
1393	Glycerine carbonate; (4-Hydroxymethyl]-1,3-dioxolan-2-one)	931-40-8	10	30	50	250	PNOS default used.
1394	Glyceryl monostearate; (Octadecanoic acid, monoester with 1,2,3-propanetriol)	31566-31-1	10	30	50	75	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1395	Glycidaldehyde	765-34-4	0.06	0.2	1.5	75	
1396	Glycidol; (Oxiranemethanol)	556-52-5	6	12.5	75	400	TLV-TWA, rat TClo, rat LC50.
1397	Glycidoxypropyltrimethoxysilane; (3-(2,3-Epoxypropoxy) propyltrimethyl-oxysilane)	2530-83-8	150	400	500	500	Rat TClo, rat LC lo.
1398	Glycidyl acrylate; (2,3-Epoxypropyl acrylate)	106-90-1	0.6	2	12.5	60	Rat 240 min LC lo.
1399	Glycine; (Aminoacetic acid)	56-40-6	25	75	500	500	
1400	Glycol carbonate; (Ethylene carbonate)	96-49-1	40	125	500	500	
1401	Glycolic acid	79-14-1	0.75	0.75	0.75	0.75	
1402	Glycols, polyethylene, dimethyl ether	24991-55-7	75	200	500	500	Rat oral TD lo, rat oral LDlo.
1403	Glycols, polyethylene, mono(p-nonylphenyl) ether; (Nonoxynol-9)	26027-38-3	0.025	0.075	0.6	60	
1404	Glycoluril; (Acetyleneurea)	496-46-8	10	30	50	250	
1405	Glyoxal	107-22-2	0.1	35	75	75	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1406	Goethite; (Iron hydroxide oxide)	1310-14-1	5	7.5	12.5	250	SAR
1407	Gold	7440-57-5	7.5	25	100	100	
1408	Graphite; (Mineral carbon)	7782-42-5	2	6	10	500	
1409	Grease; (Animal grease, inedible)	68153-81-1	10	30	50	250	
1410	Guanidine, N-methyl-N'-nitro-N-nitroso-	70-25-7	0.125	0.35	2.5	40	
1411	Guanidinehydrochloride	50-01-1	2	6	40	200	Rat oral LD50.
1412	Hafnium	7440-58-6	0.5	1.5	2.5	50	
1413	Hafnium oxide	12055-23-1	0.59	1.77	3	59	
1414	Halon 1211; (Bromochlorodifluoromethane)	353-59-3	75	250	1,500	35,000	
1415	Hansa yellow	13515-40-7	10	30	50	250	
1416	Helium	7440-59-7	10,000	10,000	35,000	60,000	Simple asphyxiant

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1417	Hematoxylin	517-28-2	10	30	50	50	
1418	Heptachlor	76-44-8	0.5	0.5	0.5	35	
1419	Heptachlor epoxide; (Epoxyheptachlor)	1024-57-3	0.5	0.5	0.6	6	
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	
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	
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	
1423	Heptadecane	629-78-7	150	500	3,500	15,000	
1424	Heptafluorobutyric acid	375-22-4	0.6	2	12.5	60	Mouse ip LD50.
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	
1426	Heptane	142-82-5	1,500	1,500	1,500	3,000	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1427	Heptanoic acid	111-14-8	30	75	600	3,000	Rat oral LD50.
1428	Heptanol, 1-; (Heptyl alcohol)	111-70-6	3.5	10	500	500	
1429	Heptene, 1-	592-76-7	7,500	20,000	150,000	750,000	Mouse TClo
1430	Hexacarbonylchromium; (Chromium hexacarbonyl)	13007-92-6	0.05	0.1	1.25	1.25	
1431	Hexachloroacetone	116-16-5	0.4	1.25	7.5	200	Rat oral TD lo, rat 180 min LC50.
1432	Hexachlorobenzene	118-74-1	0.002	0.006	2	200	
1433	Hexachlorobutadiene	87-68-3	0.2	10.7	32.1	106.9	TLV-TWA, ERPG-1, ERPG-2, ERPG-3.
1434	Hexachlorocyclohexane, alpha-; (Benzene hexachloride-alpha-isomer)	319-84-6	0.5	1.5	50	500	MAK-TWA, rat TD lo, human LDlo.
1435	Hexachlorocyclohexane, beta-1,2,3,4,5,6-; (Benzene hexachloride, trans-alpha-)	319-85-7	0.5	1.5	15	500	
1436	Hexachlorocyclopentadiene	77-47-4	0.1	0.2	0.2	0.2	
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	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1438	Hexachlorodibenzofuran, 1,2,3,4,7,8-	70648-26-9	0.0025	0.0075	0.06	0.3	
1439	Hexachlorodibenzofuran, 1,2,3,6,7,8-	57117-44-9	0.0008	0.0025	0.015	0.075	
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	
1441	Hexachlorodibenzofuran, 2,3,4,6,7,8-	60851-34-5	0.0005	0.0015	0.01	0.05	
1442	Hexachlorodibenzo-p-dioxin, 1,2,3,6,7,8-	57653-85-7	0.005	0.015	0.1	0.5	
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	
1444	Hexachloroethane	67-72-1	10	30	50	3,000	
1445	Hexachloronaphthalene	1335-87-1	0.2	0.2	0.2	2	
1446	Hexachlorophene	70-30-4	10	10	20	200	Infant oral TD lo, child oral LDlo.
1447	Hexachloropropene	1888-71-7	1.5	4	30	150	
1448	Hexadecanamine, 1-	143-27-1	0.125	0.35	2.5	75	Mouse oral TD lo preg, mouse ip LD50.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1449	Hexadecane	544-76-3	2.5	7.5	60	500	Guinea pig skin TD lo, mouse intravenous LDlo.
1450	Hexadecanoic acid; (Palmitic acid)	57-10-3	25	50	50	50	
1451	Hexadecanol, 1-	36653-82-4	2.5	7.5	60	300	
1452	Hexadecene, 1-	629-73-2	4	12.5	75	400	Rat 60 min LC lo minimum.
1453	Hexadecylpyridinium chloride, 1-; (Cepacol chloride)	123-03-5	0.075	0.25	2	10	Rat 240 min LC50.
1454	Hexadecyltrimethylammonium chloride	112-02-7	2.5	7.5	50	250	Mouse oral LDlo.
1455	Hexafluoro-2-propanol, 1,1,1,3,3,3-	920-66-1	50	150	1,000	6,000	Rat 240 min LC50
1456	Hexafluoroacetone	684-16-2	0.6	1	7	340	TLV-TWA, ERPG-2/7, ERPG-2, ERPG-3.
1457	Hexafluorobenzene	392-56-3	1,250	3,500	12,500	12,500	Dog TClo, rat 30 min LC50.
1458	Hexafluorobutyne-2; (1,1,1,4,4,4-Hexafluoro-2-butyne)	692-50-2	2	6	40	200	Rat 240 min LC50.
1459	Hexafluoroethane; (Freon 116; Perfluoroethane)	76-16-4	250,000	250,000	250,000	250,000	Rat TClo

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1460	Hexafluoropropylene; (Hexafluoropropene)	116-15-4	0.6	61	305	3,050	TLV-TWA, ERPG-1, ERPG-2, ERPG-3.
1461	Hexafluoropropylene-vinylidene fluoride; (Viton)	9011-17-0	10	30	50	250	PNOS default.
1462	Hexamethylcyclotrisiloxane	541-05-9	10	30	200	500	Estimated rat oral LD50.
1463	Hexamethyldisilazane	999-97-3	12.5	40	250	350	
1464	Hexamethyldisiloxane	107-46-0	250	750	2,000	2,000	
1465	Hexamethylene diisocyanate polymer	28182-81-2	7.5	25	200	500	Rat 60-min LC50
1466	Hexamethylene diisocyanate; (1,6-Diisocyanatohexane)	822-06-0	0.035	0.1	1.25	20	
1467	Hexamethyleneimine	111-49-9	12.5	40	300	500	Mouse 120 min LC50.
1468	Hexamethylenetetraamine hydrochloride	58713-21-6	10	30	50	250	
1469	Hexamethylenetetraamine; (Methenamine)	100-97-0	10	30	500	500	
1470	Hexamethylphosphoramide	680-31-9	0.3	0.75	6	1,000	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1471	Hexamethyltetracosane, 2,6,10,15,19,23-; (Squalane)	111-01-3	75	250	1,500	7,500	Estimated rat 240 min LC50 based on HR.
1472	Hexanal	66-25-1	50	150	750	750	
1473	Hexane	110-54-3	150	1,500	11,600	30,300	TLV-TWA, AEGL-2/7, AEGL-2, AEGL-3.
1474	Hexanediol diacrylate, 1,6-	13048-33-4	1	3.5	25	500	WEEL-TWA, rabbit dermal TD lo, rat oral LD50.
1475	Hexanediol, 1,6-; (Hexamethylene glycol)	629-11-8	50	150	500	500	Rat ip TD lo, rat oral LD50.
1476	Hexanehexol, 1,2,3,4,5,6-; (Mannitol)	69-65-8	500	500	500	500	
1477	Hexanenitrile	628-73-9	2	6	40	200	
1478	Hexanethiol, 1-; (N-HEXYLMERCAPTAN)	111-31-9	0.125	0.35	2.5	500	REL-C, rat 240 min LC50.
1479	Hexanitrostilbene	20062-22-0	0.25	0.75	6	30	Rat oral TD lo for 4-Nitrostilbene.
1480	Hexanoic acid	142-62-1	5	15	100	500	
1481	Hexanol, 2-; (2-Hydroxyhexane)	626-93-7	5	15	100	500	Human TClo.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1482	Hexanol, n-; (n-Hexyl alcohol)	111-27-3	3	7.5	60	300	
1483	Hexanone, 2-; (Methyl n-butyl ketone)	591-78-6	20	40	6,000	6,000	
1484	Hexanone, 3-; (Ethyl propyl ketone)	589-38-8	15	50	350	1,500	
1485	Hexanoyl chloride	142-61-0	1.5	5	35	150	Rat oral LD50 from estimated HHR = 3.
1486	Hexaphenylcyclotrisiloxane	512-63-0	7.5	25	150	500	Estimated rat oral LD50 based on HHR.
1487	Hexene, 1-	592-41-6	100	100	100	100	
1488	Hexylene glycol	107-41-5	50	125	125	1,500	
1489	Holmium	7440-60-0	7.5	25	150	500	Rat oral LD50 based on HHR = 2.
1490	Holmium trioxide	12055-62-8	10	30	50	250	
1491	Humic acid, sodium salt	68131-04-4	2	6	40	200	Rat ip TD lo preg., rat ip LD50.
1492	Hydrazine	302-01-2	0.131	0.131	17	45.9	AEGL-1, AEGL-1, AEGL-2, AEGL-3.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1493	Hydrazine hydrate, aqueous solutions	10217-52-4	0.03	0.0625	0.0625	0.0625	
1494	Hydrazine hydrate; (Hydrazine monohydrate)	7803-57-8	0.003	0.0075	0.0625	50	
1495	Hydrazine hydrochloride; (Hydrazine monochloride)	2644-70-4	0.0075	0.025	0.04	50	
1496	Hydrazine nitrate; (Hydrazinium nitrate)	13464-97-6	1	3	5	25	
1497	Hydrazine sulfate	10034-93-2	0.6	2	15	250	
1498	Hydrazine, dihydrochloride	5341-61-7	25	75	500	500	Rat oral TD lo.
1499	Hydriodic acid; (Hydrogen iodide)	10034-85-2	1.5	5.23	115	627	AEGL-1/3, AEGL-1, AEGL-2, AEGL-3.
1500	Hydrobromic acid; (Hydrogen bromide)	10035-10-6	3.31	3.31	72.8	397	AEGL-1, AEGL-1, AEGL-2, AEGL-3.
1501	Hydrogen	1333-74-0	5,000	5,000	15,000	30,000	Simple asphyxiant
1502	Hydrogen chloride; (Hydrochloric acid)	7647-01-0	0.75	2.68	32.8	149	CEGL, AEGL-1, AEGL-2, AEGL-3
1503	Hydrogen cyanide; (Hydrocyanic acid)	74-90-8	2	2.21	7.84	16.6	MAK-TWA, AEGL-1, AEGL-2, AEGL-3

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1504	Hydrogen fluoride; (Hydrofluoric acid)	7664-39-3	0.818	0.818	19.6	36	AEGL-1, AEGL-1, AEGL-2, AEGL-3
1505	Hydrogen peroxide	7722-84-1	1.25	14	71	142	PEL-TWA, ERPG-1, ERPG-2, ERPG-3.
1506	Hydrogen peroxide - 30%	7722-84-1a	12.5	40	200	400	Concentration-adjusted ERPGs
1507	Hydrogen potassium phthalate; (Phthalic acid, monopotassium salt; Potassium acid phthalate; Potassium biphthalate)	877-24-7	12.5	40	250	500	Rat oral LD50 minimum.
1508	Hydrogen selenide	7783-07-5	0.15	0.35	2.42	7.28	PEL-TWA, AEGL-2/7, AEGL-2, AEGL-3.
1509	Hydrogen sulfide	7783-06-4	0.71	0.71	37.6	69.6	AEGL-1, AEGL-1, AEGL-2, AEGL-3.
1510	Hydrogenated terphenyl	61788-32-7	0.5	1.5	2.5	500	TLV-TWA, RAT oral LD50.
1511	Hydroquinone	123-31-9	2	3	20	50	
1512	Hydrotreated (mild & severe) heavy paraffinic distillates	64742-54-7	60	150	500	500	
1513	Hydrotreated Middle Distillate (Petroleum base oil)	64742-46-7	3	7.5	60	300	
1514	Hydroxy-2-methylpropanoic acid, 2-; (2-Methylactic acid)	594-61-6	10	30	50	250	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1515	Hydroxy-4'-hydroxyethoxy-2-methylpropiophenone, 2-	106797-53-9	15	50	350	500	Rat oral LD50
1516	Hydroxy-4-methyl-2-pentanone, 4-; (Diacetone alcohol)	123-42-2	200	200	200	7,500	
1517	Hydroxyapatite; (Calcium hydroxyapatite)	1306-06-5	12.5	35	60	500	SAR
1518	Hydroxybenzenesulfonic acid, 4-; (4-Hydroxyphenylsulfonic acid)	98-67-9	25	75	500	500	Mouse oral LD50
1519	Hydroxybenzoic acid, 4-; (p-Salicylic acid)	99-96-7	20	60	400	500	Rat oral TD lo, mouse oral LD50.
1520	Hydroxybenzotriazole, 1-; (1-Hydroxybenzotriazole hydrate)	2592-95-2	40	125	500	500	Rat oral LDlo.
1521	Hydroxyethyl acrylate, 2-; (Acrylic acid-2-hydroxyethyl ester)	818-61-1	1.5	5	35	250	Rat TClo, rat 240 min LC lo.
1522	Hydroxyethyl methacrylate, 2-	868-77-9	0.1	0.3	2	500	Rat oral TD lo, rat oral LD50.
1523	Hydroxyethyl)-1-piperazineethanesulfonic acid, 4-(2-	7365-45-9	1.25	4	25	125	Quail LD50 maximum.
1524	Hydroxyethylenediaminetriacetic acid, n-	150-39-0	1.25	4	30	150	
1525	Hydroxyethylidene-1,1-diphosphonic acid, 1-; (Hydroxyethylidene bisphosphonic acid, 1-)	2809-21-4	10	30	50	500	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1526	Hydroxylamine	7803-49-8	0.25	0.75	5	25	
1527	Hydroxylamine chloride; (Hydroxylamine hydrochloride)	5470-11-1	10	35	60	60	
1528	Hydroxylamine nitrate	13465-08-2	7.62	15.2	26	150	PEL-TWA, TLV-STEL and IDLH as HNO ₃ , LOC.
1529	Hydroxylamine sulfate; (Oxammonium sulfate)	10039-54-0	4	10	75	400	
1530	Hydroxymethanesulfinic acid, monosodium salt; (Formaldehyde hydrosulfite)	149-44-0	15	50	350	500	Mouse oral LD50.
1531	Hydroxy-n-phenylbenzamide, N-; (Phenylbenzohydroxamic acid, N-)	304-88-1	10	30	50	250	PNOS default.
1532	Hydroxyphenyl benzothiazole	3411-95-8	35	100	500	500	Mouse ip LDlo minimum.
1533	Hydroxyphenylacetic acid, alpha-	90-64-2	15	50	350	500	Rat ip LD50.
1534	Hydroxypropyl cellulose	9004-64-2	40	125	500	500	Rat oral LD50.
1535	Hydroxyquinoline sulfate, 8-	134-31-6	5	15	100	500	Rat oral LD50.
1536	Hypophosphorous acid; (Hydrophosphorus acid-d3 solution, 50 wt.% in D2.O)	57583-56-9	2	6	50	750	Rat oral TD lo, rat oral LD50 for non-deuterated compound.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1537	Hypophosphorus acid; (Phosphinic acid)	6303-21-5	10	30	50	250	
1538	Igepal Ca-, 720	26636-32-8	3	7.5	60	300	Mouse intravenous LD50.
1539	Imidazole	288-32-4	4	12.5	75	100	
1540	Imidazole hydrochloride	1467-16-9	7.5	25	150	500	Rat oral LD50 based on HHR.
1541	Iminodiacetic acid	142-73-4	1	3	20	100	
1542	Iminodiacetic acid, disodium salt hydrate	17593-73-6	35	100	500	500	MSDS rat oral LD50.
1543	Indan	496-11-7	40	125	500	500	
1544	Indene	95-13-6	40	40	300	1,500	
1545	Indeno(1,2,3-cd)pyrene	193-39-5	0.15	0.5	3.5	15	
1546	Indigo carmine; (FD&C blue No 2)	860-22-0	20	60	75	75	
1547	Indium	7440-74-6	0.1	0.1	0.6	3.5	Indium concentration limits, mouse sc LDlo.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1548	Indium oxide (vapor)	1312-43-2b	0.107	0.321	0.535	2.5	Indium concentration limits.
1549	Indium sulfate	13464-82-9	0.225	0.676	1.13	4	In compound concentration limits, rat sc LD50.
1550	Indium trichloride	10025-82-8	0.193	0.578	1	1	Indium concentration limits, T-2 toxicity adjusted, rat ip LD50.
1551	Indium(III) oxide	1312-43-2a	0.121	0.363	100	500	Indium concentration limits, rat TClo, mouse oral LDlo.
1552	Indole-3-carboxaldehyde, 1H-; (3-Formylindole)	487-89-8	5	15	100	500	
1553	Iodic acid	7782-68-5	0.139	0.139	0.139	2.77	
1554	Iodide, Ammonium, tetraethyl-; (Tetraethylammoniumiodide)	68-05-3	0.15	0.4	3	15	Mouse ip LD50.
1555	Iodine	7553-56-2	1	1	5.2	52	MAK-TWA, ERPG-1, ERPG-2, ERPG-3.
1556	Iodine 125	17144-19-3	1	1	5	50	Iodine (7753-56-2) PACs.
1557	Iodobenzene	591-50-4	75	200	500	500	Rat TD lo, rat LC50.
1558	Iodoethane; (Ethyl iodide)	75-03-6	30	100	600	3,500	Rat 30 min LC50

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1559	Iodoheptafluoropropane, 1-; (Heptafluoropropyl iodide)	754-34-7	1,500	4,000	30,000	150,000	Mouse 120 min LC50
1560	Iodopentane, 1-	628-17-1	4	10	75	400	Rat ip LD50.
1561	Iotalamic acid	2276-90-6	0.06	0.15	1.25	500	Human TD lo, rat ip LD50.
1562	Iridium	7439-88-5	6	20	125	500	Rat oral LD50.
1563	Iron	7439-89-6	1.5	4	30	500	Rat oral LD50.
1564	Iron carbide	12011-67-5	5.36	16.1	26.8	125	Iron concentration limits.
1565	Iron hydroxide oxide	20344-49-4	15.9	47.7	79.6	400	Iron concentration limits.
1566	Iron oxide; (Ferric oxide)	1309-37-1	5	15	40	500	Concentration limits.
1567	Iron pentacarbonyl	13463-40-6	0.48	0.48	0.48	1.44	AEGL-2, AEGL-2, AEGL-2, AEGL-3.
1568	Iron(II) chloride tetrahydrate	13478-10-9	3.56	3.56	7.5	40	Mouuse ip LD50.
1569	Iron(II) perchlorate hexahydrate	13520-69-9	6.33	19	31.6	150	Used TLV-TWA for soluble iron salts

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1570	Iron(II,III) oxide; (Ferrosferric oxide; Iron(III) oxide)	1317-61-9	20.7	31.1	51.8	250	Iron oxide concentration limits.
1571	Iron(III) perchlorate	13537-24-1	6.34	19	31.7	150	Fe soluble salts TLV-TWA.
1572	Iron(III) sulfate heptahydrate	35139-28-7	4.98	14.9	25	500	Insol. Fe salts, concentration limits, mouse oral LD50.
1573	Isoamyl acetate; (Isopentyl acetate)	123-92-2	500	500	1,000	5,000	
1574	Isoamyl alcohol (primary); (3-Methyl-1-butanol)	123-51-3	350	400	400	1,500	
1575	Isoamyl alcohol (secondary); (3-Pentanol)	584-02-1	350	400	400	1,500	
1576	Isoamyl nitrite; (Isopentyl nitrite)	110-46-3	12.5	40	300	1,500	
1577	Isobenzan	297-78-9	0.5	1.5	2	2	
1578	Isobutanol-2-amine	124-68-5	0.03	0.075	0.6	500	
1579	Isobutyl acetate	110-19-0	600	600	1,250	6,000	
1580	Isobutyl alcohol	78-83-1	300	3,500	5,000	5,000	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1581	Isobutyl chloride; (1-Chloro-2-methylpropane)	513-36-0	1.5	4	30	150	Estimated rat 240 min LC50 based on HR.
1582	Isobutyl isobutyrate	97-85-8	150	500	500	500	
1583	Isobutylamine	78-81-9	15	15	20	100	
1584	Isobutyraldehyde	78-84-2	75	750	5,000	5,000	WEEL-TWA, pregnant rat TClo, mouse 120 min LC50.
1585	Isobutyric acid	79-31-2	1	3.5	25	125	
1586	Isobutyric anhydride; (2-Methylpropionic anhydride)	97-72-3	0.6	2	12.5	60	Rat LC50 based on HHR.
1587	Isobutyronitrile	78-82-0	20	28.3	50.9	192	REL-TWA, ERPG-1, AEGL-2 , AEGL-3 .
1588	Isocyanate-bearing waste (as CNs N.O.S.)	z-0024	5	5	5	25	
1589	Isocyanatoethyl methacrylate, 2-	30674-80-7	0.125	0.35	0.634	6.34	ERPG-2/5, ERPG-2*3/5, ERPG-2 , ERPG-3 .
1590	Isocyanic acid	75-13-8	0.06	0.2	1.25	6	Human LC50 based on estimated HHR = 3+
1591	Isocyanic acid-3,4-dichlorophenyl ester; (3,4-Dichlorophenyl isocyanate)	102-36-3	2.5	7.5	14	500	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1592	Isodrin	465-73-6	1.25	4	7	7	
1593	Isonate 181 MDI prepolymer	z-0113	7.5	25	100	225	Calculated from mixture ingredients
1594	Isooctane; (2,2,4-Trimethylpentane)	540-84-1	1,250	1,500	1,500	4,000	Octane TLV-TWA, REL-C, IDLH.
1595	Isopentane; (Ethyl dimethylmethane; 2-Methylbutane)	78-78-4	1,500	1,500	1,500	60,000	
1596	Isophorone	78-59-1	25	25	25	1,000	
1597	Isophorone diisocyanate	4098-71-9	0.04	0.15	1.25	50	
1598	Isophthalic acid	121-91-5	10	30	50	500	WEEL-TWA, rat oral LD50
1599	Isoprene	78-79-5	5	13.9	2,780	11,100	WEEL-TWA, ERPG-1, ERPG-2, ERPG-3.
1600	Isopropyl acetate	108-21-4	1,000	1,250	1,250	7,500	
1601	Isopropyl alcohol	67-63-0	1,000	1,000	5,000	5,000	
1602	Isopropyl chloride; (2-Chloropropane)	75-29-6	150	500	50,000	50,000	WEEL-TWA, rat TClo, rat LC50.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1603	Isopropyl chloroformate; (Isopropyl chlorocarbonate)	108-23-6	0.75	2	16.5	50.1	AEGL-2/21, AEGL-2/7, AEGL-2, AEGL-3.
1604	Isopropyl ether; (Diisopropyl ether)	108-20-3	1,250	1,250	1,250	6,000	Concentration limits, human TClo.
1605	Isopropyl methanefluorophosphate; (Sarin; GB)	107-44-8	0.0008	0.0027	0.0344	0.126	AEGL-1/3, AEGL-1, AEGL-2, AEGL-3
1606	Isopropyl nitrate	1712-64-7	6	20	600	3,000	Russian STEL, rat 240 min LC50
1607	Isopropyl titanate(IV); (Titanium(IV) isopropoxide)	546-68-9	30	75	500	500	
1608	Isopropylamine; (2-Propanamine)	75-31-0	12.5	25	300	1,500	
1609	Isopropylmagnesium chloride; (Chloro (1-methylethyl) magnesium)	1068-55-9	1	3	20	100	
1610	Isopropylmethylpyrazolyl dimethylcarbamate; (Isolan)	119-38-0	1	3.5	5.6	5.6	
1611	Isopropyltoluene, 4-; (p-Cymene)	99-87-6	75	250	500	500	Human TD lo, rat oral LD50.
1612	Jeffamine M-600	77110-54-4	10	30	50	250	Used PNOS default.
1613	Jet fuels (JP-5 and JP-8)	70892-10-3	100	290	500	500	REL-TWA, AEGL-1, AEGL-2, human oral LDlo.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1614	Kaolin; (Aluminum silicate hydroxide)	1332-58-7	5	6	125	500	
1615	Kepone; (Chlordecone)	143-50-0	0.001	0.003	0.6	40	
1616	Kerosene	8008-20-6	100	290	500	500	REL-TWA, AEGL-1, AEGL-2, human oral LD ₅₀
1617	Ketene; (Carbomethene, Ethenone)	463-51-4	0.75	2.5	2.5	7.5	PEL-TWA, PEL-STEL, IDLH.
1618	Krypton	7439-90-9	200,000	200,000	750,000	1,250,000	Simple asphyxiant (see Introduction)
1619	Lactic acid	50-21-5	15	40	300	500	
1620	Lactic acid, sodium salt, DI-; (Propanoic acid, 2-hydroxy-, monosodium salt)	312-85-6	10	30	50	250	PNOS default used.
1621	Lactonitrile	78-97-7	3.5	10	18	150	
1622	Lactose, beta-D; (beta-D-Glucopyranose)	5965-66-2	10	30	50	250	Used PNOS default.
1623	Lanthanum	7439-91-0	10	30	50	250	
1624	Lanthanum alizarin (as La)	z-0026	10	30	50	250	

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1625	Lanthanum boride	12008-21-8	14.7	44	75	350	Used PNOS default as La
1626	Lanthanum carbonate	6487-39-4	10	30	50	250	
1627	Lanthanum chloride	10099-58-8	6	20	125	500	Rat 120 min TClo, rat oral LD50.
1628	Lanthanum fluoride	13709-38-1	8.59	8.59	50	250	
1629	Lanthanum hydroxide	14507-19-8	0.2	0.75	2	2.5	SAR
1630	Lanthanum nitrate	10099-59-9	0.4	1.25	7.5	500	
1631	Lanthanum oxide	1312-81-8	40	125	500	500	
1632	Lanthanum phosphate	14913-14-5	0.3	0.75	3	3	SAR
1633	Lanthanum(III) nitrate hexahydrate	10277-43-7	1.5	5	35	150	
1634	Lauryl sulfate; (Dodecyl sulfate)	151-41-7	5	15	100	500	Rat oral LD50.
1635	Lead	7439-92-1	0.05	0.15	0.25	100	

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1636	Lead acetate(II), trihydrate; (Bis(acetato)trihydroxytrilead)	6080-56-4	0.0915	0.275	100	183	
1637	Lead acetate, basic; (Lead subacetate)	1335-32-6	0.065	0.195	130	130	
1638	Lead acetate; (Lead diacetate)	301-04-2	0.0785	0.235	75	157	
1639	Lead acid arsenate; (Dibasic lead arsenate)	7784-40-9	0.0838	0.251	168	168	
1640	Lead arsenate	3687-31-8	0.012	0.012	0.012	30	
1641	Lead bromide	10031-22-8	0.0886	0.266	0.443	177	PEL-TWA, IDLH.
1642	Lead carbonate	598-63-0	0.0645	0.193	4	500	
1643	Lead chloride	7758-95-4	0.0671	0.201	7.5	134	
1644	Lead chromate	7758-97-6	0.0311	0.186	1	93.2	Cr VI concentration limits.
1645	Lead dioxide	1309-60-0	0.0577	0.1731	20	115	
1646	Lead fluoborate	13814-96-5	0.0919	0.276	0.459	184	

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1647	Lead fluoride	7783-46-2	0.0592	0.178	12.5	118	
1648	Lead hydroxide	19783-14-3	0.0582	0.175	0.3	1.5	
1649	Lead iodide	10101-63-0	0.111	0.334	0.556	222	
1650	Lead nitrate	10099-74-8	0.0799	0.6	4	160	
1651	Lead nitrite	13826-65-8	0.0722	0.217	0.361	1.5	
1652	Lead oxalate	814-93-7	0.0712	0.214	0.356	1.5	
1653	Lead oxide; (Lead monoxide)	1317-36-8	0.0539	0.0539	0.0539	108	
1654	Lead phosphate	7446-27-7	0.0653	0.196	30	150	
1655	Lead sulfate; (Lead(II) sulfate (1:1))	7446-14-2	0.0732	0.2196	30	146	Inorganic Pb concentration limits, as Pb.
1656	Lead sulfide	1314-87-0	0.0577	0.173	350	500	
1657	Lead tetroxide	1314-41-6	0.0551	0.165	0.276	110	

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The "Source of PACs" column will be enhanced in the near future to improve the clarity and completeness of its information.

Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1658	Lead(II) arsenite	10031-13-7	0.0281	0.0843	0.14	14	
1659	Lead(II) perchlorate hydrate	13453-62-8	0.111	0.333	0.555	100	Lead inorganic concentration limits,
1660	Leco set 7007 powder	z-0027	10	30	50	250	
1661	Leptophos	21609-90-5	6	15	30	30	
1662	Lewisite 2; (Bis(2-chlorovinyl)chloroarsine)	40334-69-8	0.12	0.12	0.12	0.74	AEGL-2, AEGL-2, AEGL-2, AEGL-3.
1663	Lewisite 3; (Tris(2-chlorovinyl)arsine)	40334-70-1	0.12	0.12	0.12	0.74	AEGL-2, AEGL-2, AEGL-2, AEGL-3.
1664	Lignosulfonate (aqueous)	8062-15-5	10	30	500	500	
1665	Limonene, d-	5989-27-5	150	500	750	2,000	WEEL-TWA, rat oral TD lo, rat oral LD50.
1666	Lindane; (gamma-Benzenehexachloride)	58-89-9	0.5	1.5	50	50	
1667	Linseed oil	8001-26-1	0.5	1.5	10	60	
1668	Liquified petroleum gas; (L.P.G.)	68476-85-7	1,500	3,500	3,500	3,500	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1669	Lithium	7439-93-2	10	30	50	400	
1670	Lithium acetate dihydrate	6108-17-4	12.5	35	250	500	
1671	Lithium aluminate	12003-67-7	12.2	36.6	61.1	300	Aluminum pyro powders, as Al, TLV-TWA.
1672	Lithium aluminum oxide; (Lithium aluminate)	11089-89-7	10	30	50	250	
1673	Lithium aluminum silicate; (Spodumene (mineral); Petalite)	1302-66-5	2	6	10	50	
1674	Lithium azide	19597-69-4	10	10	10	10	
1675	Lithium borohydride; (Lithium tetraborate)	16949-15-8	4.03	12.1	20.2	35	Borate TLV-TWA, -STEL, mammal LC50.
1676	Lithium bromide	7550-35-8	1	7	15	500	
1677	Lithium carbonate	554-13-2	0.2	0.6	4	200	Human oral TD lo, rat oral LD50
1678	Lithium chloride	7447-41-8	0.5	1.5	10	60	
1679	Lithium chromate; (Lithium chromate dihydrate)	14307-35-8	0.016	0.479	0.798	47.9	Cr VI concentration limits.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1680	Lithium deuteride	13587-16-1	0.0282	0.0282	0.1	0.5	Used Li.H (7580-67-8) PACs.
1681	Lithium diisopropylamide; (LDA)	4111-54-0	10	30	50	250	PNOS default used.
1682	Lithium fluoride	7789-24-4	3.41	10.2	17.1	341	
1683	Lithium hydride	7580-67-8	0.025	0.025	0.1	0.5	PEL-TWA, ERPG-1, ERPG-2, ERPG-3.
1684	Lithium hydroxide	1310-65-2	0.05	0.15	1	100	WEEL-C, rat 240-min LC50
1685	Lithium hydroxide monohydrate	1310-66-3	0.05	0.15	1	100	
1686	Lithium iodide	10377-51-2	10	30	50	250	PNOS default.
1687	Lithium metaborate, anhydrous	13453-69-5	2	6	10	50	Inorganic borate compounds TLV-TWA and TLV-STEL
1688	Lithium molybdate	13568-40-6	9.06	27.2	45.3	200	
1689	Lithium niobium oxide; (Lithium niobate)	12031-63-9	5	15	25	500	
1690	Lithium nitrate	7790-69-4	10	30	50	250	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1691	Lithium nitride	26134-62-3	10	10	10	10	
1692	Lithium nitrite	13568-33-7	0.025	0.06	0.4	40	SAR
1693	Lithium perchlorate, anhydrous	7791-03-9	0.0005	0.0015	0.01	0.06	IRIS LOEL.
1694	Lithium stearate	4485-12-5	60	150	500	500	
1695	Lithium sulfate	10377-48-7	0.15	0.5	3.5	500	
1696	Lithium tetraborate	12007-60-2	10	30	50	250	PNOS default.
1697	Lithium tetraborate pentahydrate	1303-94-2	1	3	5	25	NIOSH REL-TWA
1698	Lithium tetrahydroaluminate(1-); (Lithium aluminum hydride)	16853-85-3	2.81	2.81	7.5	35	Al sol. Salt concentration limits, mouse oral LD50.
1699	Lithium triethylborodeuteride; (Super-deuteride)	74540-86-6	10	30	50	250	PNOS default used.
1700	Lithium triethylborohydride, super-hydride	22560-16-3	1.5	5	35	150	Rat oral LD50 based on HHR.
1701	Lubricating oil, rerefined	68476-77-7	10	30	50	250	PNOS default used.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1702	Lutetium	7439-94-3	1.5	5	35	150	Rat oral LD50 based on HHR = 3.
1703	Lutetium oxide	12032-20-1	10	30	50	250	
1704	Lutidine, 2,6-; (2,6-Dimethylpyridine)	108-48-5	350	1,000	6,000	35,000	Rat 60 min LC lo.
1705	Magnesium	7439-95-4	10	30	50	250	
1706	Magnesium acetate tetrahydrate	16674-78-5	0.75	2.5	20	100	
1707	Magnesium carbonate hydroxide	7760-50-1	10	30	50	250	PNOS default.
1708	Magnesium carbonate; (Magnesite)	546-93-0	15	30	50	250	
1709	Magnesium carbonate-magnesium hydroxide, pentahydrate	39409-82-0	48.8	97.7	163	500	Magnesite PEL-TWA.
1710	Magnesium chloride	7786-30-3	10	30	50	500	
1711	Magnesium chloride hexahydrate	7791-18-6	75	250	500	500	
1712	Magnesium ethoxide	2414-98-4	47.1	141	235	500	Used Mg.O TLV-TWA

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1713	Magnesium fluoride	7783-40-6	4.1	12.3	20.5	410	
1714	Magnesium formate	557-39-1	10	30	50	250	Used PNOS default.
1715	Magnesium hydroxide	1309-42-8	75	200	500	500	
1716	Magnesium iodate tetrahydrate	7790-32-1	10	30	50	250	PNOS default.
1717	Magnesium nitrate hexahydrate	13446-18-9	20	60	400	500	
1718	Magnesium nitrate; (Magnesium(II) nitrate (1:2))	10377-60-3	10	30	50	250	
1719	Magnesium oxide	1309-48-4	10	30	150	500	
1720	Magnesium silicate hydrate	1343-90-4	10	30	50	250	
1721	Magnesium silicate; (Florasil)	1343-88-0	10	30	50	500	
1722	Magnesium sulfite (1:1)	7487-88-9	0.5	1.5	10	125	
1723	Magnesium sulfate heptahydrate	10034-99-8	5	15	100	500	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1724	Magnesium(II) nitrate (1:2), hexahydrate	10213-15-7	20	60	400	500	
1725	Malathion	121-75-5	15	30	50	250	
1726	Maleic acid	110-16-7	3	7.5	60	300	Rat oral LD50.
1727	Maleic acid, disodium salt	371-47-1	25	75	500	500	Rat oral LD50.
1728	Maleic anhydride	108-31-6	0.8	0.8	8	80.2	ERPG-1, ERPG-1 , ERPG-2 , ERPG-3 .
1729	Maleic hydrazide; (3,6-Pyridazinedione,1,2-dihydro-)	123-33-1	0.6	2	12.5	500	
1730	Malic acid, DL-	617-48-1	6	20	125	500	Mouse oral LD50 minimum,
1731	Malonic acid; (Carboxyacetic acid)	141-82-2	10	15	100	500	
1732	Mancozeb; (Dithane M-45)	8018-01-7	1	3	200	500	WEEL-TWA, rat oral TD lo, rat oral LD50
1733	Manganese	7439-96-5	0.2	3	5	500	
1734	Manganese carbonate	598-62-9	0.418	6.28	10.5	500	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1735	Manganese dioxide	1313-13-9	0.317	4.75	79.1	500	
1736	Manganese hydroxide	18933-05-6	0.324	4.86	8.1	500	
1737	Manganese nitrite	z-0029	0.535	8.02	13.4	500	
1738	Manganese oxalate	640-67-5	0.52	7.81	13	500	
1739	Manganese oxide; (Manganese tetroxide)	1317-35-7	0.278	0.833	69.4	500	
1740	Manganese phosphate	10124-54-6	0.43	6.46	10.8	500	
1741	Manganese tricarbonyl methylcyclopentadienyl	12108-13-3	0.6	0.6	0.6	7.5	
1742	Manganese(II) chloride (1:2); (Manganous chloride)	7773-01-5	0.458	6.87	11.5	100	
1743	Manganese(II) chloride tetrahydrate	13446-34-9	0.721	10.8	180	500	
1744	Manganese(II) nitrate	10377-66-9	0.651	9.77	16.3	500	
1745	Manganese(II) nitrate hydrate	15710-66-4	0.717	10.8	17.9	500	Mn inorganic compound concentration limits.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1746	Manganese(II) sulfate monohydrate	10034-96-5	0.615	9.23	15.4	75	
1747	Manganese(III) oxide	1317-34-6	0.287	4.31	71.8	500	Mn inorganic concentration limits, rat it LD ₅₀ .
1748	Manganese(VII) oxide	12057-92-0	0.404	6.06	10.1	50	
1749	Manganous oxide; (Manganese(II) oxide)	1344-43-0	0.258	0.775	6.46	150	
1750	Manganous sulfate	7785-87-7	0.55	8.25	13.7	500	
1751	Manganous sulfide; (Manganese(II) sulfide)	18820-29-6	0.317	0.95	7.92	500	
1752	Mastic (resin)	61789-92-2	4	12.5	100	500	
1753	Melamine	108-78-1	10	10	10	350	WEEL-TWA, rat TC ₁₀ , rat LC ₅₀ .
1754	Mephosfolan	950-10-7	1.5	5	9	9	
1755	Mercaptoacetic acid; (Thioglycolic acid)	68-11-1	3.5	3.5	4	20	TLV-TWA, rat LC ₅₀ .
1756	Mercaptobenzoic acid, O-	147-93-3	0.2	0.6	4	20	Mouse ip LD ₅₀ .

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1757	Mercaptobenzothiazole, 2-; (2-Benzothiazolethiol)	149-30-4	5	15	40	40	WEEL-TWA, pregnant rat TD lo. rat oral LD50.
1758	Mercaptoethanol, 2-	60-24-2	0.6	6	40	600	WEEL-TWA, rat oral TD lo, mouse LC50.
1759	Mercaptopropionic acid, 3-	107-96-0	0.25	0.75	6	40	Mouse subcutaneous TD lo, rat oral LD50.
1760	Mercuric acetate	1600-27-7	0.01	0.03	0.1	2	Mercury organic concentration limits.
1761	Mercuric cyanide	592-04-1	0.025	0.1	10	10	Mercury inorganic concentration limits.
1762	Mercuric iodide; (Mercury(II) iodide)	7774-29-0	0.0566	0.17	0.227	22.7	Mercury inorganic concentration limits.
1763	Mercuric sulfate; (Mercury(II) sulfate)	7783-35-9	0.037	0.148	0.148	14.8	Mercury inorganic concentration limits.
1764	Mercuric thiocyanate; (Mercuric sulfocyanate)	592-85-8	0.0395	0.118	0.158	15.8	Mercury inorganic concentration limits.
1765	Mercuric trifluoroacetate	13257-51-7	0.0213	0.0638	0.0851	4.3	Mercury, Alkyl compounds, as Hg concentration limits.
1766	Mercuriol; (Mercury nucleate)	12002-19-6	0.025	0.075	0.1	10	Mercury inorganic concentration limits.
1767	Mercurous chloride (see also MCY300)	7546-30-7	0.0294	0.0883	0.118	11.8	Mercury inorganic concentration limits.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1768	Mercurous nitrate monohydrate	7782-86-7	0.0351	0.14	0.14	14	Mercury inorganic concentration limits.
1769	Mercurous nitrate; (Mercury(I) nitrate(1:1))	10415-75-5	0.0327	0.131	0.131	13.1	Mercury inorganic concentration limits.
1770	Mercurous oxide	15829-53-5	0.026	0.104	0.104	10.4	Mercury inorganic concentration limits.
1771	Mercury hydroxide	12135-13-6	0.0292	0.117	0.117	11.7	Mercury inorganic concentration limits.
1772	Mercury nitrate; (Mercury(II) nitrate (1:2))	10045-94-0	0.0405	0.162	0.162	16.2	Mercury inorganic concentration limits.
1773	Mercury nitrite	13492-25-6	0.0365	0.146	0.146	14.6	Mercury inorganic concentration limits.
1774	Mercury vapor	7439-97-6	0.025	0.1	1.7	8.9	TLV-TWA, TLV-TWA*3, AEGL-2, AEGL-3.
1775	Mercury(I) chloride	10112-91-1	0.0294	0.0883	1.18	11.8	Mercury inorganic concentration limits.
1776	Mercury(II) chloride	7487-94-7	0.0338	0.135	13.5	13.5	Mercury inorganic concentration limits.
1777	Mercury(II) nitrate monohydrate	7783-34-8	0.0427	0.128	0.171	17.1	Mercury inorganic compounds concentration limits.
1778	Mercury(II) oxide; (Mercuric oxide)	21908-53-2	0.027	0.108	1.08	10.8	Mercury inorganic concentration limits.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1779	Mesitylene; (1,3,5-Trimethyl benzene)	108-67-8	125	125	125	2,500	
1780	Metaphosphoric acid	37267-86-0	10	30	50	250	Used PNOS default.
1781	Methacrolein diacetate; (Acetic acid, 2-methyl-2-propene-1,1-diol diester)	10476-95-6	7.5	25	44	44	
1782	Methacrylaldehyde	78-85-3	0.35	1	7.5	40	
1783	Methacrylamide	79-39-0	0.015	0.04	0.3	200	Human TClo, rat LD50.
1784	Methacrylic acid	79-41-4	23.6	23.6	215	774	AEGL-1, AEGL-1, AEGL-2, AEGL-3.
1785	Methacrylic acid diester with triethylene glycol; (Polyester TGM3)	109-16-0	10	30	50	500	
1786	Methacrylic anhydride	760-93-0	0.75	2.5	4.5	150	
1787	Methacrylonitrile; (Methylacrylonitrile)	126-98-7	2.74	2.74	35.7	68.6	AEGL-1, AEGL-1, AEGL-2, AEGL-3.
1788	Methacryloyl chloride	920-46-7	0.125	0.35	0.6	25	
1789	Methamidophos	10265-92-6	3.5	10	60	60	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1790	Methane	74-82-8	600	2,000	3,000	125,000	TLV-TWA for aliphatic hydrocarbon gases, mouse 120 min LC50.
1791	Methane (d-3)	676-80-2	750	2,000	4,000	20,000	TLV-TWA.
1792	Methanesulfonic acid	75-75-2	4	12.5	75	400	
1793	Methanesulfonic acid, ethyl ester; (Ethyl methanesulfonate)	62-50-0	0.5	1.5	10	150	
1794	Methanesulfonyl chloride	124-63-0	1.5	4	20	20	
1795	Methanesulfonyl fluoride	558-25-8	12.5	12.5	12.5	12.5	
1796	Methidathion; (O,O'-Dimethyl-S-(5-methoxy-1,3,4-thiadiazoliny)-3-methyldithiophosphate)	950-37-8	1	3	20	400	
1797	Methiocarb; (Mercaptodimethur)	2032-65-7	3	7.5	15	15	
1798	Methomyl	16752-77-5	2.5	7.5	10	200	
1799	Methoxybenzaldehyde; (p-Anisaldehyde)	123-11-5	0.075	0.2	1.5	500	Rat oral TD lo, rat oral LD50.
1800	Methoxybenzyl alcohol, 4-	105-13-5	7.5	25	200	500	Rat skin TD lo, rat oral LD50.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1801	Methoxychlor	72-43-5	15	30	250	500	
1802	Methoxyethoxy)ethanol, 2-(2-; (Diethylene glycol monomethyl ether)	111-77-3	1.5	1.5	1.5	1.5	
1803	Methoxyethylamine, 2-	109-85-3	1.5	5	35	150	
1804	Methoxyethylmercuric acetate	151-38-2	0.0159	0.0477	3.18	3.18	
1805	Methoxyphenol, P-	150-76-5	5	15	100	500	Mouse ip TD lo, rat oral LD50.
1806	Methoxypropylamine, 3-; (3-MPA)	5332-73-0	15	50	50	150	WEEL-TWA, WEEL-STEL, MOUSE IV LD50.
1807	Methoxytrimethylsilane	1825-61-2	0.2	2	7.5	20	SAR
1808	Methyl 2-cyanoacrylate; (Permabond 910 adhesive)	137-05-3	0.75	15	60	60	
1809	Methyl 2-pyrrolidinone, 1-; (n-Methylpyrrolidone)	872-50-4	40	40	100	100	WEEL-TWA, rat TClo, rat LC lo.
1810	Methyl acetate	79-20-9	600	750	1,500	7,500	Concentration limits.
1811	Methyl acetylene	74-99-7	1,500	2,500	2,500	2,500	

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The "Source of PACs" column will be enhanced in the near future to improve the clarity and completeness of its information.

Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1812	Methyl acetylene-propadiene mixture; (MAPP)	59355-75-8	3,000	4,000	4,000	10,000	PEL-TWA, TLV-STEL, IDLH.
1813	Methyl acrylate	96-33-3	6	6	25	500	
1814	Methyl alcohol d	1455-13-6	250	350	1,250	7,500	Methanol concentrtration limits.
1815	Methyl alcohol; (Methanol)	67-56-1	250	694	2,750	9,430	PEL-TWA, AEGL-1, AEGL-2, AEGL-3.
1816	Methyl alcohol-d4	811-98-3	200	250	500	500	Methanol concentrtration limits.
1817	Methyl benzoate; (Benzoic acid methyl ester)	93-58-3	12.5	35	250	500	Rat oral TD lo, rat oral LD50.
1818	Methyl bromide; (Bromomethane)	74-83-9	4	75	815	2,870	TLV-TWA, PEL-C, AEGL-2, AEGL-3.
1819	Methyl butylacrylate, 2-; (Butyl methacrylate)	97-88-1	2.5	7.5	50	500	
1820	Methyl chloride	74-87-3	200	200	1,880	6,190	PEL-TWA, TLV-STEL, AEGL-2, AEGL-3.
1821	Methyl chloroformate; (Methyl chlorocarbonate)	79-22-1	0.75	1.25	8.5	25.9	MAK-TWA, AEGL-2/7, AEGL-2, AEGL-3.
1822	Methyl chlorosilane; (Chloromethylsilane)	993-00-0	0.6	2	12.5	60	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1823	Methyl cyclohexylfluorophosphate; (GF)	329-99-7	0.0005	0.0015	0.0177	0.133	AEGL-1/3, AEGL-1, AEGL-2, AEGL-3
1824	Methyl demeton methyl; (Phosphorothioic acid, O,O-dimethyl-S-(2-methylthio)ethyl ester)	2587-90-8	4	12.5	20	20	
1825	Methyl difluorophosphite; (Methylphosphonic difluoride)	676-99-3	0.75	2.5	20	100	
1826	Methyl ether; (Dimethyl ether)	115-10-6	1,500	5,000	7,500	125,000	WEEL-TWA, human TClo, rat LC50.
1827	Methyl ethyl ketone peroxide	1338-23-4	1.5	1.5	150	150	
1828	Methyl fluoride; (Fluoromethane)	593-53-3	4.48	13.4	22.4	448	
1829	Methyl fluoroacetate	453-18-9	0.015	0.05	0.35	5	
1830	Methyl fluorosulfate	421-20-5	0.01	0.035	0.25	1.25	
1831	Methyl formate; (Formic acid, methyl ester)	107-31-3	250	350	2,000	10,000	
1832	Methyl iodide	74-88-4	30	145	290	725	PEL-TWA, ERPG-1, ERPG-2, ERPG-3.
1833	Methyl isobutyl ketone; (Hexone)	108-10-1	300	300	2,000	2,000	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1834	Methyl isocyanate	624-83-9	0.04	0.058	0.156	0.466	PEL-TWA, ERPG-1, AEGL-2, AEGL-3
1835	Methyl isopropyl ketone; (3-Methyl-2-butanone)	563-80-4	600	600	600	2,000	
1836	Methyl isothiocyanate; (Isothiocyanatomethane)	556-61-6	1.5	4	33	500	
1837	Methyl lithium	917-54-4	1	3	20	100	
1838	Methyl mercaptan	74-93-1	1	20	92.4	134	TLV-TWA, PEL-C, AEGL-2, AEGL-3.
1839	Methyl mercury	22967-92-6	0.0107	0.0322	0.043	0.2	
1840	Methyl methacrylate	80-62-6	69.6	69.6	491	2,330	AEGL-1, AEGL-1, AEGL-2, AEGL-3.
1841	Methyl n-amyl ketone	110-43-0	400	400	600	3,500	
1842	Methyl nitrate; (Nitric acid methyl ester)	598-58-3	15	50	350	1,500	Rat LC50
1843	Methyl nonafluorobutyl ether (40%) and Methyl nonafluoroisobutyl ether (60%) (ppm) (HFE-7100) B2533	163702-07-6 163702-08-7	7,500	25,600	83,800	153,000	WEEL-TWA, AEGL-1, AEGL-2, AEGL-3

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1844	Methyl parathion	298-00-0	0.2	0.34	0.34	15	
1845	Methyl phencapton	3735-23-7	2	6	11	100	
1846	Methyl phosphonic dichloride	676-97-1	0.06	0.2	1.4	15	
1847	Methyl phosphonothioic dichloride	676-98-2	1.5	4	30	150	
1848	Methyl pyridine, 3-: (3-Picoline)	108-99-6	7.5	15	500	2,500	WEEL-TWA, WEEL-STEL, rat 120 min LC lo.
1849	Methyl salicylate	119-36-8	0.75	2.5	15	75	
1850	Methyl sulfoxide-D6; (Dimethyl-D6-sulfoxide)	2206-27-1	35	100	500	500	
1851	Methyl tert-butyl ether	1634-04-4	150	500	750	35,000	
1852	Methyl thiocyanate	556-64-9	15	40	75	75	
1853	Methyl vinyl carbinol; (3-Buten-2-ol)	598-32-3	0.6	2	15	75	
1854	Methyl vinyl ketone; (3-Buten-2-one)	78-94-4	0.6	0.6	0.6	0.75	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1855	Methyl-1-butene, 2-	563-46-2	150,000	150,000	600,000	1,000,000	Simple asphyxiant
1856	Methyl-1H-benzotriazole	29385-43-1	10	30	50	300	
1857	Methyl-1-phenyl-2-pyrazolin-5-one, 3-	89-25-8	15	40	300	500	
1858	Methyl-1-propanethiol, 1-; (sec-Butyl mercaptan; 2-Butanethiol)	513-53-1	7.5	20	150	750	Rat 240 min LC50 based on HHR = 2.
1859	Methyl-1-propen-1-one, 2-; (Dimethylketene)	598-26-5	0.075	0.25	2	10	
1860	Methyl-2-(1-methylethyl)phenol, 5-; (Thymol)	89-83-8	0.075	0.25	1.5	400	Rat sc TD lo pre, rat oral LD50.
1861	Methyl-2-butene, 2-	513-35-9	6	15	125	600	Rat LC50 estimated from HHR = 2.
1862	Methyl-2-chloroacrylate	80-63-7	0.25	0.75	5	35	
1863	Methyl-2-heptanone, 6-	928-68-7	10	30	50	250	PNOS default.
1864	Methyl-2-hexanone, 5-: (Methyl isoamyl ketone)	110-12-3	400	600	7,500	7,500	
1865	Methyl-3-penten-2-one, 4-; (Mesityl oxide)	141-79-7	100	100	100	5,000	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1866	Methyl-4-penten-2-one, 4-	3744-02-3	100	100	100	5,000	
1867	Methyl-5-nitroaniline, 2-; (5-Nitro-o-toluidine; Benzenamine, 2-methyl-5-nitro-)	99-55-8	7.5	20	150	250	
1868	Methyl-5-vinylpyridine, 2-	140-76-1	0.35	1	1.9	40	
1869	Methyl-8-quinolinol, 2-	826-81-3	10	30	50	250	PNOS default.
1870	Methylal; (Dimethoxymethane)	109-87-5	3,000	6,000	6,000	6,000	
1871	Methylamine hydrochloride	593-51-1	3.5	10	60	500	Mouse ip TD lo, rat oral LD50.
1872	Methylamino)ethanol, 2-(	109-83-1	10	30	200	1,000	Rat oral LD50.
1873	Methylaniline, n-	100-61-8	7.5	7.5	10	400	
1874	Methylaziridine, 1-	1072-44-2	4	4	4	200	SAR
1875	Methylbutanamide, 3-; (Isovaleramide)	541-46-8	6	20	125	500	
1876	Methylbutylamine, N-	110-68-9	7.5	20	150	750	Rat 240 min LC lo.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1877	Methylcellulose	9004-67-5	10	30	50	500	
1878	Methylchlorosilane; (Chloromethyldisilane)	68937-17-7	0.4	1.25	10	50	
1879	Methylcholanthrene 3-	56-49-5	0.2	0.6	4	75	
1880	Methylcyclohexane	108-87-2	2,000	5,000	5,000	5,000	Concentration limits
1881	Methylcyclohexanone	1331-22-2	7.5	25	150	750	
1882	Methylcyclohexanone, 2-; (o-Methylcyclohexanone)	583-60-8	350	350	500	2,500	
1883	Methylcyclopentane	96-37-7	15	40	300	12,500	Rat oral TD lo, Mouse LC lo (120 min assumed)
1884	Methyldecane, 4-	2847-72-5	10	30	50	250	PNOS default.
1885	Methylene bis(2-chloroaniline), 4,4'-; (MBOCA)	101-14-4	0.1	0.3	5	500	
1886	Methylene bis(4-isocyanatocyclohexane), 1,1'-	5124-30-1	0.05	0.05	0.1	2	
1887	Methylene chloride	75-09-2	75	696	1,940	24,000	PEL-TWA, AEGL-1, AEGL-2, AEGL-3.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1888	Methylene diphenyl diisocyanate; (Diphenylmethane diisocyanate; MDI)	101-68-8	0.05	0.2	2	25	TLV-TWA, ERPG-1, ERPG-2, ERPG-3.
1889	Methylene fluoride; (1,2,-Difluoromethane; HFC-32)	75-10-5	2,000	6,000	100,000	750,000	WEEL-TWA, rat TClo, rat 240 min LC50.
1890	Methylenebis(isocyanato-benzene), 1,1'-; (Diphenyl methane diisocyanate)	26447-40-5	5	15	25	125	PEL-TWA as CN.
1891	Methylenebisacrylamide copolymer, n,n-	25034-58-6	10	30	50	250	Used PNOS default
1892	Methylenebisacrylamide, n,n'-	110-26-9	1.5	5	35	150	Mouse oral TD lo, rat oral LD50
1893	Methylenedianiline, 4,4'-	101-77-9	0.075	0.75	4	150	
1894	Methylethyl hydroperoxide, 1-; (Isopropyl hydroperoxide)	3031-75-2	0.6	1.5	12.5	60	
1895	Methylformamide, N-	123-39-7	40	125	750	1,000	Rat TClo, rat oral LD50.
1896	Methylfuran, 2-	534-22-5	20	60	150	150	
1897	Methylheptane, 2-	592-27-8	10	30	200	1,000	Estimated rat 240 min LC50 from HHR.
1898	Methylheptane, 4-	589-53-7	40	125	200	1,000	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1899	Methylhydrosiloxane (3-4%) + dimethylsiloxane (96-97%) copolymer	68037-59-2	10	30	50	250	PNOS TLV-TWA default used.
1900	Methylimidazole	822-36-6	20	60	300	300	Rat oral TD lo, rat oral LD50.
1901	Methylimidazole, 1-	616-47-7	6	15	125	500	Mouse oral LD50.
1902	Methylactic acid ethyl ester, 2-; (Ethyl 2-hydroxyisobutyrate)	80-55-7	15	50	400	500	
1903	Methylactonitrile 2-; (Acetone cyanohydrin)	75-86-5	5	6.96	24.7	52.2	WEEL-TWA, AEGL-1, AEGL-2, AEGL-3.
1904	Methylmagnesium bromide, 3.0 m in diethyl ether	75-16-1	2	6	40	200	Rat 240 min LC50 based on HR =3.
1905	Methylmagnesium chloride	676-58-4	1.5	5	35	150	Rat oral LD50 based on HHR = 3.
1906	Methylmercuric dicyanamide	502-39-6	0.0149	0.0447	2.98	2.98	
1907	Methylmorpholine, 4-	109-02-4	7.5	25	150	750	Rat 240 min LC lo
1908	Methylnaphthalene, 1-	90-12-0	6	20	500	500	
1909	Methylnaphthalene, 2-	91-57-6	6	20	125	500	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1910	Methylnitrosopiperidine, 3-; (Piperidine, 3-methyl-1-nitroso-)	13603-07-1	0.3	0.75	6	30	
1911	Methylnonane, 4-	17301-94-9	12.5	40	250	1,250	Estimated rat LC50.
1912	Methylpentane, 2-; (Isohexane)	107-83-5	1,500	1,500	1,500	7,500	
1913	Methylpentane, 3-	96-14-0	1,500	1,500	1,500	7,500	Concentration limits (TLV-TWA, STEL, REL-C).
1914	Methylpentanol-1, 2-; (Amyl methyl alcohol)	105-30-6	1	3	20	600	Human TClo, rat oral LD50.
1915	Methylphenol, 2-; (o-Cresol)	95-48-7	20	20	100	1,000	
1916	Methylphenol, 3-; (m-Cresol)	108-39-4	20	20	100	1,000	
1917	Methylphenol, 4-; (p-Cresol)	106-44-5	20	20	100	1,000	
1918	Methylphenylthiourea, 2-; (o-Tolyl thiourea)	614-78-8	10	30	50	50	
1919	Methylphosphonate	993-13-5	10	10	10	10	PNOS default.
1920	Methylphosphonothioic acid-O-(4-nitrophenyl)-O-phenyl ester	2665-30-7	1.5	5	8	8	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1921	Methylphosphonothioic acid-O-ethyl O-(4-(methylthio)phenyl) ester	2703-13-1	2	6	10	10	LOC, rat oral LDlo.
1922	Methylpropane, 2-; (Isobutane)	75-28-5	1,500	5,000	7,500	35,000	
1923	Methylpropene, 2- (Isobutene)	115-11-7	2,500	7,500	50,000	250,000	
1924	Methylpropylnitrosoamine; (N-Methyl-N-nitroso-1-propanamine)	924-46-9	0.04	0.125	0.75	15	
1925	Methylpyridine, 2-; (2-Picoline)	109-06-8	7.5	15	15	1,250	WEEL-TWA, WEEL-STEL, rat oral TD lo, rat LC50
1926	Methylpyrrole, N-	96-54-8	75	250	500	500	Rat oral LD50 based on HHR
1927	Methylpyrrolidine; (Methylpyrrolidine, 1-)	120-94-5	0.75	2	15	75	Mouse ip LD50
1928	Methylstyrene, Alpha-	98-83-9	250	500	500	3,500	Concentration limits.
1929	Methyltetrahydrofuran, 2-	96-47-9	20	60	400	2,000	Rat LC50
1930	Methyltriacetoxysilane	4253-34-3	7.5	25	150	500	
1931	Methyltrichlorosilane; (Trichloromethyl silane)	75-79-6	1.25	3.67	37.9	171	AEGL-1/3, AEGL-1, AEGL-2, AEGL-3.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1932	Methyltriethoxysilane	2031-67-6	40	125	750	4,000	Rat 480 min LC lo.
1933	Methyl-trifluoromethanesulfonate	333-27-7	7.2	21.6	36	500	
1934	Methyltrimethoxysilane	1185-55-3	50	150	500	500	Rat oral LD50
1935	Methyltrioctylammonium chloride	5137-55-3	0.75	2.5	20	100	
1936	Methylvinyl,dimethylsiloxane copolymer,vinyl terminated	68083-18-1	10	30	50	250	PNOS default used.
1937	Metolcarb; (Methylcarbamic acid m-tolyl ester)	1129-41-5	1	3	4.8	200	
1938	Mevinphos; (Phosdrin)	7786-34-7	0.1	0.27	4	4	
1939	Mexacarbate; (4-(Dimethylamine)-3,5-xylyl N-methylcarbamate)	315-18-4	2.5	7.5	14	14	
1940	Mica; (mica silicates)	12001-26-2	3	9	15	75	
1941	Michler's ketone; (4,4'-bis(dimethylamino)benzophenone)	90-94-8	1	3.5	25	40	
1942	Mineral fibers, fine	z-0032	10	30	50	50	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1943	Mineral oil, heavy or light; (Paraffin oil; Deobase, deodorized)	8020-83-5	0.2	0.6	500	500	
1944	Mineral oil, petroleum distillates, heavy naphthenic	64741-53-3	0.2	0.6	100	500	Mouse sk TD lo
1945	Mineral oil, petroleum distillates, solvent-refined (mild) heavy paraffinic	64741-88-4	0.2	0.6	1	500	Rat oral LD50
1946	Mineral oil, petroleum distillates, solvent refined light naphthenic	64741-97-5	40	125	500	500	Rat oral LD minimum.
1947	Mineral oil, white	8042-47-5	0.2	0.6	500	500	Used PNOS default
1948	Mineral oil; (Oil mist, mineral)	8012-95-1	5	10	10	500	Conc. limits
1949	Mirex; (Perchloropentacyclodecane)	2385-85-5	0.03	0.075	0.6	100	
1950	Mitomycin C	50-07-7	4	12.5	23	23	LOC, rat LD50
1951	Molecular sieve 13X	63231-69-6	7.5	25	150	500	Estimated rat oral LD50 from HHR.
1952	Molybdate orange	12656-85-8	5	15	75	500	
1953	Molybdenium	764-70-1	10	30	50	500	TLV-TWA, IDLH.

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The "Source of PACs" column will be enhanced in the near future to improve the clarity and completeness of its information.

Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1954	Molybdenum	7439-98-7	10	30	50	500	Conc. limits
1955	Molybdenum carbide	12011-97-1	11.3	33.8	56.3	500	
1956	Molybdenum dioxide	18868-43-4	6.67	6.67	6.67	500	Mo insol cmpd conc. Limits, mouse sc LD50
1957	Molybdenum disilicide	12136-78-6	15.9	47.6	79.3	500	Mo insol cmpd conc. Limits
1958	Molybdenum hexacarbonyl	13939-06-5	27.5	82.6	138	500	TLV-TWA for insoluble Mo compounds.
1959	Molybdenum pentachloride	10241-05-1	14.2	14.2	500	500	Mo soluble concentration limits, rat oral TD lo.
1960	Molybdenum trioxide	1313-27-5	7.5	7.5	7.5	500	Mo insol cmpd conc. limits
1961	Molybdenum(IV) sulfide	1317-33-5	16.7	50.1	83.4	500	Rat oral LD50 > 2 g/kg
1962	Molybdic acid	7782-91-4	8.44	8.44	8.44	500	Mo sol cmpds conc. limits
1963	Molybdic acid, ammonium salt; (Ammonium molybdate)	11098-84-3	11.7	11.7	500	500	Mo TLV-TWA, IDLH, as Mo.
1964	Molybdic acid, diammonium salt; (Ammonium molybdate)	13106-76-8	10.2	30.7	51.1	500	Mo TLV-TWA, IDLH, as Mo.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1965	Molybdic acid, disodium salt; (Disodium molybdate)	7631-95-0	10.7	10.7	10.7	500	Mo sol cmpds conc. limits
1966	Molybdic acid, hexaammonium salt; (Ammonium heptamolybdate)	12027-67-7	8.67	8.67	8.67	500	Mo sol cmpds conc. limits
1967	Molybdophosphoric acid, X-hydrate	12026-57-2	7.93	7.93	7.93	500	Mo soluble concentration limits.
1968	Molybdophosphoric acid; (Phosphomolybdic acid hydrate)	51429-74-4	8.07	8.07	8.07	500	Mo sol cmpds conc. limits
1969	Monobutyl phosphite	16456-56-7	6	20	150	500	Mo sol cmpds conc. limits
1970	Monochloroamine; (Chloramide)	10599-90-3	0.4	1.25	7.5	40	
1971	Monochloropentafluoroethane; (CFC-115)	76-15-3	6,000	15,000	30,000	2,000,000	
1972	Monocrotophos	6923-22-4	0.05	0.15	0.63	25	
1973	Monomethylamine; (Methylamine)	74-89-5	12.5	19	81.3	444	PEL-TWA, AEGL-1, AEGL-2, AEGL-3.
1974	Monomethylhydrazine; (Methyl hydrazine)	60-34-4	0.015	0.35	1.7	5.09	TLV-TWA, PEL-C, AEGL-2, AEGL-3.
1975	Monosodium titanate	60704-88-3	10	30	50	250	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1976	Montmorillonite	1318-93-0	30	30	30	30	Rat intratracheal TD lo, rat iv LD50.
1977	Morpholine	110-91-8	60	100	100	5,000	
1978	Morpholinepropanesulfonic acid, 4-	1132-61-2	1.25	4	25	125	Quail oral LD50 maximum.
1979	Morpholino)ethanesulfonic acid monohydrate, 2-(N-	4432-31-9	1.25	4	25	125	Quail oral LD50 minimum.
1980	Muscimol; (5-Aminomethyl-3-isoxazole)	2763-96-4	3.5	10	17	20	Rat oral LD50, human TD lo
1981	Mustard gas sulfoxide; (bis(2-chloroethyl)-sulfoxide)	5819-08-9	0.4	1.25	7.5	40	Mouse subcutaneous LDlo.
1982	Myoglobins	9008-45-1	10	30	50	250	PNOS default.
1983	Myristic acid, butyl ester; (Tetradecanoic acid, butyl ester)	110-36-1	35	100	600	3,500	Rat oral LD50
1984	Myristic acid, isopropyl ester; (Tetradecanoic acid, isopropyl; Isopropyl myristate)	110-27-0	200	500	500	500	
1985	Nabumetone; (Relafen; 4-(6-methoxy-2-naphthyl)-2-butanone)	42924-53-8	10	30	125	500	
1986	Nadic methyl anhydride	25134-21-8	0.75	2	15	75	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1987	Naphtha (coal tar)	8030-30-6	400	400	2,500	4,000	
1988	Naphtha (petroleum), heavy catalytic cracked	64741-54-4	15	40	300	500	Rat oral TD lo, rat LC lo min.
1989	Naphtha (petroleum), light straight-run	64741-46-4	400	1,250	2,000	4,000	Naphtha (Coal tar), 8030-30-6, PEL-TWA and IDLH.
1990	Naphtha, heavy aliphatic solvent	64742-96-7	10	30	50	250	PNOS default used.
1991	Naphtha, hydrotreated heavy; (Isopar L-rev 2)	64742-48-9	1,250	3,500	6,000	7,500	Exxon-TWA, rat oral LD50 from HHR.
1992	Naphthalenamine, 1-; (1-Naphthylamine)	134-32-7	0.6	1.5	12.5	350	
1993	Naphthalene	91-20-3	50	75	150	1,250	
1994	Naphthaleneacetamide, 1-	86-86-2	6	20	150	500	
1995	Naphthalenetrisulfonic acid sodium salt, 1,3,6-	19437-42-4	10	30	50	250	PNOS default.
1996	Naphthenic acid, lead salt	61790-14-5	0.0544	0.163	30	109	
1997	Naphthol, 1-	90-15-3	25	75	500	500	Rabbit TD lo, rat LD50.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
1998	Naphthol, 2-	135-19-3	0.0025	0.0075	0.05	500	Human TClo, rat oral LD50.
1999	Naphthol-8-sulfonic acid, sodium salt, 2-	832-85-9	2	6	40	200	PNOS default. Mouse oral LDlo.
2000	Naphthoquinone, 1,4-	130-15-4	0.075	0.25	1.5	75	
2001	Naphthylamine, beta-	91-59-8	1.5	5	35	300	
2002	Naphthylthiourea, alpha-; (ANTU)	86-88-4	0.3	0.9	10	100	
2003	Neatsfoot oil; (Fats and glyceridic oils)	8002-64-0	10	30	50	250	PNOS default used.
2004	Neodecanoic acid	26896-20-8	12.5	40	300	500	
2005	Neodymium	7440-00-8	0.0008	0.0025	0.02	0.1	Human intracerebral TD lo.
2006	Neodymium bromide	13536-80-6	10	30	50	250	
2007	Neodymium fluoride	13709-42-7	8.83	26.5	44.1	250	
2008	Neodymium hydroxide	16469-17-3	0.75	0.75	2	75	SAR

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2009	Neodymium nitrate	10045-95-1	7.5	25	150	500	
2010	Neodymium nitrate, pentahydrate	14517-29-4	10	30	50	250	PNOS default.
2011	Neodymium nitrite	z-0033	0.04	0.1	0.75	75	SAR
2012	Neodymium(III) chloride	10024-93-8	0.6	1.5	12.5	60	
2013	Neodymium(III) oxide	1313-97-9	10	30	50	500	Rat oral LD50
2014	Neon	7440-01-9	50,000	50,000	150,000	300,000	Simple asphyxiant
2015	Nickel	7440-02-0	1	4.5	10	10	Nickel concentration limits.
2016	Nickel acetate tetrahydrate	6018-89-9	4.24	4.24	4.24	42.4	Ni PEL-TWA, IDLH
2017	Nickel aluminide	12003-78-0	1.36	1.36	1.36	13.6	Ni compound concentration limits.
2018	Nickel carbonate hydroxide; (Basic nickel carbonate tetrahydrate)	39430-27-8	2.14	2.14	4	21.4	Nickel concentration limits.
2019	Nickel carbonate hydroxide; (Basic nickel(II) carbonate)	12607-70-4	1.73	1.73	1.73	17.3	Nickel concentration limits.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2020	Nickel carbonyl	13463-39-3	0.02	0.251	0.251	1.12	PEL-TWA, AEGL-2, AEGL-2, AEGL-3.
2021	Nickel chloride; (Nickelous chloride)	7718-54-9	2.21	2.21	2.21	22.1	Nickel concentration limits.
2022	Nickel cyanide	557-19-7	0.377	1.13	9.44	18.9	Nickel concentration limits.
2023	Nickel fluoride	13940-83-5	2.88	2.88	3	28.8	Ni insoluble concentration limits.
2024	Nickel formate	3349-06-2	3.15	3.15	6	31.5	Nickel concentration limits.
2025	Nickel oxalate (liquids)	6018-94-6a	2.5	2.5	2.5	25	Nickel concentration limits.
2026	Nickel oxalate (solids)	6018-94-6b	2.5	2.5	2.5	25	Nickel concentration limits.
2027	Nickel oxide; (Nickel(II) oxide)	1313-99-1	1.27	1.27	12.7	12.7	Nickel concentration limits.
2028	Nickel perchlorate	13637-71-3	6.23	6.23	6.23	62.3	Ni insoluble PEL-TWA, IDLH.
2029	Nickel sulfamate; (Nickel(II) sulfamate)	13770-89-3	4.27	4.27	4.27	200	Nickel concentration limits.
2030	Nickel sulfate hexahydrate; (Nickel(II) sulfate hexahydrate)	10101-97-0	4.48	4.48	10	44.8	Nickel concentration limits.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2031	Nickel sulfate; (Nickel(II) sulfate)	7786-81-4	2.64	2.64	2.64	26.4	Nickel concentration limits.
2032	Nickel(2+) stearate	2223-95-2	10.7	32	53.3	107	Ni compound concentration limits.
2033	Nickel(II) bromide	13462-88-9	3.72	3.72	3.72	37.2	Nickel concentration limits.
2034	Nickel(II) carbonate (1:1)	3333-67-3	2.02	2.02	2.02	20.2	Ni concentration limits.
2035	Nickel(II) chloride hexahydrate	7791-20-0	4.05	4.05	40.5	40.5	Nickel concentration limits.
2036	Nickel(II) hydroxide; (Nickelous hydroxide)	12054-48-7	1.58	1.58	1.58	15.8	Nickel concentration limits.
2037	Nickel(II) nitrate hexahydrate	13478-00-7	4.96	4.96	49.6	49.6	Nickel concentration limits.
2038	Nickel(II) nitrate; (Nickelous nitrate)	13138-45-9	3.11	3.11	12.5	31.1	Nickel concentration limits.
2039	Nickel(II) nitrite	17861-62-0	1	1	1	10	Nickel concentration limits.
2040	Nickel(II) phosphate	10381-36-9	1	1	1	10	Nickel concentration limits.
2041	Nickel(III) hydroxide; (Nickelic hydroxide)	12125-56-3	1.87	1.87	1.87	18.7	Nickel concentration limits.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2042	Nicotinamide	98-92-0	6	20	150	500	Mouse ip TD lo, rat oral LD50.
2043	Nicotine salts; (dl-beta-Nicotine; DL-Nicotine)	22083-74-5	1.29	3.5	3.5	75	
2044	Nicotine Sulfate	65-30-5	4	9	9	9	
2045	Nicotine; (Pyridine, (S)-3-(1-methyl-2-pyrrolidinyl)-)	54-11-5	0.5	1.5	3.5	5	
2046	Nicotinic acid; (Niacin)	59-67-6	0.75	2	15	500	Human oral TD lo, rat oral LD50.
2047	Niobium	7440-03-1	40	125	500	500	
2048	Niobium chloride	10026-12-7	6	15	125	500	
2049	Niobium pentoxide; (Niobium(V) oxide)	1313-96-8	10	30	200	500	Rat it TD lo, mouse oral LD50.
2050	Niobium(IV) carbide	12069-94-2	11.3	33.9	56.5	250	PNOS default used.
2051	Nitrapyrin; (2-Chloro-6-(trichloromethyl)pyridine)	1929-82-4	15	20	50	400	
2052	Nitrate(s)	14797-55-8	10	30	50	250	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2053	Nitric acid WFNA; (ERPGs for "white fuming")	7697-37-2	1.37	1.37	61.8	237	AEGL-1, AEGL-1, AEGL-2, AEGL-3.
2054	Nitric acid, butyl ester; (Butyl nitrate)	928-45-0	10	30	50	250	PNOS default.
2055	Nitric acid, ethyl ester; (Ethyl nitrate)	625-58-1	1.25	3.5	25	125	Cat ip LD50.
2056	Nitric acid, pentyl ester; (Amyl nitrate)	1002-16-0	125	400	2,500	12,500	Mouse 420 min LC lo.
2057	Nitric oxide	10102-43-9	30	30	30	125	PEL-TWA, LOC, LOC, IDLH
2058	Nitrilotriacetic acid, disodium salt; (Disodium nitrilotriacetate)	15467-20-6	6	15	125	500	Rat oral LD50.
2059	Nitrilotriacetic acid, trisodium salt, monohydrate	18662-53-8	0.06	0.2	1.25	500	Rat oral TD lo, rat oral LD50.
2060	Nitrilotriacetic acid; (Aminotriacetic acid)	139-13-9	35	100	500	500	
2061	Nitroaniline, 2-; (o-Nitroaniline)	88-74-4	6	20	125	500	Rat 4 hr LC50
2062	Nitroaniline, 3-; (m-Nitroaniline)	99-09-2	0.6	1.5	12.5	200	
2063	Nitroaniline, p-	100-01-6	6	9	300	300	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2064	Nitrobenzene	98-95-3	5	15	100	1,000	
2065	Nitrobenzenesulfonic acid, sodium salt, 3-	127-68-4	40	125	500	500	Rat oral LD50.
2066	Nitrobiphenyl, 4-; (p-Nitrobiphenyl)	92-93-3	0.25	0.75	5	500	
2067	Nitrochlorobenzene, m-; (1-Chloro-3-nitrobenzene; m-chloronitrobenzene)	121-73-3	0.06	0.2	1.25	150	Rat TClo, rat oral LD50.
2068	Nitrocyclohexane	1122-60-7	0.3	0.75	1.5	60	
2069	Nitrocyclohexene, 1-; (1-Nitrocyclohex-1-ene)	2562-37-0	1.5	5	40	200	SAR
2070	Nitrodiphenylamine, 2-	119-75-5	30	100	500	500	
2071	Nitroethane	79-24-3	300	300	600	3,000	
2072	Nitrogen	7727-37-9	75,000	75,000	250,000	400,000	Simple asphyxiant
2073	Nitrogen dioxide	10102-44-0	0.94	0.94	22.6	37.6	AEGL-1, AEGL-1, AEGL-2, AEGL-3.
2074	Nitrogen mustard hydrochloride	55-86-7	0.75	2.5	4	4	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2075	Nitrogen mustard; (Bis(b-chloroethyl)methylamine)	51-75-2	1.25	4	29	29	
2076	Nitrogen tetroxide	10544-72-6	10	15	15	75	
2077	Nitrogen trifluoride	7783-54-2	30	150	1,160	2,320	PEL-TWA, PEL-TWA*3, ERPG-2, ERPG-3.
2078	Nitrogen trioxide; (Dinitrogen trioxide)	10544-73-7	75	150	300	1,500	
2079	Nitroglycerin	55-63-0	0.1	0.1	2	75	
2080	Nitromethane	75-52-5	50	150	250	1,500	TLV-TWA, IDLH.
2081	Nitromethane d3; (Trideuteronitromethane)	13031-32-8	50	150	250	2,000	TLV-TWA, IDLH of Nitromethane, 75-52-5.
2082	Nitro-m-xylene, 2-; (1,3-Dimethyl-2-nitrobenzene)	81-20-9	10	30	200	500	Rat oral LD50.
2083	Nitronium Tetrafluoroborate	13826-86-3	4.37	13.1	21.8	150	Fluoride PEL-TWA, mouse iv LD50.
2084	Nitrophenol (mixed isomers)	25154-55-6	0.75	2.5	15	75	4-Nitrophenol PACs used.
2085	Nitrophenol, 2-; (o-Nitrophenol)	88-75-5	1.25	4	30	150	Rat oral LD50

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2086	Nitrophenol, 3-; (m-Nitrophenol)	554-84-7	1.25	4	30	150	Rat oral LD50
2087	Nitrophenol, 4-; (p-Nitrophenol)	100-02-7	0.75	2.5	15	75	Rat oral LD50
2088	Nitropropane, 1-	108-03-2	75	75	75	3,500	
2089	Nitropropane, 2-	79-46-9	75	100	150	350	
2090	Nitropyrene, 1-	5522-43-0	0.1	0.3	2	10	
2091	Nitropyridine-n-oxide, 4-; (Pyridine, 4-nitro-1-oxide)	1124-33-0	15	50	80	80	
2092	Nitrosodimethylamine	62-75-9	3.5	10	19	19	
2093	Nitrosodiphenylamine, p-	156-10-5	0.1	0.3	2	150	
2094	Nitrosodipropylamine; (DPNA)	621-64-7	0.06	0.2	1.25	200	
2095	Nitrosomorpholine	59-89-2	12.5	30	30	30	
2096	Nitroso-n-methylurea, n-	684-93-5	0.015	0.05	0.35	50	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2097	Nitrosophenol, p-	104-91-6	2	6	40	200	
2098	Nitrosotoluene, 2-: (o-Nitrosotoluene)	611-23-4	7.5	25	150	500	Rat oral TD lo.
2099	Nitrosyl chloride	2696-92-6	0.06	0.2	1.25	6	
2100	Nitrosylsulfuric acid	7782-78-7	1.5	5	35	150	Rat LD50 based on HHR = 3.
2101	Nitrotoluene, m-	99-08-1	25	35	50	1,000	
2102	Nitrotoluene, o-	88-72-2	25	35	50	350	
2103	Nitrotoluene, p-	99-99-0	25	35	50	1,000	
2104	Nitrous acid	7782-77-6	1	3	15	200	Used HNO3 limits
2105	Nitrous oxide	10024-97-2	75	250	15,000	35,000	
2106	Nonacosane	630-03-5	10	30	50	250	
2107	Nonanal	124-19-6	2	6	40	500	

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The "Source of PACs" column will be enhanced in the near future to improve the clarity and completeness of its information.

Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2108	Nonane (Shellsol 140)	111-84-2	1,000	3,000	5,000	7,500	
2109	Nonanenitrile; (1-Octyl cyanide)	2243-27-8	150	150	150	750	Used PEL-TWA for cyanides
2110	Nonanoic acid	112-05-0	25	75	500	500	Rat oral LDlo.
2111	Nonanone, 2-	821-55-6	6	15	125	500	Rat LClo > 3980 mg/m ³
2112	Nonene, 1-	124-11-8	2.5	7.5	50	250	Estimated rat LC50.
2113	Nonoxynol-4	7311-27-5	10	30	50	250	
2114	Nonyl alcohol	143-08-8	25	75	500	500	Rat 240 min TClo, mouse 120 min LC50.
2115	Nonyl phenol (mixed isomers)	25154-52-3	6	20	125	500	
2116	Nonyl phenol, 4- (branched)	84852-15-3	5	15	100	500	
2117	Nonyl phenol, p-	104-40-5	6	20	125	500	
2118	Nonylphenol ethoxylate	127087-87-0	10	30	200	500	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2119	Nonylphenoxyethoxyethanol	68412-54-4	10	30	50	250	
2120	Norbormide	991-42-4	0.75	2	3.8	3.8	
2121	Norchlorofluoroepibatidine	z-0034	0.	0.0001	0.0008	0.0013	
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	
2123	Octachlorodibenzofuran, 1,2,3,4,6,7,8,9-	39001-02-0	0.003	0.0075	0.06	10	
2124	Octachloronaphthalene	2234-13-1	0.1	0.3	0.5	1	Concentration limits.
2125	Octacosane	630-02-4	350	350	1,500	7,500	NIOSH concentration limits for alkanes.
2126	Octadecane, N-	593-45-3	350	350	1,500	7,500	NIOSH concentration limits for alkanes.
2127	Octadecanoic acid, n-; (Stearic acid)	57-11-4	60	150	500	500	Rat oral TD lo, rat oral LD50.
2128	Octadecanol, 1-	112-92-5	25	75	600	7,500	
2129	Octadecenoic acid, 9-; (Oleic acid)	112-80-1	0.015	0.05	0.4	500	Rat oral LD50

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2130	Octadecyl methacrylate	32360-05-7	10	30	50	250	PNOS default.
2131	Octadecyltrichlorosilane	112-04-9	7.5	25	150	500	Rat Id50 based on HHR = 2.
2132	Octafluorocyclobutane; (Cyclooctafluorobutane; Freon C-318)	115-25-3	200,000	600,000	2,500,000	2,500,000	Mouse TClo, mouse 120 min LC lo.
2133	Octamethylcyclotetrasiloxane	556-67-2	150	400	3,000	4,000	Rat 240M LC50, rat TClo
2134	Octamethyldiphosphoramidate; (Octamethylpyrophosphoramidate)	152-16-9	0.15	0.5	0.8	3.5	
2135	Octanal, 1-; (Octanal; Octanaldehyde)	124-13-0	20	60	500	500	
2136	Octanamine, 1-	111-86-4	0.4	1.25	7.5	40	Rat oral LDlo
2137	Octane, n-	111-65-9	1,250	1,250	1,500	4,000	
2138	Octanedione, 2,5-	3214-41-3	20	60	500	500	Estimated LC50.
2139	Octanenitrile	124-12-9	7.5	20	150	750	
2140	Octanethiol, 1-	111-88-6	0.15	0.4	3	750	REL-C, rat oral LD50

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2141	Octanoic acid; (Caprylic acid)	124-07-2	40	125	500	500	Rat oral LD50
2142	Octanol, 2-	123-96-6	12.5	35	250	350	Rat 120 min TClo, human oral LC lo.
2143	Octanone, 2-	111-13-7	60	200	200	500	
2144	Octaphenylcyclotetrasiloxane	546-56-5	20	60	400	500	Rat oral LD50 minimum.
2145	Octene, 1-	111-66-0	183	183	3,670	9,170	ERPG-1, ERPGs-1, ERPG-2, ERPG-3.
2146	Octyl alcohol; (n-octanol)	111-87-5	50	50	50	350	WEEL-TWA, human TClo, human LDlo.
2147	Octyl(phenyl)-N,N-diisobutylcarbamoylmethylphosphine oxide	83242-95-9	10	30	50	250	
2148	Oil gas; (Oil fog)	z-0035	200	750	1,500	2,000	
2149	Oleum; (fuming sulfuric acid)	8014-95-7	0.2	0.2	8.7	160	AEGL-1, AEGL-1, AEGL-2, AEGL-3.
2150	Organorhodium complex	z-0036	0.292	8.75	15	500	
2151	Orthoformic acid, trimethyl ester; (Trimethyl orthoformate)	149-73-5	0.4	1.25	7.5	40	Rat LC50 assumed.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2152	Osmium	7440-04-2	0.25	0.75	6	30	Dog intravenous LDlo.
2153	Osmium tetroxide	20816-12-0	0.025	0.025	0.1	12.5	
2154	Otto Fuel (mainly Propylene glycol dinitrate 6423-43-4)	106602-80-6	0.4	1.18	6.95	90.3	AEGL-1/3, AEGL-1, AEGL-2, AEGL-3
2155	Ouabain	630-60-4	1.5	5	8.3	12.5	
2156	Oxalic acid, anhydrous; (Ethanedioic acid)	144-62-7	1	2	500	500	
2157	Oxalic acid, dihydrate	6153-56-6	1	2	500	500	
2158	Oxalyl chlorine	79-37-8	10	30	200	1,000	Rat 60 min LC50.
2159	Oxamide	471-46-5	1.5	5	40	200	
2160	Oxamyl	23135-22-0	0.35	1	1.7	15	
2161	Oxathiane, 1,4-	15980-15-1	15	50	350	1,500	
2162	Oxirane, ethenyl-; (3,4-Epoxy-1-butene)	930-22-3	10	30	75	75	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2163	Oxone, monopersulfate compound	37222-66-5	10	30	50	250	PNOS default.
2164	Oxybis(n,n-dimethylethanamine), 2,2'-; (Bis(2-dimethylaminoethyl) ether; DMAEE)	3033-62-3	0.3	1	100	100	TLV-TWA, TLV-STEL, rat TClo, rat 360 min LC50.
2165	Oxydiacetic acid; (Oxodiacetic acid)	110-99-6	2	6	40	200	
2166	Oxydiethylenedicarbonic acid, diallyl ester	142-22-3	3	10	60	125	Rabbit skin 6-18 day preg. TD lo, rat LC50.
2167	Oxydiphenoxarsine, 10,10'-; (Phenoxyarsine oxide)	58-36-6	1.68	2	14	14	PEL-TWA, LOC, guinea pig LC lo.
2168	Oxydisulfoton	2497-07-6	0.6	2	3.5	3.5	
2169	Oxygen (liquid)	7782-44-7					PACs withdrawn.
2170	Oxygen difluoride; (Fluorine monoxide)	7783-41-7	0.1	0.1	0.1	1	
2171	Ozone	10028-15-6	0.2	0.2	2	10	
2172	Palladium	7440-05-3	10	30	50	200	
2173	Palladium chloride	7647-10-1	0.15	0.4	3	500	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2174	Palladium hydroxide	12135-22-7	0.125	0.3	2.5	75	SAR
2175	Paraffin waxes, petroleum, clay-treated, reaction products with petroleum white mineral oil, stearic acid and triethanolamine	71808-29-2	10	30	50	250	Used PNOS default
2176	Paraffin, n-	8002-74-2	2	15	15	500	
2177	Paraffins, petroleum, normal C5-C20	64771-72-8	2,000	2,000	2,000	2,000	
2178	Paraformaldehyde	30525-89-4	4	12.5	75	100	
2179	Paraldehyde	123-63-7	10	30	50	500	
2180	Paraquat	4685-14-7	0.15	0.15	0.15	150	
2181	Paraquat dichloride	1910-42-5	0.1	0.3	1	1	
2182	Paraquat methosulfate; (Paraquat dimethyl sulphate)	2074-50-2	0.75	2	15	40	
2183	Parathion	56-38-2	0.1	0.3	2	10	
2184	Paris Green; (Cupric acetoarsenite)	12002-03-8	1.13	3.38	22	22	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2185	Particulate material (PNOS)	z-0037	10	30	50	250	Used PNOS default
2186	PBX (mixture of HMX and nitrocellulose)	z-0038	0.24	0.6	5	500	Assumed 25% HMX & 75% CTN mixture
2187	Pentaborane	19624-22-7	0.0125	0.04	0.75	2.5	PEL-TWA, TLV-STEL, LOC. IDLH
2188	Pentachlorobenzene	608-93-5	10	30	150	400	
2189	Pentachlorobenzo-p-dioxin, 1,2,3,7,8-	40321-76-4	0.0008	0.0025	0.015	0.075	
2190	Pentachlorodibenzofuran, 1,2,3,7,8-	57117-41-6	0.0025	0.0075	0.06	0.3	
2191	Pentachlorodibenzofuran, 2,3,4,7,8-	57117-31-4	0.	0.0001	0.0006	0.4	
2192	Pentachloroethane	76-01-7	10	30	500	500	
2193	Pentachloronitrobenzene	82-68-8	0.5	1.5	300	500	
2194	Pentachlorophenol	87-86-5	0.5	2.5	2.5	2.5	
2195	Pentadecafluorooctanoic acid	335-67-1	4	12.5	75	75	Rat ip TD lo and LD50.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2196	Pentadecane	629-62-9	30	75	600	3,000	Mouse intravenous LD50.
2197	Pentadecanoic acid	1002-84-2	0.4	1.25	7.5	40	
2198	Pentadecylamine	2570-26-5	0.1	0.3	2	100	
2199	Pentaerythritol	115-77-5	15	30	50	500	
2200	Pentaerythritol tetra(3-mercaptopropionate), reaction product	95823-35-1	10	30	50	250	PNOS default used.
2201	Pentaerythritol tetranitrate	78-11-5	0.015	0.05	0.35	500	
2202	Pentafluorobenzoic acid	602-94-8	0.75	2	15	75	Mouse intraperitoneal LD50.
2203	Pentafluoropropane, 1,1,1,3,3-	460-73-1	1,500	5,000	300,000	300,000	WEEL-TWA, rat TClo, mouse 120 min LC lo.
2204	Pentane, n-	109-66-0	1,500	1,500	1,500	4,000	
2205	Pentanediol, 1,5-	111-29-5	7.5	25	150	500	Rat oral LD50
2206	Pentanedione, 2,4-; (Acetylacetone)	123-54-6	60	200	400	400	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2207	Pentanenitrile	110-59-8	5	15	75	75	
2208	Pentanol, 2-; (sec-amyl alcohol; Methyl propyl carbinol; Isoamyl alcohol, secondary)	6032-29-7	350	400	400	1,500	Concentration limits for isoamyl alcohol, secondary.
2209	Pentanone, 2-	107-87-9	600	750	750	5,000	
2210	Pentanone, 3-; (Diethyl ketone)	96-22-0	600	1,000	1,000	3,000	TLV-TWA, TWA-STEL, rat LClo
2211	Pentatriacontane	630-07-9	10	30	50	250	
2212	Pentene, 1-	109-67-1	750	2,500	15,000	200,000	Human TClo. Rat 240 min LC50.
2213	Pentobarbital sodium; (Nembutal sodium)	57-33-0	0.15	0.5	3.5	50	
2214	Pentyl alcohol, tert-; (tert-Amyl alcohol)	75-85-4	200	400	400	400	Human LDlo, rat TClo
2215	Peptone; (Hydrolized protein, Tryptones)	73049-73-7	10	30	50	250	
2216	Peracetic acid	79-21-0	0.15	0.528	1.55	14.9	AEGL-1/3, AEGL-1, AEGL-2, AEGL-3.
2217	Perboric acid, sodium salt	7632-04-4	0.5	1.5	10	500	Rat TClo, mouse LD50.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2218	Perchloric acid	7601-90-3	4	12.5	100	500	
2219	Perchloric acid, zinc salt, hexahydrate	10025-64-6	0.6	1.5	12.5	60	Mouse ip LDlo.
2220	Perchloroethylene; (Tetrachloroethylene)	127-18-4	150	237	1,560	8,130	TLV-TWA, AEGLs
2221	Perchloromethyl mercaptan	594-42-3	0.0988	0.0988	2.28	6.84	AEGL-1, AEGL-1, AEGL-2, AEGL-3.
2222	Perchloryl fluoride; (Chlorine oxyfluoride)	7616-94-6	12.5	25	75	400	PEL-TWA, TLV-STEL, IDLH/5, IDLH.
2223	Percoll	65455-52-9	10	30	50	250	PNOS default
2224	Perfluoro compounds, C5-C18; (Fluorinert electronic liquid perfluoro compounds)	86508-42-1	2,500	7,500	60,000	350,000	Rat TClo, rat 360 min LC lo minimum.
2225	Perfluoroalkylether polymer; (Capped homopolymers of hexafluoropropylene epox, Fluorine End-)	60164-51-4	75	250	500	500	Rat oral LD50 based on HHR = 1.
2226	Perfluoroisobutylene; (Octafluoro-sec-butene)	382-21-8	0.075	0.075	0.82	2.5	TLV-C, TLV-C, ERPG-2, ERPG-3.
2227	Perfluoropolyether; (1,1,2,3,3,3-hexafluoro-1-propene, oxidized; Vacuum pump oil)	69991-67-9	10	30	200	500	Estimated LC50.
2228	Periodic acid	10450-60-9	0.18	0.18	0.5	5	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2229	Periodic acid, sodium salt	7790-28-5	0.25	0.75	5	25	Mouse ip LD50.
2230	Perlite; (Fused NaAl silicate, < 1% quartz)	93763-70-3	10	30	50	500	
2231	Permafluor E+	z-0039	100	150	500	500	
2232	Permafluor-V (85+% toluene)	z-0040	150	500	1,000	1,500	
2233	Peroxydicarbonic acid, disodium salt	3313-92-6	7.5	25	150	500	
2234	Petrolatum	8009-03-8	15	50	350	500	Rabbit skin TD lo, mouse ip LD50 maximum.
2235	Petroleum 50 thinner; (Paint thinner)	z-0041	40	125	750	4,000	
2236	Petroleum asphalt	8052-42-4b	1.25	4	25	125	Rat 24W im TD lo
2237	Petroleum coke, calcined	64743-05-1	10	30	50	500	PNOS default, IDLH.
2238	Petroleum distillate	8002-05-9a	350	350	500	500	PEL-TWA, REL-C, IDLH.
2239	Petroleum distillates, clay-treated light naphthenic	64742-45-6	20	60	400	500	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2240	Petroleum distillates, low boiling	68477-31-6	350	1,000	1,500	4,000	Concentration limits.
2241	Petroleum mineral oil; (Extracts, petroleum, middle distillate solvent)	64742-06-9	10	30	500	500	
2242	Petroleum spirits; (VM & P Naphtha)	8032-32-4	1,250	1,250	1,500	1,500	
2243	Petroleum spirits; (Mineral spirits; Soltrol)	64475-85-0	75	250	1,500	7,500	
2244	Petroleum; (Petroleum crude oil)	8002-05-9b	500	500	500	500	PEL-TWA, REL-C, IDLH.
2245	Phenacetin; (p-acetophenetidide)	62-44-2	10	30	50	60	
2246	Phenaglycodol; (Ultran; 2-p-chlorophenyl-3-methyl-2,3-butanediol)	79-93-6	10	30	50	350	
2247	Phenanthrene	85-01-8	0.4	1	7.5	300	
2248	Phenanthroline ferrous sulfate, 1,10-	14634-91-4	10	30	50	250	
2249	Phenanthroline, 1,10-	66-71-7	0.1	0.3	2	30	Mouse ip 8D preg TD lo, mouse ip LD50.
2250	Phenol	108-95-2	20	57.7	88.5	769	PEL-TWA, AEGL-1, AEGL-2, ERPG-3.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2251	Phenol red, sodium salt	34487-61-1	7.5	25	150	500	Rat LD50 estimated from HHR = 2.
2252	Phenol, polymer with formaldehyde, oxiranylmethyl ether	28064-14-4	15	50	350	500	Rat oral LD50 minimum ex MSDS.
2253	Phenolphthalein	77-09-8	0.75	2.5	15	400	
2254	Phenoxyethanol, 2-; (Phenyl cellosolve)	122-99-6	100	100	100	500	MAK-TWA, rat TClo, rat LD50.
2255	Phenyl Chloroformate; (Carbonochloridic acid phenyl ester)	1885-14-9	0.3	0.75	6	30	Rat 240 min LC lo.
2256	Phenyl dichloroarsine; (Dichlorophenylarsine)	696-28-6	1.49	1.49	4	125	
2257	Phenyl ether; (Diphenyl ether)	101-84-8	6	12.5	125	600	
2258	Phenyl isocyanate.	103-71-9	0.3	0.75	2	2	Rat TClo, rat LC50.
2259	Phenyl sepharose	69106-59-8	10	30	50	250	PNOS default used.
2260	Phenyl-1,2-propanedione, 1-	579-07-7	2.5	7.5	50	250	
2261	Phenyl-2-oxzaoline, 2-	7127-19-7	6	15	30	150	TLV-TWA based on other phenyl compounds.

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The "Source of PACs" column will be enhanced in the near future to improve the clarity and completeness of its information.

Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2262	Phenylacetylene; (Ethylnylbenzene)	536-74-3	40	100	500	500	Rat oral LD50.
2263	Phenylazo)aniline, p-(	60-09-3	0.6	2	12.5	75	
2264	Phenylboric Acid; (Benzeneboronic acid)	98-80-6	3	7.5	60	300	
2265	Phenylcyclohexane; (Cyclohexylbenzene)	827-52-1	40	125	500	500	Rat oral LDlo.
2266	Phenylene diisocyanate, 1,4-	104-49-4	3.5	10	35	35	
2267	Phenylenediamine dihydrochloride, 1,2-	615-28-1	10	30	125	125	
2268	Phenylenediamine dihydrochloride, 1,4-	624-18-0	0.6	1.5	12.5	60	
2269	Phenylenediamine, 1,2-; (o-Phenylenediamine)	95-54-5	0.1	0.3	200	500	
2270	Phenylenediamine, 1,3-; (m-Phenylenediamine)	108-45-2	0.1	0.3	10	125	
2271	Phenylenediamine, p-	106-50-3	0.1	0.6	4	25	
2272	Phenylhydrazine	100-63-0	0.4	1.25	2	60	Conc. limits

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2273	Phenylhydrazine hydrochloride	59-88-1	50	150	250	250	
2274	Phenylmagnesium bromide	100-58-3	1.5	5	35	150	Estimated rat oral LD50 based on HHR.
2275	Phenylmercury acetate; (Acetoxyphenylmercury)	62-38-4	0.1	0.1	10	10	
2276	Phenylphenol, 2-	90-43-7	25	75	500	500	
2277	Phenylphosphine	638-21-1	0.2	0.2	0.2	75	
2278	Phenylpropanol, 2-; (Dimethylphenylmethanol)	617-94-7	5	15	100	500	
2279	Phenylpropanolamine hydrochloride; (Propadrine hydrochloride)	154-41-6	0.06	0.15	1.25	500	Human oral TD lo, rat oral LD50.
2280	Phenylsilatrane	2097-19-0	0.2	0.6	1	1	
2281	Phenylthiourea; (1-phenyl-2-thiourea)	103-85-5	3	3	3	3	
2282	Phenyltriethoxysilane	780-69-8	10	35	250	500	Rat oral LD50
2283	Phenyltrimethoxysilane	2996-92-1	1.5	4	30	150	Mouse iv LD50

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2284	Phenylxylylethane; (PXE)	6196-95-8	10	30	50	250	
2285	Phloroglucinol dihydrate	6099-90-7	4	12.5	75	400	Mouse ip LDlo minimum.
2286	Phorate	298-02-2	0.05	0.1	0.6	0.6	
2287	Phosacetim	4104-14-7	0.75	2	3.7	3.7	
2288	Phosfolan	947-02-4	1.5	5	9	9	
2289	Phosgene	75-44-5	0.4	0.4	1.21	3.03	PEL-TWA, PEL-TWA, AEGL-2, AEGL-3
2290	Phosmet	732-11-6	0.025	0.075	0.54	40	
2291	Phosphamidon; (Famfos)	13171-21-6	0.06	0.15	0.3	60	
2292	Phosphine	7803-51-2	0.4	1.25	2.78	5	PEL-TWA, TLV-STEL, AEGL-2, AEGL-3.
2293	Phosphomolybdic acid	11104-88-4	16.7	50	83.3	400	Mo TLV-TWA concentration limit.
2294	Phosphonic acid	13598-36-2	2	6	50	500	Rat oral TD lo, rat oral LD50.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2295	Phosphonic acid, dioctadecyl ester	19047-85-9	0.02	0.06	0.4	2	SAR
2296	Phosphonic acid, tridodecyl ester	3076-63-9	12.5	40	250	500	Rat oral LDlo
2297	Phosphoric acid	7664-38-2	1	3	500	500	
2298	Phosphoric acid dimethyl-p-(methylthio)phenyl ester	3254-63-5	1.25	4	7	7	
2299	Phosphorous acid, o-; (Phosphonic acid)	10294-56-1	1	3	200	500	Phosphoric acid (7664-38-2) concentration limits used.
2300	Phosphorous pentafluoride	7647-19-0	3	7.5	60	300	
2301	Phosphorous trifluoride	7783-55-3	4	10	75	400	
2302	Phosphorus (red)	7723-14-0	0.04	0.125	0.75	4	Rat oral TD lo, human LDlo.
2303	Phosphorus (yellow)	12185-10-3	0.1	0.4	3	5	PEL-TWA, LOC, IDLH.
2304	Phosphorus oxychloride	10025-87-3	0.6	3	3	5.33	TLV-TWA, REL-STEL, LOC, AEGL3.
2305	Phosphorus pentachloride	10026-13-8	1	2	12.5	70	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2306	Phosphorus pentasulfide	1314-80-3	1	3	50	250	
2307	Phosphorus pentoxide	1314-56-3	1	1	10	50	MAK-TWA, ERPG-1, ERPG-2, ERPG-3.
2308	Phosphorus trichloride	7719-12-2	1.91	1.91	11.2	31.4	AEGL-1, AEGL-1 , AEGL-2, AEGL-3 .
2309	Phosphorus trioxide	1314-24-5	0.4	1.25	7.5	40	Estimated rat 240 min LC50
2310	Phthalic acid	88-99-3	0.02	0.06	0.5	500	
2311	Phthalic anhydride	85-44-9	12	12	40	60	
2312	Phthaloyl dichloride; (Phthaloyl chloride)	88-95-9	0.75	2.5	15	75	Rat 240 min LC50 based on HHR = 3
2313	Physostigmine	57-47-6	0.75	2.5	4.5	4.5	
2314	Physostigmine salicylate(1:1)	57-64-7	0.5	1.5	2.5	2.5	
2315	Picolinic acid; (2-Pyridinecarboxylic acid)	98-98-6	10	35	150	150	Mouse ip TD lo and LD50.
2316	Picric acid	88-89-1	0.1	0.3	15	75	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2317	Picrotoxin	124-87-8	3	7.5	15	15	
2318	Pigment green 36	14302-13-7	15	50	350	500	
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	
2320	Pigment yellow 14	5468-75-7	20	60	400	500	Rat LD 50 minimum.
2321	Pigment yellow 36; (Zinc chromate)	13530-65-9	0.0176	0.106	15	52.9	Cr VI concentration limits.
2322	Pinacolone; (3,3-Dimethyl-2-butanone)	75-97-8	6	20	750	4,000	Mouse 240 min LC50.
2323	Pinacolyl alcohol; ((tert-Butyl methyl carbinol)	464-07-3	1,000	3,000	3,500	3,500	
2324	Piperazine	110-85-0	2	6	40	500	
2325	Piperidine	110-89-4	3.5	23	115	383	WEEL-TWA, AEGL-1, AEGL-2, AEGL-3.
2326	Pirimifos-ethyl	23505-41-1	5	15	25	60	
2327	Pivalic anhydride; (Trimethylacetic anhydride)	1538-75-6	10	30	50	250	PNOS default.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2328	Platinum	7440-06-4	1	3	4	4	
2329	Platinum cyanide	592-06-3	0.0025	0.0076	0.0127	5.07	
2330	Poly alpha olefin; (Synthetic hydrocarbon mixture, PAO)	68649-12-7	5	10	50	250	
2331	Poly(1-(2-oxo-1-pyrrolidiny)ethylene)iodine complex; (Iodine solutions)	25655-41-8	12.5	25	25	125	Component mixture concentration limits.
2332	Poly(1-vinyl-2-pyrrolidinone) homopolymer; (Polyvinylpyrrolidone; Plasdone)	9003-39-8	100	300	500	500	Rat iv TD lo, mouse ip LD50
2333	Poly(acrylamide-co-diallyl	26590-05-6	10	30	50	250	PNOS default used.
2334	Poly(dimethylsiloxane), ethoxylated, dihydroxy terminated; (Silicon oil polymer)	68037-63-8	75	250	500	500	Rat LD50 based on HHR.
2335	Poly(dimethylsiloxane), hydride terminated	70900-21-9	10	30	50	250	PNOS default used.
2336	Poly(dimethylsiloxane),vi	68083-19-2	60	200	500	500	Rat oral LD50 minimum.
2337	Poly(ethylene glycol methyl ether)	9004-74-4	75	250	500	500	Rat oral LD50.
2338	Poly(ethylene glycol)diacrylate	26570-48-9	1.5	5	35	150	Rat oral LD50 estimated from HHR = 3.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2339	Poly(melamine-co-formaldehyde), methylated	68002-20-0	60	150	500	500	Rat oral LD50.
2340	Poly(oxyethylene)(2) stearyl ether	9005-00-9	7.5	20	150	500	Rat oral LD50
2341	Poly(Styrene-co-divinylbenzene); (Dowex Optipore V-502)	69011-14-9	10	30	50	250	PNOS default used.
2342	Polyamide 6; (Capron; Poly(iminocarbonylpentamethylene))	25038-54-4	10	30	200	500	
2343	Polybutyl acrylate	9003-49-0	10	30	50	250	
2344	Polychlorinated biphenyl (Aroclor 1016); (Chlorodiphenyl (41% Cl))	12674-11-2	0.2	0.6	1	5	
2345	Polychlorinated biphenyl (Aroclor 1016/1242); (Chlorodiphenyl (37% Cl))	z-0042	0.2	0.6	1	5	
2346	Polychlorinated biphenyl (Aroclor 1221); (Chlorodiphenyl (21% Cl))	11104-28-2	0.2	0.6	1	5	
2347	Polychlorinated biphenyl (Aroclor 1232); (Chlorodiphenyl (32% Cl))	11141-16-5	0.2	0.6	1	5	
2348	Polychlorinated biphenyl (Aroclor 1242); (Chlorodiphenyl (42% Cl))	53469-21-9	1	3	5	5	
2349	Polychlorinated biphenyl (Aroclor 1248); (Chlorodiphenyl (48% Cl))	12672-29-6	0.2	0.6	1	5	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2350	Polychlorinated biphenyl (Aroclor 1254); (Chlorodiphenyl (54% Cl))	11097-69-1	0.5	1.5	2.5	5	
2351	Polychlorinated biphenyl (Aroclor 1260); (Chlorodiphenyl (60% Cl))	11096-82-5	0.2	0.6	1.5	5	
2352	Polychlorinated biphenyl (Aroclor 1260/1262); (Chlorodiphenyl (61% Cl?))	z-0043	0.2	0.6	1.5	5	
2353	Polychlorinated biphenyl (Aroclor 1262); (Chlorodiphenyl (62% Cl))	37324-23-5	1	3	5	5	
2354	Polychlorinated biphenyl (Aroclor 1268); (Chlorodiphenyl (68% Cl))	11100-14-4	0.2	0.6	1	5	
2355	Polychlorinated biphenyl; (Aroclor; PCBs)	1336-36-3	1	3	5	5	
2356	Polydimethyl siloxane; (Dimethylpolysiloxane)	9016-00-6	7.5	25	150	500	Rat ip LD50 > 2 g/kg
2357	Polydimethyl siloxanes	7013-67-8	500	500	500	500	Dimethyl siloxane rabbit 7.5 hour LC minimum.
2358	Polyether polyol ester	z-0112	15	50	350	500	Rat oral LDlo.
2359	Polyethylbenzene residue; (Dowtherm Q)	68987-42-8	7.5	20	150	750	WEEL-TWA, WEEL-TWA*3, ERPG-2 , ERPG-2*5.
2360	Polyethylene	9002-88-4	10	30	50	500	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2361	Polyethylene glycol	25322-68-3	10	60	500	500	WEEL-TWA, rat TClo, rat iv LDlo.
2362	Polyethylene glycol 20M	37225-26-6	10	30	500	500	
2363	Polyethylene glycol dimethacrylate	25852-47-5	10	30	50	250	PNOS default used.
2364	Polyglycol 15-200: (Calthane NF and ND "B")	9082-00-2	40	125	500	500	Rat oral LD50 > 10 g/kg
2365	Polyisocyanate prepolymer (based on MDI)	zz-0001	0.6	1.5	12.5	60	Rat TClo
2366	Polymaleic acid; (2-Butenediiodic acid homopolymer)	26099-09-2	10	30	50	250	PNOS TLV-TWA default used.
2367	Polymerized Linseed Oil	67746-08-1	7.5	25	150	500	Rat oral LD50 based on HHR = 2.
2368	Polymethylene polyphenyl isocyanate; (Polymeric diphenylmethane diisocyanate)	9016-87-9	2	6	40	200	Rat TClo, rat 240 min LC50.
2369	Polymethylhydrosiloxane; (Methyl hydrogen polysiloxane)	63148-57-2	10	30	50	250	PNOS TLV-TWA default used.
2370	Polymethylmethacrylate; (Lucite)	9011-14-7	5	15	100	500	Rat implant TD lo.
2371	Polyoxyalkyleneamine; (Poly(oxypropylene)diamine)	9046-10-0	10	30	50	100	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2372	Polyoxyethylene (20) sorbitan monolaurate	9005-64-5	3	7.5	60	500	Mouse, pregnant, ip TD lo, rat ip LD50.
2373	Polyoxyethylene monoethylphenyl ether	9036-19-5	15	50	350	500	
2374	Polyoxyethylene sorbitan monopalmitate; (TWEEN 40)	9005-66-7	12.5	40	250	500	Rat iv LD50.
2375	Polyoxypropylene polyamine	39423-51-3	10	30	50	250	Used PNOS default.
2376	Polyphosphoric acid	8017-16-1	1.5	5	40	200	
2377	Polypropylene	9003-07-0	12.5	40	250	500	
2378	Polypropylene glycol, chloromethyl) oxirane polymer	9072-62-2	7.5	25	150	500	Rat oral LD50 minimum.
2379	Polypropylene glycols	25322-69-4	10	30	200	500	WEEL-TWA, rat oral LD50.
2380	Polypropylene-polyethylene glycol; (Pluronic L81)	9003-11-6	10	30	200	500	
2381	Polysorbate 85; (TWEEN 85)	9005-70-3	75	250	500	500	Rat oral LD50 based on HHR = 1,
2382	Polystyrene resin; (Styrene polymer)	9003-53-6	10	30	50	75	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2383	Polysulfone resin	25135-51-7	10	30	50	250	PNOS default.
2384	Polyurethane foam; (Urethane polymers)	9009-54-5	0.2	0.6	5	25	
2385	Polyurethane prepolymer of MDI	68092-58-0	10	30	50	250	Used PNOS default.
2386	Polyurethane prepolymer of MDI + polyether polyol	65636-36-4	10	30	50	250	Used PNOS default.
2387	Polyvinyl alcohol	9002-89-5	40	125	500	500	
2388	Polyvinyl chloride	9002-86-2	6	18	500	500	
2389	Potassium	7440-09-7	2	2	2	10	
2390	Potassium acetate	127-08-2	12.5	40	250	500	
2391	Potassium acid fluoride	7789-29-9	5.14	15.4	25.7	500	Fluoride concentration limits.
2392	Potassium aluminate	12003-63-3	7.27	21.8	36.3	150	
2393	Potassium aluminite	z-0044	2.5	7.5	12.5	500	SAR

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2394	Potassium aluminosilicate	1327-44-2	5	30	50	500	SAR
2395	Potassium antimonate	29638-69-5	2.1	6.31	10.5	210	
2396	Potassium antimonate; (Potassium hexahydroxyantimonate)	12208-13-8	1.08	3.24	5.4	108	
2397	Potassium antimonite	z-0045	0.94	2.82	4.7	94	Sb Conc. limits
2398	Potassium argentate	z-0046	0.0168	0.0503	0.0839	16.8	
2399	Potassium arsenate; (Monopotassium arsenate)	7784-41-0	0.024	0.072	2.5	12	
2400	Potassium arsenite	10124-50-2	0.0533	6	26.7	26.7	
2401	Potassium arsenite; (Arsenous acid, potassium salt)	13464-35-2	0.0195	0.0585	6	9.74	
2402	Potassium beryllium oxide	z-0047	0.016	0.08	6	32	
2403	Potassium bicarbonate	298-14-6	12.5	35	60	500	
2404	Potassium bi-iodate	13455-24-8	4	12.5	75	400	MSDS K.I.O3 mouse oral LDlo.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2405	Potassium bismuthate	12589-75-2	1.25	4	25	200	SAR
2406	Potassium bisulfate	7646-93-7	10	30	200	500	
2407	Potassium bromate	7758-01-2	0.1	0.3	60	60	WEEL-TWA, human oral TD lo, rat oral LD50.
2408	Potassium bromide	7758-02-3	12.5	40	250	500	
2409	Potassium cadminate	z-0048	0.0115	0.069	0.115	20.7	
2410	Potassium carbonate	584-08-7	10	20	150	500	
2411	Potassium chlorate	3811-04-9	12.5	40	300	350	
2412	Potassium chloride	7447-40-7	1.5	5	15	15	
2413	Potassium chromate(VI)	7789-00-6	0.0187	0.75	6	56	Cr VI concentration limits.
2414	Potassium citrate	866-84-2	1.25	4	30	150	
2415	Potassium citrate, monohydrate	6100-05-6	10	30	50	250	PNOS default.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2416	Potassium columbate; (Potassium niobate)	12030-85-2	12.5	35	250	500	
2417	Potassium cyanide	151-50-8	5	5	5	62.6	
2418	Potassium dichromate	7778-50-9	0.0141	1.5	10	42.4	Cr VI concentration limits.
2419	Potassium dideuterium phosphate	13761-79-0	0.0015	0.004	0.0075	0.2	
2420	Potassium ferricyanide	13746-66-2	5.9	17.7	30	500	
2421	Potassium ferrocyanide; (Tetrapotassium hexacyanoferrate)	13943-58-3	11.8	35.4	59	59	Rat TClo, rat oral LD50.
2422	Potassium fluoride	7789-23-3	7.65	22.9	38.2	500	
2423	Potassium fluoride dihydrate	13455-21-5	12.4	37.2	61.9	500	Fluoride concentration limits.
2424	Potassium formate	590-29-4	20	60	500	500	
2425	Potassium glycolate	1932-50-9	35	75	600	3,500	SAR
2426	Potassium gold cyanide	554-07-4	27.7	83	138	138	Concentration limits for Cyanides, as CN.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2427	Potassium hexacyanoferrate(II) trihydrate; (Potassiumate ferrocyanide trihydratetrihydrate)	14459-95-1	13.5	40.6	67.6	67.6	CN concentration limits.
2428	Potassium hexafluorosilicate; (Silicate(2-), hexafluoro-, dipotassium)	16871-90-2	0.4	1.25	7.5	60	Rat oral TD lo, rat oral LD50.
2429	Potassium hydride	7693-26-7	1.5	5	35	150	Rat oral LD50 based on HHR = 3.
2430	Potassium hydrogen lead oxide	z-0049	0.06	0.06	0.06	125	SAR
2431	Potassium hydrogen pyrophosphate	z-0050	4	12.5	20	400	SAR
2432	Potassium hydrogen silicate	z-0051	10	30	50	250	
2433	Potassium hydroxide	1310-58-3	2	2	2	150	
2434	Potassium iminodiacetate; (Potassium IDA)	z-0052	35	100	750	4,000	
2435	Potassium iodate	7758-05-6	20	60	60	60	
2436	Potassium iodide	7681-11-0	0.25	0.75	6	300	
2437	Potassium lanthanate	z-0053	0.4	1.25	2.5	2.5	SAR

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2438	Potassium metaborate	13709-94-9	12.5	35	250	500	SAR
2439	Potassium molybdate	13446-49-6	12.4	37.2	62.1	500	Molybdenum concentration limits.
2440	Potassium nickel oxide (liquids); (Nickel potassium oxide)	50811-97-7	2.88	2.88	3	28.8	Nickel concentration limits.
2441	Potassium nickelate (liquids)	z-0055	3.49	3.49	3.5	34.9	Nickel concentration limits.
2442	Potassium nickelate (solids)	z-0056	3.49	3.49	3.5	34.9	Nickel concentration limits.
2443	Potassium nitrate	7757-79-1	1	3.5	20	500	
2444	Potassium nitrilotriacetate; (Potassium NTA)	2399-85-1	5	15	100	500	
2445	Potassium nitrite	7758-09-0	0.04	0.1	0.75	500	
2446	Potassium orthovanadate	14293-78-8	0.0638	0.191	0.638	44.6	
2447	Potassium oxalate	583-52-8	7.5	25	150	500	Woman oral LDlo.
2448	Potassium oxalate monohydrate	6487-48-5	7.5	25	150	500	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2449	Potassium perchlorate	7778-74-7	125	400	500	500	
2450	Potassium periodate	7790-21-8	1	3	20	100	Estimated rat 240 min LC50 based on HR.
2451	Potassium permanganate	7722-64-7	0.575	8.63	14.4	125	
2452	Potassium persulfate; (Dipotassium persulfate)	7727-21-1	0.1	0.3	60	350	
2453	Potassium pertechnetate	14133-76-7					Radiation dose will dominate. No TEELs.
2454	Potassium phosphate dibasic trihydrate	16788-57-1	300	500	500	500	
2455	Potassium phosphate, dibasic	7758-11-4	10	30	50	250	
2456	Potassium phosphate, monobasic	7778-77-0	10	30	50	500	
2457	Potassium phosphate, tribasic	7778-53-2	10	30	50	500	
2458	Potassium pyrophosphate; (Tetrapotassium diphosphate)	7320-34-5	10	30	500	500	
2459	Potassium pyrosulfate; (Disulfuric acid, dipotassium salt)	7790-62-7	10	30	50	250	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2460	Potassium pyrosulfite	16731-55-8	20	60	400	500	Rat oral repro TD lo.
2461	Potassium selenate	7790-59-2	0.56	1.68	2.8	2.8	
2462	Potassium selenite	10431-47-7	0.52	0.52	0.52	2.6	
2463	Potassium silicate; (Silicic acid, potassium salt)	1312-76-1	10	30	50	250	PNOS default
2464	Potassium silver cyanide	506-61-6	1	3	20	20	
2465	Potassium stannate	12142-33-5	2.5	7.5	12.5	125	SAR
2466	Potassium strontium phosphate	53201-92-6	10	30	50	500	SAR
2467	Potassium sulfate (2:1); (Dipotassium sulfate)	7778-80-5	2	6	40	500	
2468	Potassium sulfite	10117-38-1	10	30	50	250	
2469	Potassium tellurate	15571-91-2	0.211	0.634	1.06	2	
2470	Potassium tellurite	7790-58-1	0.199	0.597	3.5	15	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2471	Potassium tetrafluoroborate(1-)	14075-53-7	4.14	124	207	414	Fluoride concentration limits.
2472	Potassium tetraphenylborate	3244-41-5	1	3	5	25	
2473	Potassium thiocyanate	333-20-0	10	35	60	60	
2474	Potassium trihydrogen silicate	z-0058	10	30	50	250	
2475	Potassium tungstate (liquids)	7790-60-5a	1.77	5.32	5.32	5.32	
2476	Potassium tungstate (solids)	7790-60-5b	1.77	5.32	5.32	5.32	
2477	Potassium uranyl carbonate	z-0059	0.429	1.03	3.5	17.2	
2478	Potassium zirconate	12030-98-7	11.9	23.8	23.8	59.6	Zr concentration limits.
2479	Potassium-tert-butoxide; (tert-Butyl alcohol, potassium derivitave)	865-47-4	1.5	5	35	150	
2480	Praseodymium	7440-10-0	1.5	5	35	150	Rat oral LD50 based on HHR = 3.
2481	Praseodymium nitrate	10361-80-5	7.5	20	150	500	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2482	Praseodymium oxide	12036-32-7	7.5	25	150	500	
2483	Praseodymium(III,IV) oxide	12037-29-5	20	60	400	500	Rat oral LD50 minimum.
2484	Promecarb; (m-Cym-5-yl methylcarbamate)	2631-37-0	3	10	16	25	
2485	Propanamine, 1-; (Propylamine)	107-10-8	40	125	600	600	
2486	Propane	74-98-6	1,500	9,920	30,600	59,500	PEL-TWA, AEGL-1, AEGL-2, AEGL-3.
2487	Propane sultone, 1,3-	1120-71-4	0.4	1.25	7.5	20	
2488	Propanediamine, 1,2-	78-90-0	7.5	25	200	500	
2489	Propanediamine, 1,3-	109-76-2	0.6	1.5	12.5	125	
2490	Propanedinitrile; (Malononitrile)	109-77-3	7.5	7.5	13.2	27	REL-TWA, AEGL-2, AEGL-2, AEGL-3.
2491	Propanediol, 1,3-	504-63-2	20	60	400	500	Mouse oral LD50
2492	Propanediol, 2,2-dimethyl-, 1,3-	126-30-7	2,500	2,500	2,500	2,500	Rat 360 min TClo, rat oral LD50.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2493	Propanethiol	107-03-9	0.075	0.2	1.5	2,500	REL-C, rat 240 min LC50.
2494	Propanol, zirconium(4+) salt, 1-	23519-77-9	18	53.9	89.8	180	Zr concentration limits.
2495	Propargyl alcohol	107-19-7	2	4	30	150	
2496	Propargyl bromide	106-96-7	0.03	0.03	0.03	20	WEEL-TWA, LOC, rat oral LD50.
2497	Propiolactone, b-	57-57-8	1.5	1.5	15	40	
2498	Propionaldehyde	123-38-6	40	107	617	1,990	TLV-TWA, AEGL-1, AEGL-2, AEGL-3..
2499	Propionic acid	79-09-4	30	30	40	1,000	
2500	Propionic acid, 3-ethoxy-, ethyl ester	763-69-9	20	60	400	500	
2501	Propionic acid, sodium salt	137-40-6	15	50	350	500	Mouse oral LD50, rat TD lo.
2502	Propionic anhydride	123-62-6	10	30	200	500	
2503	Propionitrile; (Propionitrile)	107-12-0	12.5	12.5	15.8	83.3	REL-TWA, REL-TWA, AEGL-2, AEGL-3.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2504	Propionyl chloride	79-03-8	0.3	0.75	6	30	
2505	Propoxur	114-26-1	0.5	1.5	20	20	
2506	Propyl acetate, N-	109-60-4	750	1,000	4,000	6,000	PEL-TWA, TLV-STEL, human TClo, IDLH.
2507	Propyl alcohol, n-	71-23-8	500	600	600	2,000	
2508	Propyl chloroformate; (Propyl chlorocarbonate)	109-61-5	2	6	10	300	
2509	Propyl nitrate	627-13-4	100	150	1,000	5,000	
2510	Propyl-1-butanamine, N-	20193-21-9	15	50	350	500	
2511	Propylbenzene, N-; (Isocumene)	103-65-1	150	400	3,000	15,000	
2512	Propylene carbonate, 1,2-	108-32-7	0.125	0.35	2.5	12.5	
2513	Propylene glycol dinitrate	6423-43-4	0.35	0.35	0.6	100	
2514	Propylene glycol monomethyl ether acetate; (1-Methoxypropyl-2-acetate)	108-65-6	250	750	1,250	3,500	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2515	Propylene glycol monomethyl ether; (UCAR TRIOL HG-170)	107-98-2	350	500	1,000	2,500	
2516	Propylene glycol mono-n-butyl ether; (3-butoxy-1-propanol)	10215-33-5	250	250	1,500	2,500	WEEL-TWA, rat TClo, rat ral LD50.
2517	Propylene glycol; (1,2-Propanediol)	57-55-6	10	10	10	500	
2518	Propylene oxide; (Methyl ethylene oxide)	75-56-9	40	173	689	2,070	TLV-TWA, AEGL-1, AEGL-2, AEGL-3.
2519	Propylene; (1-Propene)	115-07-1	750	2,500	4,000	35,000	TLV-TWA, mouse TClo, rat LC minimum.
2520	Propyleneimine, 1,2-	75-55-8	4	4	28	53.7	PEL-TWA, PEL-TWA, AEGL-2, AEGL-3.
2521	Prothoate; (Isopropyl diethyldithiophosphorylacamide)	2275-18-5	0.35	1	1.7	7.5	
2522	Pump oil	64742-65-0	100	300	500	500	
2523	Pyrene	129-00-0	2.5	7.5	15	15	
2524	Pyridine	110-86-1	15	50	600	3,000	
2525	Pyridinecarboxaldehyde, 4-; (Isonicotinaldehyde)	872-85-5	12.5	40	250	500	Mouse oral LDlo.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2526	Pyridine-D5	7291-22-7	15	50	75	400	Pyridine PEL-TWA, rat oral LD50.
2527	Pyriminil; (Pyriminyl)	53558-25-1	1.25	3.5	6.2	20	
2528	Pyrogallic acid	87-66-1	0.75	2.5	15	25	Human oral LDlo, rat oral TD lo.
2529	Pyromellitic acid	89-05-4	1.25	3.5	25	125	
2530	Pyroxylin; (Cellulose tetranitrate)	9004-70-0	10	30	50	500	
2531	Pyrrole; (Imidole)	109-97-7	0.1	0.3	2	10	Mouse sc LD50
2532	Pyrrolidine	123-75-1	5	15	100	500	
2533	Pyrrolidinone, 2-	616-45-5	3.5	10	60	150	
2534	Pyruvate kinase	9001-59-6	2.5	7.5	50	500	
2535	Quaternary ammonium compounds, benzyl-C12-C16-alkyldimethyl, chlorides	68424-85-1	1.5	5	35	150	
2536	Quinhydrone	106-34-3	0.3	0.75	6	30	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2537	Quinoline	91-22-5	0.005	3.5	25	150	WEEL-TWA, rat oral TD lo, rat oral LD50.
2538	Quinolinol, 8-	148-24-3	2.5	7.5	50	500	
2539	Resorcinol	108-46-3	40	75	75	75	
2540	REXYN I-300; (Ethylene glycol dimethacrylate polymer with styrene, chloromethylated, trimethylamine-quaternized, hydroxide)	69011-49-0	10	30	50	250	PNOS default.
2541	Rhenium hexafluoride	10049-17-9	6.58	19.8	32.9	500	Fluoride concentration limits, as F.
2542	Rhenium oxide; (Rhenium(VII) oxide)	1314-68-7	1.3	3.9	6.5	30	
2543	Rhodium	7440-16-6	0.1	3	5	100	
2544	Rhodium oxide (liquids); (Rhodium(IV) oxide)	12137-27-8a	0.0013	0.0393	0.5	2.6	
2545	Rhodium oxide (solids); (Rhodium(IV) oxide)	12137-27-8b	0.131	3.93	6.56	131	
2546	Rhodium(III) hydroxide (liquids)	21656-02-0a	0.0015	0.045	0.6	2.99	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2547	Rhodium(III) hydroxide (solids)	21656-02-0b	0.15	4.49	7.5	150	
2548	Rhodium(III) oxide (solids)	12036-35-0	0.123	3.7	6.17	123	
2549	Riboflavine	83-88-5	7.5	25	150	500	Rat sc LD50.
2550	Ribonuclease T1	9026-12-4	10	30	50	250	
2551	Ricin	9009-86-3	0.025	0.075	0.25	0.25	Human TD lo, human LDlo.
2552	Rosin core solder decomposition products; (Colophony Gum)	8050-09-7	0.1	0.3	40	40	Netherlands MAC, rat LC50.
2553	Rotenone	83-79-4	5	5	7.5	500	
2554	Rubber solvent; (Naphtha (petroleum) light aliphatic)	64742-89-8	400	400	750	4,000	
2555	Rubidium	7440-17-7	5	15	100	500	
2556	Rubidium bromide	7789-39-1	10	30	50	250	
2557	Rubidium chloride	7791-11-9	0.015	0.05	0.35	500	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2558	Rubidium hydroxide	1310-82-3	2.5	7.5	50	250	
2559	Rubidium nitrate	13126-12-0	10	30	50	500	
2560	Ruthenium	7440-18-8	10	30	50	250	
2561	Ruthenium trichloride	10049-08-8	1.5	4	30	150	
2562	Ruthenium(IV) oxide	12036-10-1	4	12.5	15	15	
2563	Safrol; (5-(2-Propenyl)-1,3-benzodioxole)	94-59-7	5	15	100	500	
2564	Salcomine; (bis(Salicylaldehyde)ethylenediimine cobalt(II))	14167-18-1	7.5	20	39	400	
2565	Salicylaldehyde	90-02-8	0.6	1.5	12.5	200	Pregnant rat subcutaneous TD lo, rat oral LD50.
2566	Salicylic acid	69-72-7	0.3	0.75	6	400	
2567	Salicylic acid, monoammonium salt	528-94-9	1.5	4	30	500	Human oral TD lo, rat parenteral LDlo.
2568	Salicylic acid, phenyl ester	118-55-8	4	12.5	75	500	Rat oral TD lo and LD50.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2569	Samarium	7440-19-9	10	30	50	250	PNOS default used.
2570	Samarium nitrate	10361-83-8	7.5	25	150	500	
2571	Samarium(ii) iodide solution	32248-43-4	7.5	25	150	500	Estimated rat oral LD50 based on HHR.
2572	Samarium(III) chloride hexahydrate	13465-55-9	12.5	40	250	500	Rat oral LD50.
2573	Samarium(III) oxide	12060-58-1	20	60	400	500	
2574	Saxitoxin	35523-89-8	0.	0.0001	0.0006	0.0035	Human uk LDlo
2575	Scandium	7440-20-2	10	30	50	250	PNOS default.
2576	Scandium oxide	12060-08-1	10	30	50	250	
2577	Sec-butyllithium	598-30-1	1	3	20	100	Estimated rat 240 min LC50 based on HHR.
2578	Selenious acid	7783-00-8	0.327	0.98	1.6	1.6	
2579	Selenium	7782-49-2	0.2	0.6	1	1	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2580	Selenium dioxide	7446-08-4	0.281	0.843	1.4	1.4	
2581	Selenium hexafluoride	7783-79-1	1	3	5	40	
2582	Selenium monosulfide	7446-34-6	0.281	0.844	12.5	15	
2583	Selenium oxychloride	7791-23-3	0.42	1.26	4.41	4.41	
2584	Selenium sulfide; (Selenium(IV) disulfide (1:2))	7488-56-4	0.362	1.09	1.81	60	
2585	Semicarbazide hydrochloride	563-41-7	20	60	100	100	
2586	Sephacryl s-200, superfine	65546-95-4	10	30	50	250	PNOS default used.
2587	Sephacryl s-300	82785-74-8	10	30	50	250	PNOS default used.
2588	Sephadex gel filter 20-801	9041-35-4	10	30	50	250	
2589	Sepharose cl-4b	61970-08-9	10	30	50	250	PNOS default used.
2590	Silane	7803-62-5	6	20	30	5,000	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2591	Silica amorphous fumed	112945-52-5	2	6	200	500	
2592	Silica amorphous hydrated	7631-86-9	6	30	50	500	
2593	Silica gel	63231-67-4	10	30	50	250	
2594	Silica gel dessicant	1343-98-2	6	30	500	500	
2595	Silica gel, amorphous synthetic	112926-00-8	10	30	50	250	
2596	Silica, amorphous fume	69012-64-2	2	6	10	50	
2597	Silica, crystalline-quartz; (Silicon dioxide)	14808-60-7	0.3	0.3	0.3	50	
2598	Silicic acid	7699-41-4	10	10	75	400	
2599	Silicic acid, aluminum calcium sodium salt	1344-01-0	10	30	50	250	Al sol. Salts TLV-TWA.
2600	Silicic acid, sodium salt; (Sodium silicate)	1344-09-8	7.5	25	150	500	Rat oral LD50.
2601	Silicofluoric acid; (Fluorosilicic acid)	16961-83-4	3.16	9.48	15.8	50	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2602	Silicon	7440-21-3	15	30	250	500	
2603	Silicon carbide	409-21-2	15	30	250	500	
2604	Silicon nitride	12033-89-5	10	30	50	250	PNOS default.
2605	Silicon tetrafluoride; (Tetrafluorosilane)	7783-61-1	3.5	150	400	400	
2606	Silicon(II) oxide; (Silicon oxide)	10097-28-6	10	30	50	250	
2607	Siloprene k 1000	63394-02-5	35	100	500	500	Rat implant TD lo, rat oral LD50 maximum.
2608	Siloxanes and silicones, -di-Me,-reaction products with silica; (Hydrophobic silicon dioxide, amorphous)	67762-90-7	6	15	125	500	Rat TClo.
2609	Siloxanes and silicones; (Silicone fluid, high temp)	63148-58-3	10	10	50	250	Rat 240 min LC50.
2610	Silver	7440-22-4	0.01	0.3	0.5	10	Concentration limits.
2611	Silver carbonate; (Silver(I) carbonate)	534-16-7	0.0128	0.0383	0.0639	12.8	Silver concentration limits.
2612	Silver chloride	7783-90-6	0.0133	0.0399	0.0664	13.3	Silver concentration limits.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2613	Silver cyanide	506-64-9	25.7	25.7	25.7	129	Cyanide concentration limits.
2614	Silver hydroxide	12673-77-7	0.0116	0.0347	0.06	11.6	Silver concentration limits.
2615	Silver nitrate	7761-88-8	0.0157	15.7	15.7	15.7	Silver concentration limits.
2616	Silver nitrite; (Silver(I) nitrite)	7783-99-5	0.0143	0.0428	0.0713	14.3	Silver concentration limits.
2617	Silver oxide	20667-12-3	10	30	50	50	PNOS default.
2618	Soda lime	8006-28-8	5	5	5	25	Calcium oxide concentration limits.
2619	Sodium	7440-23-5	0.5	0.5	5	50	Sodium hydroxide concentration limits.
2620	Sodium acetate	127-09-3	15	40	300	500	
2621	Sodium acetate trihydrate; (Acetic acid, sodium salt trihydrate)	6131-90-4	15	40	300	500	
2622	Sodium aluminate	1302-42-7	2	6	10	50	
2623	Sodium aluminate; (Aluminum sodium oxide)	11138-49-1	2	6	10	500	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2624	Sodium aluminosilicate	1344-00-9	3.5	10	150	500	SAR
2625	Sodium aluminum hydride	13770-96-2	3	7.5	60	300	Mouse oral LD50.
2626	Sodium aluminum silicate	73987-94-7	3.5	10	15	500	SAR
2627	Sodium antimonate; (Sodium hexahydroxoantimonate)	33908-66-6	0.792	2.37	4	79.2	
2628	Sodium antimonate; (Antimonic acid, sodium salt)	11112-10-0	1.01	3.04	5.07	101	
2629	Sodium antimonite	z-0061	0.874	2.62	4.37	87.4	
2630	Sodium argentate	z-0062	0.0153	0.0459	0.0764	15.3	
2631	Sodium arsenate	7631-89-2	0.0271	7.5	13.5	13.5	
2632	Sodium arsenite	7784-46-5	0.0173	0.075	0.6	8.67	
2633	Sodium azide	26628-22-8	0.29	0.29	0.29	12.5	
2634	Sodium beryllium oxide	z-0063	0.0124	0.0621	5	24.9	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2635	Sodium bicarbonate	144-55-8	10	30	50	500	
2636	Sodium bifluoride; (Sodium hydrogen fluoride)	1333-83-1	4.08	4.08	6	35	
2637	Sodium bis(2-methoxyethoxy) aluminum hydride	22722-98-1	15	45	75	350	Al soluble salts TLV-TWA.
2638	Sodium bismuthate	12232-99-4	1.5	5	35	150	
2639	Sodium bisulfate monohydrate	10034-88-5	0.75	2.5	15	75	
2640	Sodium bisulfate; (Sodium acid sulfate)	7681-38-1	1.25	3.5	25	125	
2641	Sodium bisulfite	7631-90-5	5	15	25	500	
2642	Sodium borate decahydrate	1303-96-4	2	6	200	500	TLV-TWA, TLV-STEL, rat oral TD lo, human oral LDlo.
2643	Sodium borate; (Disodium tetraborate; Borates, tetrasodium salts)	1330-43-4	2	6	6	500	TLV-TWA, TLV-STEL, rat oral TD lo, rat oral LD50..
2644	Sodium borohydride	16940-66-2	0.075	0.2	1.5	7.5	
2645	Sodium bromate	7789-38-0	0.6	1.5	12.5	60	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2646	Sodium bromide	7647-15-6	1.5	5	35	500	
2647	Sodium butyl (2-ethylhexyl)phosphate	z-0064	0.02	0.06	0.4	2	SAR
2648	Sodium butyl butylphosphonate	z-0065	0.02	0.06	0.4	2	SAR
2649	Sodium cacodylate; (Sodium dimethylarsinate)	124-65-2	1.07	3.2	40	500	
2650	Sodium cadminate	z-0066	0.0101	0.0604	0.101	18.1	
2651	Sodium carbonate	497-19-8	10	30	50	500	
2652	Sodium carbonate monohydrate	5968-11-6	1.5	5	35	150	
2653	Sodium carboxymethyl cellulose; (Dowex 11)	9004-32-4	0.4	1.25	7.5	500	
2654	Sodium chloride	7647-14-5	15	40	300	500	
2655	Sodium chlorite	7758-19-2	0.75	2.5	15	75	
2656	Sodium chromate decahydrate	13517-17-4	0.0329	0.987	20	98.7	Cr VI concentration limits.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2657	Sodium chromate tetrahydrate	10034-82-9	0.0291	0.873	15	87.4	Cr VI concentration limits.
2658	Sodium chromate(VI); (Disodium chromate)	7775-11-3	0.0156	0.125	0.75	46.7	Cr VI concentration limits.
2659	Sodium citrate; (Monosodium citrate)	18996-35-5	10	30	50	500	
2660	Sodium cobaltinitrite	13600-98-1	0.125	0.4	3	15	
2661	Sodium cyanide	143-33-9	5	5	5	47.1	
2662	Sodium cyclopentadienylide; (Cyclopentadienyl sodium)	4984-82-1	10	30	50	250	PNOS default.
2663	Sodium deuterioxide	14014-06-3	0.15	0.5	5	50	Used NaOH ERPG values.
2664	Sodium dichromate dihydrate	7789-12-0	0.0143	0.43	0.716	43	Cr VI concentration limits.
2665	Sodium dichromate; (Disodium dichromate)	10588-01-9	0.0126	20	37.8	37.8	Cr VI concentration limits.
2666	Sodium diethyldithiocarbamate trihydrate	20624-25-3	6	15	125	500	Rat oral LD50.
2667	Sodium diethyldithiocarbamate; (Diethyldithiocarbamic acid, sodium salt)	148-18-5	2	6	250	500	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2668	Sodium dihydrogen phosphate; (Sodium phosphate monobasic, monohydrate)	10049-21-5	100	300	500	500	
2669	Sodium dithionate dihydrate	7631-94-9	10	30	50	250	
2670	Sodium dodecylbenzenesulfonate; (Dodecyl benzene sodium sulfonate)	25155-30-0	4	12.5	75	200	
2671	Sodium ethoxide	141-52-6	1.5	5	35	150	Rat pral LD50 based on HHR = 3.
2672	Sodium ferrocyanide	13601-19-9	5.44	16.3	27.2	500	
2673	Sodium fluoride	7681-49-4	5.53	5.53	5.53	75	
2674	Sodium formate	141-53-7	40	125	500	500	
2675	Sodium gluconate	527-07-1	0.6	2	15	75	
2676	Sodium glycinate	6000-44-8	4	12.5	100	500	
2677	Sodium glycolate; (Sodium hydroxyacetate)	2836-32-0	40	125	750	3,000	
2678	Sodium hexamethyldisilazane; (Sodium bis(trimethylsilyl)amide)	1070-89-9	10	30	50	250	PNOS default

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2679	Sodium hydride	7646-69-7	10	10	10	10	
2680	Sodium hydrogen lead oxide	z-0067	0.06	0.06	0.06	125	SAR
2681	Sodium hydrogen metasilicate	z-0068	4	12.5	75	400	SAR
2682	Sodium hydrogen pyrophosphate	z-0069	4	12.5	20	400	SAR
2683	Sodium hydrosulfite	7775-14-6	10	30	50	250	
2684	Sodium hydroxide	1310-73-2	0.5	0.5	5	50	ERPG-1, ERPG-1 , ERPG-2, ERPG-3 .
2685	Sodium hypochlorite	7681-52-9	0.6	2	50	500	WEEL-STEL, human iv TD lo, mouse oral LD50.
2686	Sodium hypochlorite pentahydrate	10022-70-5	0.075	0.2	1.5	500	
2687	Sodium hypophosphite	7681-53-0	6	20	125	500	Mouse ip LD50.
2688	Sodium hypophosphite hydrate	123333-67-5	6	20	125	500	Mouse intraperitoneal LD50.
2689	Sodium iodate	7681-55-2	2	6	40	200	Mouse oral LD50.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2690	Sodium iodide	7681-82-5	0.75	2.5	15	500	
2691	Sodium isothiocyanate; (Thiocyanic acid, sodium salt)	540-72-7	0.25	0.75	6	100	
2692	Sodium lactate; (Lactic acid, monosodium salt)	72-17-3	15	40	300	500	Rat ip TD lo and LD50.
2693	Sodium lanthanate	z-0070	0.4	1.25	2.5	2.5	
2694	Sodium lauryl sulfate	151-21-3	0.35	1	6	500	
2695	Sodium metabisulfite	7681-57-4	5	15	25	100	
2696	Sodium metaborate	7775-19-1	6.18	18.5	30.9	500	Inorganic borate compound TLV-TWA, TLV-STEL, rat oral LD50
2697	Sodium metaphosphate	10361-03-2	3.5	10	75	350	
2698	Sodium metasilicate	z-0071	26.1	26.1	26.1	26.1	Used REL-TWA for silicates
2699	Sodium metasilicate nonahydrate	13517-24-3	61.1	183	306	500	Used REL-TWA for silicates, rat oral LD50.
2700	Sodium metavanadate; (Sodium vanadate)	13718-26-8	0.1	0.35	2	30	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2701	Sodium methyate	124-41-4	7.5	25	150	500	
2702	Sodium molybdate dihydrate; (Disodium molybdate dihydrate)	10102-40-6	12.6	12.6	200	200	
2703	Sodium monoxide; (Sodium oxide)	12401-86-4	10	10	10	10	
2704	Sodium nickel oxide (Liquid)	37367-09-2	2.33	2.33	2.33	23.3	Nickel soluble concentration limits.
2705	Sodium nickelate (Liquids)	z-0073	2.94	2.94	3	29.4	Nickel soluble concentration limits.
2706	Sodium nickelate (Solids)	z-0074	2.94	2.94	3	29.4	Nickel insoluble concentration limits.
2707	Sodium nitrate	7631-99-4	0.4	1	7.5	100	
2708	Sodium nitrite	7632-00-0	0.04	0.125	1	60	
2709	Sodium nitroferricyanide	14402-89-2	0.6	2	12.5	20	Woman iv TD lo, human inh 3 hour LDlo.
2710	Sodium o-benzyl-p-chlorophenate	3184-65-4	10	30	50	250	
2711	Sodium orthovanadate	13721-39-6	0.182	0.25	1.82	35.4	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2712	Sodium oxalate	62-76-0	10	30	50	50	
2713	Sodium pentachlorophenate	131-52-2	1	3.5	24	75	
2714	Sodium perchlorate	7601-89-0	10	30	50	500	
2715	Sodium perchlorate monohydrate	7791-07-3	5	15	100	500	
2716	Sodium permanganate	10101-50-5	0.517	7.75	12.9	500	Concentration limits, as Mn.
2717	Sodium peroxide	1313-60-6	10	10	10	10	
2718	Sodium perrhenate; (Rhenium(VII) sodium oxide)	13472-33-8	10	30	50	500	
2719	Sodium persulfate	7775-27-1	0.1	0.3	20	100	
2720	Sodium pertechnetate	13718-28-0	10	30	50	250	
2721	Sodium phosphate	7632-05-5	0.75	2.5	15	75	
2722	Sodium phosphate, dibasic	7558-79-4	60	200	500	500	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2723	Sodium phosphate, dibasic, dodecahydrate	10039-32-4	1.5	5	35	150	
2724	Sodium phosphate, dibasic, heptahydrate	7782-85-6	50	150	500	500	
2725	Sodium phosphate, monobasic	7558-80-7	35	100	500	500	
2726	Sodium phosphate, tribasic	7601-54-9	1.5	5	500	500	WEEL-STEL, rabbit intravenous LDlo..
2727	Sodium phosphate, tribasic, dodecahydrate	10101-89-0	10	30	50	500	
2728	Sodium phosphate, tribasic; (Sodium hexametaphosphate; Calgon)	10124-56-8	25	75	500	500	
2729	Sodium phosphate, tribasic; (Sodium trimetaphosphate)	7785-84-4	15	40	300	500	
2730	Sodium polyphosphate	68915-31-1	12.5	40	250	500	Rat oral LD50.
2731	Sodium polytungstate	12141-67-2	6.77	13.5	35	150	Tungsten insoluble TLV-TWA, TLV-STEL.
2732	Sodium potassium tartrate tetrahydrate	6381-59-5	20	60	400	500	
2733	Sodium potassium tartrate; (Potassium sodium tartrate)	304-59-6	20	60	400	500	Mouse iv TD lo.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2734	Sodium p-tert-amylphenate; (4-(1,1-dimethylpropyl)phenol, sodium salt)	31366-95-7	10	30	50	250	
2735	Sodium pyrophosphate decahydrate	13472-36-1	10	30	200	500	Estimated mouse LD50.
2736	Sodium pyrophosphate, di-	7758-16-9	10	30	200	500	
2737	Sodium pyruvate (pyruvic acid, sodium salt)	113-24-6	10	30	50	250	PNOS default used.
2738	Sodium salicylate; (Salicylic acid, sodium salt)	54-21-7	40	100	500	500	Women TD lo, human LDlo.
2739	Sodium selenate; (Disodium selenate)	13410-01-0	0.479	1.44	1.6	1.6	
2740	Sodium selenite	10102-18-8	0.438	1.31	2.3	3	
2741	Sodium silicate; (Sodium metasilicate)	6834-92-0	40	100	500	500	Human oral TD lo, rat oral LD50.
2742	Sodium stannate	12058-66-1	3.58	10.8	17.9	179	Tin inorganic concentration limits.
2743	Sodium stearate	822-16-2	0.15	0.5	3.5	15	
2744	Sodium strontium phosphate	19553-80-1	10	30	50	500	SAR

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2745	Sodium succinate	150-90-3	35	100	750	4,000	
2746	Sodium succinate, hexahydrate	6106-21-4	35	100	500	500	Used sodium succinate mouse iv LD50.
2747	Sodium sulfate, anhydrous	7757-82-6	10	30	500	500	
2748	Sodium sulfhydrate; (Sodium hydrosulfide)	16721-80-5	0.06	0.15	1.25	6	
2749	Sodium sulfide	1313-82-2	0.75	2.5	15	75	
2750	Sodium sulfide nonahydrate	1313-84-4	0.2	0.6	4	20	Mouse intraperitoneal LD50.
2751	Sodium sulfite	7757-83-7	10	30	50	100	
2752	Sodium tartrate dihydrate	6106-24-7	5	15	100	500	Rat oral LD50.
2753	Sodium tellurate	10101-83-4	0.186	0.559	0.931	150	
2754	Sodium tellurite	10102-20-2	0.174	0.521	7.5	25	
2755	Sodium tetrafluoroborate(1-)	13755-29-8	3.61	10.8	18.1	100	Fluoride concentration limits, rat sc LD50.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2756	Sodium tetraphenyl borate	143-66-8	1.25	3.5	25	125	
2757	Sodium thiosulfate	7772-98-7	10	30	50	500	
2758	Sodium thiosulfate pentahydrate	10102-17-7	10	30	50	500	
2759	Sodium titanate	12034-34-3	10	30	50	250	PNOS default used.
2760	Sodium tridecylbenzene sulfonate	26248-24-8	2	6	40	200	Human minimum LD = 500 mg/kg.
2761	Sodium triethylborohydride	17979-81-6	22.6	67.7	113	150	Borate TLV-TWA, -STEL rat oral LD50 based on HHR.
2762	Sodium trihydrogen silicate	z-0076	10	30	50	250	
2763	Sodium tripolyphosphate	7758-29-4	10	30	50	500	
2764	Sodium tungstate	13472-45-2	1	3	7.5	500	
2765	Sodium tungstate dihydrate	10213-10-2	1.79	5.38	15	75	TLV-TWA, TLV-STEL, rat ip LD50.
2766	Sodium uranate; (Sodium diuranate)	66018-57-3	0.0779	0.935	3	15.6	Uranium compound concentration limits.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2767	Sodium uranium oxide monohydrate	13721-34-1	0.0685	0.822	2.5	13.7	Uranium compound concentration limits.
2768	Sodium uranyl carbonate	z-0078	0.395	0.948	3	15.8	Uranium compound concentration limits.
2769	Sodium zirconate; (Disodium zirconium oxide)	12201-48-8	10.9	21.8	21.8	54.6	Zr concentration limits.
2770	Sodium-Potassium	11135-81-2	0.482	0.482	5	50	Sodium hydroxide concentration limits.
2771	Solvent naphtha, petroleum, medium aliphatic; (Mineral spirits, naphtha)	64742-88-7	10	30	50	500	
2772	Solvent Yellow 3	97-56-3	2	6	40	500	
2773	Soman; (3,3-Dimethyl-2-butyl methylphosphonofluoridate, GD)	96-64-0	0.0004	0.0013	0.0164	0.127	MSDS-TWA, AEGL-1, AEGL-2, AEGL-3
2774	Sorbitan monolaurate; (D-Glucitol,-1,4-anhydro,-,6-dodecanoate-)	5959-89-7	10	30	50	250	PNOS default used.
2775	Sorbitan monostearate polyoxyethylene; (Ethoxylated sorbitan monostearate)	9005-67-8	0.75	2	15	500	Rat 7 week TD lo, rat iv LD50
2776	Sorbitan trioleate	26266-58-0	15	50	350	500	Rat iv TD lo.
2777	Sorbitan, monolaurate	1338-39-2	350	500	500	500	Rat oral 14 day TD lo, rat oral LD50.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2778	Sorbitan, monooleate	1338-43-8	250	500	500	500	Rat oral TD lo
2779	Sorbitan, monooleate polyoxyethylene; (Polyethylene sorbitan monooleate; Tween 80)	9005-65-6	0.75	2.5	15	500	Rat oral TD lo, mouse oral LD50
2780	Sorbitan, monostearate	1338-41-6	400	500	500	500	Rat oral repro TD lo, rat LD50.
2781	Sorbitol, d-; (d-Glucitol)	50-70-4	40	125	500	500	
2782	Spiro(isobenzofuran-1(3H),9'-(9H)xanthen)-3-one, 3',6'-dihydroxy-; (Fluorescein)	2321-07-5	0.4	1.25	7.5	250	Human iv TD lo, mouse iv LD50.
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	Mouse oral LD50.
2784	Stannic chloride; (Tin(IV) chloride; Tin(IV) tetrachloride)	7646-78-8	4.39	4.39	5	219	
2785	Stannous chloride; (Tin(II) chloride (1:2))	7772-99-8	3.19	9.58	16	160	
2786	Stannous octoate	301-10-0	0.341	1.023	15	85.3	Organic tin compound concentration limits.
2787	Starch dust	9005-25-8	15	30	500	500	PEL-TWA, rat oral TD lo, mouse ip LD50.
2788	Stibine	7803-52-3	0.5	0.5	2.6	7.8	PEL-TWA, PEL-TWA, ERPG-2, ERPG-3.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2789	Stilbene	588-59-0	5	15	100	500	Mouse ip LD50.
2790	Stilbene 3; (Stilbene 420; Tinopal CBS, Disodium 4,4'-bis(2-sulfostyryl)biphenyl)	27344-41-8	0.25	0.75	6	500	
2791	Stoddard solvent; (Mineral spirits, 85% nonane and 15% trimethyl benzene)	8052-41-3	500	500	500	500	
2792	Strontium	7440-24-6	10	30	50	250	
2793	Strontium carbonate	1633-05-2	20	20	20	20	SAR
2794	Strontium chloride	10476-85-4	7.5	20	150	500	Rat oral TD lo, rat oral LD50.
2795	Strontium hydroxide	18480-07-4	0.75	0.75	20	75	SAR
2796	Strontium nitrate	10042-76-9	10	30	250	500	
2797	Strontium nitrite; (Nitrous acid, strontium salt)	13470-06-9	0.04	0.1	0.75	75	SAR
2798	Strontium oxalate	814-95-9	7.5	25	60	75	SAR
2799	Strontium phosphate; (Strontium orthophosphate)	14414-90-5	10	30	500	500	SAR

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2800	Strontium sulfate	7759-02-6	10	30	50	250	
2801	Strychnine	57-24-9	0.15	0.3	0.3	3	
2802	Strychnine sulfate (2:1)	60-41-3	1	3	5	30	
2803	Styrene	100-42-5	85.1	85.1	553	4,680	AEGL-1, AEGL-1, AEGL-2, AEGL-3.
2804	Styrene oxide; (1,2-Epoxyethylbenzene)	96-09-3	20	60	250	250	
2805	Styrene-allyl alcohol copolymer	25119-62-4	10	30	50	250	PNOS default,
2806	Styrenesulfonate), Poly(Sodium 4-	25704-18-1	150	500	500	500	Pregnant rai oral TD lo, rat oral LD50 minimum.
2807	Succinic acid	110-15-6	7.5	25	200	500	
2808	Succinic anhydride	108-30-5	0.75	2	15	500	
2809	Sucrose	57-50-1	15	30	50	500	Concentration limits, rat oral LD50
2810	Sucrose, diacetate hexaisobutyrate; (Sucrose acetate isobutyrate; SAIB)	126-13-6	12.5	40	300	500	Dog oral TD lo, rat oral LDlo.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2811	Sulfamic acid	5329-14-6	12.5	40	250	500	
2812	Sulfanilamide	63-74-1	1	3	20	500	
2813	Sulfanilic acid	121-57-3	50	150	500	500	Rat oral LD50.
2814	Sulfonic acids, petroleum; (Petrolatum acid sulfonate)	61789-85-3	10	30	50	250	
2815	Sulfonylbis-ethanol, 2,2'-	2580-77-0	1.5	5	35	150	Estimated HHR = 3 and rat oral LD50.
2816	Sulfosalicylic acid	97-05-2	10	30	200	500	
2817	Sulfosalicylic acid, dihydrate, crystal	5965-83-3	7.5	20	150	500	Rat oral LD50.
2818	Sulfotep; (TEDP)	3689-24-5	0.2	0.5	3.5	10	
2819	Sulfur	7704-34-9	0.125	0.4	2.5	12.5	
2820	Sulfur dioxide	7446-09-5	0.524	0.524	1.96	78.5	AEGL-1, AEGL-1, AEGL-2, AEGL-3.
2821	Sulfur hexafluoride	2551-62-4	6,000	15,000	30,000	30,000	Concentration limits, mam LC lo

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2822	Sulfur monochloride	10025-67-9	2.92	2.92	35.3	82.8	AEGL-1, AEGL-1, AEGL-2, AEGL-3.
2823	Sulfur pentafluoride	5714-22-7	0.1	0.1	0.1	10	
2824	Sulfur tetrafluoride	7783-60-0	0.4	0.4	7.5	7.5	
2825	Sulfur trioxide	7446-11-9	0.06	0.2	8.7	160	AEGL-1/3, AEGL-1, AEGL-2, AEGL-3.
2826	Sulfuric acid	7664-93-9	0.2	0.2	8.7	160	AEGL-1, AEGL-1, AEGL-2, AEGL-3.
2827	Sulfuric Acid D2; (Deuteriosulfuric acid)	13813-19-9	1	1	3	15	Used sulfuric acid concentration limits PEL-TWA, IDLH.
2828	Sulfurous acid	7782-99-2	0.0125	0.04	0.3	1.5	
2829	Sulfuryl chloride	7791-25-5	2	6	50	75	Rat TClo, rat 240 min LC50
2830	Sulfuryl fluoride	2699-79-8	20	40	750	750	PEL-TWA, TLV-STEL, rat TClo, IDLH.
2831	Talc	14807-96-6	2	2	10	500	
2832	Tall oil (alkyd resin)	68333-62-0	10	30	50	250	

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2833	Tantalum	7440-25-7	5	10	500	500	
2834	Tantalum carbide	12070-06-3	5.33	10.7	500	500	Tantalum and oxide dust concentration limits used.
2835	Tantalum(V) ethoxide	6074-84-6	10	30	50	250	PNOS default.
2836	Tantalum(V) fluoride	7783-71-3	7.26	21.8	36.3	100	
2837	Tantalum(V) oxide	1314-61-0	6.11	12.2	500	500	
2838	Tartaric acid	87-69-4	4	12.5	75	400	
2839	Tartaric acid, monopotassium salt	868-14-4	150	500	500	500	Rat oral LD50.
2840	Tartaric acid, monosodium salt	526-94-3	15	50	400	500	Mouse oral LD50.
2841	Technetium(IV) oxide	12036-16-7	10	30	50	250	
2842	Tellurium	13494-80-9	0.1	0.3	20	25	
2843	Tellurium chloride	10026-07-0	0.211	0.633	15	52.8	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2844	Tellurium hexafluoride	7783-80-4	0.35	1	1	15	
2845	Tellurium oxide; (Tellurium dioxide)	7446-07-3	0.125	0.375	5	31.3	
2846	Tellurous acid	10049-23-7	0.139	0.418	0.696	34.8	
2847	Terbium	7440-27-9	1.5	5	35	150	Rat oral LD50 based on HHR = 3.
2848	Terbium oxide	12036-41-8	10	30	50	250	
2849	Terbium(III,IV) oxide	12037-01-3	10	30	50	250	PNOS default.
2850	Terbufos	13071-79-9	0.2	0.6	1	1	
2851	Terephthalic acid	100-21-0	10	125	500	500	
2852	Terephthaloyl chloride	100-20-9	0.75	2.5	20	500	
2853	Terphenyl; p-	92-94-4	5	5	9	500	
2854	Terphenyls; (Diphenylbenzene)	26140-60-3	5	5	9	500	

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2855	Tert butyllithium	594-19-4	1.5	5	35	150	Rat LD50 estimated from HHR = 3.
2856	Tert-butyl alcohol; (tert-Butanol)	75-65-0	300	400	5,000	5,000	
2857	Tert-butyl benzoic acid, P-	98-73-7	2	6	50	200	Rat 360 min TClo, rat oral LD50.
2858	Tert-butylphenol, P-; (Tert-Butylphenol, 4-)	98-54-4	0.5	0.5	0.75	500	MAK-TWA, mouse TClo, rat LC lo.
2859	Tert-butylpyridine, 4-	3978-81-2	10	30	50	250	PNOS default used.
2860	Tetraamminepalladium(II) nitrate	13601-08-6	1.5	5	35	150	
2861	Tetrabromoethane, 1,1,2,2-; (Acetylene tetrabromide)	79-27-6	1.25	75	100	100	TLV-TWA, mouse TClo, IDLH.
2862	Tetrabutyl ammonium phosphate	5574-97-0a	10	30	50	250	Used PNOS default
2863	Tetrabutyl titanate; (Butyl titanate)	5593-70-4	12.5	40	250	1,250	
2864	Tetrabutylammonium hydroxide	2052-49-5	0.06	0.15	1.25	6	
2865	Tetrabutylammonium nitrate	1941-27-1	0.075	0.25	1.5	7.5	

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No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2866	Tetrachloro-1,2-difluoroethane, 1,1,2,2-	76-12-0	4,000	12,500	15,000	15,000	PEL-TWA, rat TClo, IDLH.
2867	Tetrachlorobenzene, 1,2,3,4-	634-66-2	12.5	35	250	500	
2868	Tetrachlorobenzene, 1,2,4,5-	95-94-3	10	30	50	500	
2869	Tetrachlorodibenzofuran, 2,3,7,8-	51207-31-9	0.0006	0.002	0.002	0.002	
2870	Tetrachlorodibenzo-p-dioxin, 1,2,3,8-	53555-02-5	0.004	0.0125	0.075	0.4	
2871	Tetrachloroethane (mixed isomers)	25322-20-7	10	35	200	3,000	
2872	Tetrachloroethane, 1,1,1,2-	630-20-6	20	60	400	1,500	
2873	Tetrachloroethane, 1,1,2,2-	79-34-5	35	35	35	600	
2874	Tetrachlorohexafluorobutane, 2,2,3,3-; (FLON; CFC316)	375-34-8	2.5	7.5	50	250	
2875	Tetrachlorosilane; (Silicon chloride)	10026-04-7	1.5	5.3	35	259	ERPG-1/3, ERPG-1, ERPG-2, ERPG-3.
2876	Tetracosafuorotetradecahydro-phenanthrene; (Perfluorophenanthrene)	306-91-2	3.42	10.3	17.1	75	Fluoride concentration limits.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2877	Tetracyanoquinodimethane; (Ultima Gold AB)	1518-16-7	0.4	1.25	10	50	
2878	Tetracycline hydrochloride	64-75-5	0.75	2.5	15	500	
2879	Tetradecafluorohexane; (Perfluoro-n-hexane; Fluorinert FC72)	355-42-0	2,500	7,500	60,000	350,000	Rat TClo, rat LC lo minimum.
2880	Tetradecane, N-	629-59-4	0.125	0.4	2.5	500	Rabbit skin TD lo, mouse iv LDE lo.
2881	Tetradecane; (N-tetradecane)	629-59-4	0.4	1	7.5	10,000	Mouse sk TD lo, mouse iv LDlo.
2882	Tetradecanoic acid; (Myristic acid)	544-63-8	0.35	1	7.5	35	
2883	Tetradecyltrimethylammonium bromide	1119-97-7	15	50	350	500	Rat oral LD50.
2884	Tetraethyl lead	78-00-2	0.117	0.468	0.781	62.4	
2885	Tetraethyl orthosilicate; (Ethyl silicate; Tetraethoxysilane)	78-10-4	213	213	850	2,550	ERPG-1, ERPG-1 , ERPG-2, ERPG-3 .
2886	Tetraethyl pyrophosphate; (TEPP)	107-49-3	0.05	0.15	1	5	PEL-TWA, LOC, IDLH.
2887	Tetraethylammonium chloride	56-34-8	0.25	0.75	6	500	Human iv TD lo, rat LD50.

AEGLs = bold 12pt font / ERPGs (but not AEGLs) = bold 10pt font

The "Source of PACs" column will be enhanced in the near future to improve the clarity and completeness of its information.

Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2888	Tetraethylene Glycol	112-60-7	125	350	500	500	
2889	Tetraethylene glycol diacrylate	17831-71-9	1	3.5	25	350	WEEL-TWA, rabbit sk TD lo, rat oral LD50.
2890	Tetraethylenepentamine	112-57-2	5	15	350	500	WEEL-TWA, rat oral LD50.
2891	Tetraethyltin; (Tetraethylstannane)	597-64-8	0.198	0.396	7	49.5	
2892	Tetrafluoroethane, 1,1,1,2-; (HFC 134a)	811-97-2	4,000	33,400	54,200	113,000	WEEL-TWA, AEGL-1, AEGL-2, AEGL-3
2893	Tetrafluoroethane, 1,1,1,2- (HFC 134)	359-35-3	3.5	10	15	350	Fluoride concentration limits.
2894	Tetrafluoroethylene	116-14-3	7.5	818	4,090	40,900	TLV-TWA, ERPG-1, ERPG-2, ERPG-3.
2895	Tetrafluoroethylene, polymer; (Polytetrafluoroethylene; Teflon)	9002-84-0	3.5	10	60	350	Rat implant TD lo
2896	Tetrafluorohydrazine	10036-47-2	3.5	10	60	400	
2897	Tetrahydro-2,5-dimethyl furan	1003-38-9	15	50	350	500	
2898	Tetrahydrofuran	109-99-9	295	295	1,470	14,700	ERPG-1, ERPG-1, ERPG-2, ERPG-3.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2899	Tetrahydrofuran-d8	1693-74-9	300	300	1,500	15,000	Used tetrahydrofuran (109-99-9) limits.
2900	Tetrahydronaphthalene, 1,2,3,4- (tetalin)	119-64-2	1.25	3.5	25	100	Human TClo, guinea pig LC50.
2901	Tetrahydropyridine, 1,2,3,6-	694-05-3	10	30	50	250	PNOS default.
2902	Tetramethoxypropane, 1,1,3,3-: (Malonaldehyde bis(dimethyl acetal))	102-52-3	7.5	25	150	500	Estimated rat oral LD50.
2903	Tetramethoxysilane; (Methyl silicate)	681-84-5	6	7.5	62	124	TLV-TWA, ERPG-2/7 ERPG-2, ERPG 3.
2904	Tetramethyl ammonium, tetrahydroborate(1-)	16883-45-7	0.3	1	6	35	Rat oral LD50.
2905	Tetramethyl ethylene diamine	110-18-9	50	150	600	600	
2906	Tetramethyl lead	75-74-1	0.0968	0.581	4	51.6	
2907	Tetramethyl-1,3-butanediamine, n,n,n',n'-; (Tetramethyl butanediamine)	97-84-7	2	6	40	200	
2908	Tetramethyl-3,5-heptanedione, 2,2,6,6-; (Dipivaloylmethane)	1118-71-4	10	30	50	250	PNOS default used.
2909	Tetramethyl-5-decyne-4,7-diol, 2,4,7,9-	126-86-3	10	30	50	250	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2910	Tetramethylammonium chloride	75-57-0	0.2	0.6	4	20	Rat oral LD50.
2911	Tetramethylammonium hydroxide	75-59-2	0.06	0.15	1.25	6	
2912	Tetramethylammonium hydroxide pentahydrate	10424-65-4	0.3	0.75	6	6	Rat skin TD lo, mouse sc LDlo.
2913	Tetramethylammonium silicate	53116-81-7	10	30	50	250	PNOS default used.
2914	Tetramethylbenzene, 1,2,3,5-	527-53-7	0.15	0.5	3.5	500	Rat skin TD lo, rat oral LD50.
2915	Tetramethylbenzene, 1,2,4,5-	95-93-2	30	100	500	500	Rat 24 hour TClo, rat LD50.
2916	Tetramethylbenzidine, 3,3',5,5'-	54827-17-7	0.5	1.5	10	60	Mouse ip LD50
2917	Tetramethylene sulfone; (Sulfolane; Tetrahydrothiophene-1,1-dioxide)	126-33-0	125	200	200	200	Monkey TClo, rat 8 hr LC lo minimum.
2918	Tetramethylsilane	75-76-3	15	50	75	350	
2919	Tetrammonium fluoride trihydrate, (tetrabutylammonium fluoroborate)	429-41-4	34.4	103	172	500	Fluoride concentration limits.
2920	Tetranitromethane	509-14-8	4.17	4.17	4.17	13.6	AEGL-2, AEGL-2, AEGL-2, AEGL-3

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2921	Tetraoxadodecane, 2,5,8,11-	112-49-2	6	20	150	750	Mouse oral TD lo preg.
2922	Tetraoxatetracosan-1-ol, 3,6,9,12-; ((Laurel alcohol tri(oxyethylene) ethanol; BRIJ 30)	5274-68-0	10	30	50	250	
2923	Tetraphenylarsonium chloride; (Tetraphenylarsenium chloride)	507-28-8	2.79	8.38	14	25	
2924	Tetrapotassium ethylenediaminetetraacetate; (EDTA tetrapotassium salt)	5964-35-2	4	15	75	400	SAR
2925	Tetrapropoxysilane	682-01-9	7.5	25	150	500	Rat oral LD50 estimated from HHR = 2.
2926	Tetrapropylammonium hydroxide	4499-86-9	0.15	0.5	3.5	15	
2927	Tetrapropylorthotitanate	3087-37-4	10	30	50	250	PNOS default.
2928	Tetrasodium pyrophosphate	7722-88-5	5	15	25	500	
2929	Tetrazole, 1h-	288-94-8	10	30	50	150	TLV-TWA default, HHR-based rat oral LD50.
2930	Thallium	7440-28-0	0.1	0.3	2	15	
2931	Thallium chloride; (Thallium(I) chloride)	7791-12-0	0.4	1.25	2	10	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2932	Thallium hydroxide	12026-06-1	0.108	0.325	0.542	16.2	
2933	Thallium nitrate; (Thallium(I) nitrate)	10102-45-1	0.13	0.391	19.6	19.6	
2934	Thallium nitrite	13826-63-6	0.123	0.368	0.613	18.4	
2935	Thallium oxide	1314-12-1	0.104	0.312	0.52	15	
2936	Thallium sulfate; (Sulfuric acid, dithallium(1+) salt)	10031-59-1	0.107	0.32	2	16	
2937	Thallium(I) acetate; (Acetic acid, thallium(1+) salt)	563-68-8	0.129	0.387	2.5	19.3	
2938	Thallium(I) carbonate (2:1)	6533-73-9	0.4	1.25	2	10	
2939	Thallium(I) sulfate; (Sulfuric acid, dithallium(1+) salt)	7446-18-6	0.0002	0.0006	0.004	0.006	
2940	Thallium(III) oxide	1314-32-5	2	2	2	20	
2941	Thallium(III) perchlorate hexahydrate	15596-83-5	0.299	0.897	7.5	44.8	
2942	Thallos malonate	2757-18-8	0.125	0.375	2	18.7	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2943	Thenoyltrifluoroacetone	326-91-0	1.25	3.5	25	125	
2944	Thioacetamide	62-55-5	10	30	50	125	
2945	Thioacetic acid	507-09-5	0.02	0.06	0.4	30	Rat skin TG lo, mouse ip LD50.
2946	Thiobis(4-chloro-6-methyl)phenol, 2,2'-	4418-66-0	0.25	0.75	1.3	1.3	LOC, rat oral LD50.
2947	Thiocarbazide; (Thiocarbohydrazide)	2231-57-4	20	60	100	100	
2948	Thiocresol, p-; (p-Toluenethiol)	106-45-6	0.75	2.5	15	75	Mouse ip LD50.
2949	Thiocyanic acid, compound with guanidine (1:1); (Guanidene thiocyanate salt)	593-84-0	1.25	3.5	25	125	Mouse ip LD50.
2950	Thiodiglycol	111-48-8	25	75	500	500	
2951	Thiofanox; (Dacamox)	39196-18-4	8.5	8.5	8.5	30	
2952	Thionazin; (Ethyl pyrazinyl phosphorothioate)	297-97-2	0.6	2	3.5	3.5	
2953	Thionyl chloride	7719-09-7	0.97	0.97	9.74	48.7	ERPG-1, ERPG-1 , ERPG-2 , ERPG-3 .

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2954	Thiophosphoryl chloride	3982-91-0	1.25	4	25	60	Rat oral TD lo, rat 240 min LC50.
2955	Thiosemicarbazide	79-19-6	0.075	0.2	1.5	4	
2956	Thiourea	62-56-6	10	10	25	125	
2957	Thiram; (Tetramethylthioperoxydicarbonic diamide)	137-26-8	5	5	5	100	
2958	Thorium	7440-29-1	0.2	0.6	4	20	Human TClo.
2959	Thorium hydroxide	13825-36-0	0.75	0.75	2.5	75	SAR
2960	Thorium nitrite	z-0079	0.05	0.125	0.75	75	SAR
2961	Thorium oxalate	2040-52-0	42.1	126	210	500	T-0 based on DRL for Th.
2962	Thorium oxide; (Thorium dioxide)	1314-20-1	25	75	500	500	Human intra-arterial TD lo, rat it LD50 minimum.
2963	Thorium perchlorate	16045-17-3	31.4	94.3	157	500	T-0 based on DRL for Th.
2964	Thorium(IV) nitrate	13823-29-5	0.75	2	15	25	Rat sc TD lo, rat ip LD50.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2965	Thulium	7440-30-4	10	30	50	250	PNOS default used.
2966	Thulium chloride	13537-18-3	15	50	350	500	Mouse oral LD50.
2967	Thulium oxide	12036-44-1	11.4	34.3	57.1	250	PNOS default.
2968	Thymol blue; (6,6(3H-2,1-benzoxathiol-3-ylidene)dithymol,S,S-dioxide)	76-61-9	10	30	50	250	PNOS default used.
2969	Thyodene; (Amylodextrin)	9005-84-9	10	30	50	250	
2970	Tin	7440-31-5	2	6	100	100	
2971	Tin fluoroborate	13814-97-6	4.93	14.8	25	246	Tin PEL-TWA, IDLH, as Sn.
2972	Tin hydroxide	12026-24-3	2.57	7.72	12.9	129	
2973	Tin nitrate	41480-79-9	4.09	12.3	20.4	204	
2974	Tin nitrite	z-0080	3.55	10.7	17.8	178	
2975	Tin(II) chloride dihydrate; (Stannous chloride dihydrate)	10025-69-1	3.8	11.4	20	190	Used tin, inorganic compounds, concentration limits, as Sn.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2976	Tin(II) oxide	1332-29-2	2.54	7.62	12.7	127	
2977	Tin(II) sulfate; (Stannous sulfate)	7488-55-3	3.62	10.9	18.1	500	
2978	Tin(IV) isopropoxide	1184-61-8	0.1	0.2	5	25	Sn organic concentration limits.
2979	Tin(IV) oxide; (Stannic oxide)	18282-10-5	2.54	7.62	12.7	127	
2980	Titanium	7440-32-6	10	30	50	50	
2981	Titanium aluminide	39410-63-4	10	30	50	250	
2982	Titanium boride	12045-63-5	10	30	50	250	
2983	Titanium carbide	12070-08-5	12.5	37.5	62.6	300	
2984	Titanium chloride	7705-07-9	0.5	1.5	10	50	
2985	Titanium hydride	7704-98-5	1.5	5	35	150	
2986	Titanium oxide; (Titanium dioxide)	13463-67-7	15	15	15	500	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2987	Titanium tetrachloride	7550-45-0	0.5	5	7.75	44.2	WEEL-TWA, ERPG-1, AEGL-2, AEGL-3.
2988	Titanium(II) oxide	12137-20-1	10	30	50	250	
2989	Titanium(III) fluoride	13470-08-1	4.6	12.5	75	460	Fluoride concentration limits.
2990	Titanium-based alloy; (Titanium compounds)	z-0081	10	30	50	250	
2991	Toluene	108-88-3	753	753	4,520	16,900	AEGL-1, AEGL-1, AEGL-2, AEGL-3.
2992	Toluene d8	2037-26-5	200	750	2,000	10,000	Toluene TLV-TWA and AEGLs.
2993	Toluene-1,3-diisocyanate	26471-62-5	1.5	5	12.5	12.5	
2994	Toluene-2,4-diisocyanate; (TDI)	584-84-9	0.035	0.142	0.591	3.63	TLV-TWA, AEGL-1, AEGL-2, AEGL-3
2995	Toluene-2,6-diamine; (2-Methyl-1,3-benzenediamine)	823-40-5	1.5	4	30	150	
2996	Toluene-2,6-diisocyanate	91-08-7	0.035	0.142	0.591	3.63	TLV-TWA, AEGL-1, AEGL-2, AEGL-3
2997	Toluenediamine, 2,4-; (2,4-Diaminotoluene)	95-80-7	0.025	7.5	60	250	WEEL-TWA, Rrat oral TD lo, rat oral LD50.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
2998	Toluenesulfonamide, P-; (Pasam)	70-55-3	1	3	20	100	Mouse ip LD50.
2999	Toluenesulfonic acid, methyl ester, P-	80-48-8	0.75	2.5	15	150	Rat oral TD lo and LD50.
3000	Toluenesulfonyl chloride, p-	98-59-9	2.5	7.5	50	250	WEEL-C, rat oral TD lo.
3001	Toluenesulphonic acid monohydrate, para; (4-Methylbenzenesulphonic acid monohydrate)	6192-52-5	10	30	200	500	
3002	Toluenethiol, m-	108-40-7	0.2	0.6	4	20	
3003	Toluidine, m-; (2-Methylaniline)	108-44-1	7.5	35	200	200	TLV-TWA, rat oral TD lo, rat oral LD50.
3004	Toluidine, o-	95-53-4	20	20	20	200	Concentration limits, Human TClo.
3005	Toluidine, p-; (4-Methylbenzenamine)	106-49-0	2	15	125	150	TLV-TWA, rat oral TD lo, rat oral LD50.
3006	Toxaphene; (Chlorinated camphene)	8001-35-2	0.5	1	20	200	
3007	Trans-1,4-dichlorobutene; (2-Butylene dichloride)	110-57-6	0.2	0.6	4	40	
3008	Transformer oil; (Mineral oil, petroleum distillates, hydrotreated (mild) light naphthenic)	64742-53-6	5	15	100	500	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
3009	Tri(2-ethylhexyl) phosphate; (Tris(2-ethylhexyl)phosphate)	78-42-2	12.5	12.5	12.5	12.5	
3010	Triacetin; (Triacetyl glycerin)	102-76-1	12.5	35	250	500	
3011	Triamiphos	1031-47-6	2	6	10	10	
3012	Triaryl sulfonium chloride salts	109037-76-5	10	10	25	125	
3013	Triazine-1,3,5(2H,4H,6H)-triethanol, s-; (Onyxide 200)	4719-04-4	3	10	60	350	
3014	Triazofos; (Triazophos)	24017-47-8	0.5	1.5	2.8	125	
3015	Tribenzylamine	620-40-6	10	30	50	250	PNOS default.
3016	Tributyl citrate	77-94-1	15	50	350	1,250	Mouse ip LD50 and TD lo.
3017	Tributyl phosphate	126-73-8	5	25	150	300	PEL-TWA, rat oral TD lo, IDLH.
3018	Tributyl(2,4-dichlorobenzyl)phosphonium chloride	115-78-6	0.75	2	15	75	
3019	Tributyl-1-butanaminium iodide, N,n,n-; (Tetrabutylammonium iodide)	311-28-4	7.5	25	150	500	Rat oral D50.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
3020	Tributylphosphine	998-40-3	3	7.5	60	300	Rat oral LD50.
3021	Tributyltetradecylphosphonium chloride	81741-28-8	10	30	50	250	PNOS default used
3022	Trichloramine; (Nitrogen chloride)	10025-85-1	0.6	1.5	12.5	100	
3023	Trichloro ethyl phosphonate; ((2,2,2-Trichloro-1-hydroxyethyl)dimethylphosphonate; Trichlorphon)	52-68-6	1	3	5	500	TLV-TWA, human TClo, rat 240 min LC50.
3024	Trichloro(dichlorophenyl) silane	27137-85-5	0.35	1	7.5	7.5	
3025	Trichloro-2,2,2-trifluoroethane, 1,1,1-	354-58-5	250	500	500	500	
3026	Trichloroacetaldehyde hydrate; (Chloral hydrate)	302-17-0	10	30	50	50	
3027	Trichloroacetaldehyde; (Chloral)	75-87-6	2.5	7.5	50	250	
3028	Trichloroacetic acid	76-03-9	6	6	15	150	
3029	Trichloroacetyl chloride	76-02-8	0.2	0.6	4	50	Rat 240 min LC50.
3030	Trichlorobenzene, 1,2,3-	87-61-6	6	15	125	500	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
3031	Trichlorobenzene, 1,2,4-	120-82-1	35	35	35	300	
3032	Trichloroethane, 1,1,1-; (Methyl chloroform)	71-55-6	1,250	1,250	3,270	22,900	AEGL-1, AEGL-1, AEGL-2, AEGL-3.
3033	Trichloroethane, 1,1,2-	79-00-5	50	50	75	500	
3034	Trichloroethanol, 2,2,2-	115-20-8	12.5	35	250	250	Ratoral TD lo, rat oral LD50.
3035	Trichloroethylene	79-01-6	500	698	2,420	20,400	PEL-TWA, AEGL-1, AEGL-2, AEGL-3.
3036	Trichloroethylsilane; (Ethyl trichlorosilane)	115-21-9	0.15	0.4	3	40	
3037	Trichlorofluoromethane; (Fluorotrichloromethane, Freon 11)	75-69-4	2,500	2,500	7,500	10,000	
3038	Trichloronaphthalene	1321-65-9	5	15	25	50	
3039	Trichloronate; (Ethyl trichlorophenylethylphosphonothioate)	327-98-0	2	6	10	300	
3040	Trichlorophenol, 2,3,6-	933-75-5	1.25	4	25	125	
3041	Trichlorophenol, 2,4,5-	95-95-4	10	30	350	350	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
3042	Trichlorophenol, 2,4,6-	88-06-2	10	30	350	350	
3043	Trichlorophenoxy)propionic acid, 2-(2,4,5-; (2,4,5-Silvex)	93-72-1	10	30	200	250	
3044	Trichlorophenoxyacetic acid, 2,4,5-; (2,4,5-T)	93-76-5	10	30	50	250	
3045	Trichlorophenylsilane	98-13-5	0.15	0.4	3.3	40	
3046	Trichloropropane, 1,2,3-	96-18-4	60	60	60	600	
3047	Trichlorosilane	10025-78-2	1.5	5.5	16.5	137.5	ERPG-1/3, ERPG-1, ERPG-2, ERPG-3.
3048	Trichlorotrifluoroethane; (Freon 113; CFC113)	76-13-1	7,500	10,000	10,000	15,000	
3049	Tridecane	629-50-5	0.125	0.35	2.5	50	Rabbit skin TD lo, rat 480 min LC50 minimum.
3050	Tridodecylamine; (Alamine 304; N,N-didodecyl-1-dodecanamine)	102-87-4	7.5	25	150	500	Rat oral LD50 based on HHR.
3051	Triethanolamine; (Trihydroxytriethylamine)	102-71-6	5	5	20	500	
3052	Triethoxysilane	998-30-1	0.35	1	5	100	WEEL-TWA, LOC, rat 120 min LC50.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
3053	Triethoxysilyl)-1-propanamine, 2-(; (3-Aminopropyltriethoxysilane)	919-30-2	6	15	125	500	Rat TClo, rat oral LD50
3054	Triethoxyvinylsilane	78-08-0	125	350	2,500	12,500	Rat 240 min LC lo.
3055	Triethyl phosphate; (TEP)	78-40-0	75	200	500	500	Rat TClo, rat LC lo.
3056	Triethyl phosphite	122-52-1	12.5	40	300	1,500	
3057	Triethyl-, hydroxide, Ethanaminium, n,n,n-; (Tetraethyl ammonium hydroxide)	77-98-5	0.35	1	7.5	35	Mouse subcutaneous LDlo
3058	Triethylaluminum	97-93-8	8.46	8.46	50	250	Aluminum alkyls (as Al) TLV-TWA, rat 15 min LC50.
3059	Triethylamine	121-44-8	4	12.5	12.5	750	
3060	Triethylammonium bicarbonate buffer ph 8.5	15715-58-9	10	30	50	250	PNOS default used.
3061	Triethylbenzene (mixed isomers)	25340-18-5	40	125	750	4,000	
3062	Triethylene glycol	112-27-6	300	500	500	500	
3063	Triethylene glycol monomethyl ether	112-35-6	40	125	500	500	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
3064	Triethylenetetramine	112-24-3	6	50	350	1,000	WEEL-TWA, pregnant rat oral TD lo, rat oral LDF50.
3065	Triethyloxonium tetrafluoroborate	368-39-8	6.25	18.8	31.3	500	Fluoride concentration limits.
3066	Triethylphosphorothioate; (Tepto)	126-68-1	1.25	4	25	125	Rat 240 min LC50.
3067	Trifluoro-1-(2-thienyl)-1,3-butanedione, 4,4,4-boron difluoride	22502-27-8	0.75	2.5	15	75	Mouse iv LD50.
3068	Trifluoro-4-nitro-m-cresol, Alpha,Alpha,Alpha-; (4-Nitro-3-(trifluoromethyl)phenol)	88-30-2	0.6	1.5	12.5	60	Rat oral LD50.
3069	Trifluoroacetaldehyde hydrate; (2,2,2-Trifluoro-1,1-ethanediol)	421-53-4	2.5	7.5	50	250	Mouse oral LD50.
3070	Trifluoroacetic acid anhydride	407-25-0	4.61	13.8	23	461	Concentration limits, as F
3071	Trifluoroacetic acid; (Trifluoroethanoic acid)	76-05-1	50	75	75	75	
3072	Trifluoroacetyl chloride	354-32-5	6	15	250	1,250	
3073	Trifluoroethanol, 2,2,2-; (Trifluoroethyl alcohol)	75-89-8	1.25	35	250	250	WEEL-TWA, rat TClo, rat LC50.
3074	Trifluoromethanesulfonic acid; (Triflic acid)	1493-13-6	0.6	1.5	12.5	60	Rat 240 min LC50 based on HR =3.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
3075	Trifluoromethanesulfonic anhydride	358-23-6	1.5	5	35	150	Rat oral LD50 based on HHR = 3.
3076	Trifluoromethyl iodide; (Iodotrifluoromethane)	2314-97-8	15,000	35,000	35,000	35,000	Rat 2 week TClo, rat 4 hour LC lo.
3077	Trifluoromethyl)benzenamine, 3-; (m-Aminobenzal fluoride)	98-16-8	0.75	2.5	4.4	150	
3078	Trifluralin; (2,6-dinitro-N,N-dipropyl-4-(trifluoromethyl) benzenamine	1582-09-8	0.025	0.075	0.6	300	
3079	Triisobutylaluminum	100-99-2	14.7	44.1	500	500	
3080	Trimethoxy(3,3,3-fluoropropyl) silane	429-60-7	9.57	28.7	50	500	Fluoride concentration limits.
3081	Trimethoxyboroxine	102-24-9	20	60	400	500	
3082	Trimethoxysilane	2487-90-3	0.25	2.5	10	25	WEEL-TWA, ERPG-1, ERPG-2, ERPG-3.
3083	Trimethoxysilyl)-1-propanamine, 3-(	13822-56-5	10	30	50	250	PNOS default
3084	Trimethoxysilyl-1-Propanethiol, 3-; (3-Mercaptopropyltrimethoxysilane)	4420-74-0	3	7.5	60	300	Rat oral LD50
3085	Trimethoxysilylpropyl methacrylate, 3-; (Silane A-174)	2530-85-0	6	15	125	500	Rat TClo, rat oral LD50.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
3086	Trimethoxysilylpropyl) ethylenediamine, N-(3-	1760-24-3	30	75	500	500	Rat oral LD50.
3087	Trimethoxyvinylsilane; (Silane, trimethoxyvinyl)	2768-02-7	150	500	1,500	1,500	Rat TClo, rat LC50.
3088	Trimethyl borate	121-43-7	25	75	500	2,500	Rat oral LD50
3089	Trimethyl N', 2-hydroxyethyl-propylenediamine	82136-26-3	10	30	50	250	Used PNOS default.
3090	Trimethyl phosphate; (TMP)	512-56-1	25	75	350	350	
3091	Trimethyl phosphite	121-45-9	10	350	2,500	4,000	
3092	Trimethyl-1,3-pentanediol monoisobutyrate, 2,2,4-; (Texanol)	25265-77-4	25	75	500	500	
3093	Trimethyl-1-pentene, 2,4,4-: (Diisobutylene)	107-39-1	350	1,000	1,500	7,500	WEEL-TWA
3094	Trimethyl-2,5,8,11-tetraoxatetradecan-13-ol, 4,7,10-	20324-34-9	10	30	50	250	
3095	Trimethyl-2-hexene, 4,4,5-	55702-61-9	10	30	50	250	
3096	Trimethyl-2-oxepanone (mixed isomers); (Hexanoic acid, 6-hydroxytrimethyl, e-lactone; Trimethyl-E-lactone)	64047-30-9	30	75	500	500	Rat oral LD50

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
3097	Trimethylacetic acid; (Pivalic acid)	75-98-9	3.5	10	75	400	Rat oral LD50.
3098	Trimethylacetyl chloride; (Pivaloyl chloride)	3282-30-2	0.5	1.5	10	50	Rat 240 min LC50 assumed from HR=3
3099	Trimethylaluminum	75-24-1	5.34	16	26.7	125	TLV-TWA
3100	Trimethylamine	75-50-3	12.5	35	240	1,200	TLV-TWA, ERPG-2/7, ERPG-2, ERPG-3.
3101	Trimethylaniline, 2,4,6-	88-05-1	0.125	0.4	2.9	40	
3102	Trimethylbenzene, 1,2,3-	526-73-8	125	350	600	4,000	
3103	Trimethylbenzene, 1,2,4-; (Pseudocumene; Instagel)	95-63-6	125	150	150	7,500	
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	Rat LClo
3105	Trimethylchlorosilane	75-77-4	2.5	7.99	142	577	AEGL-1/3, AEGL-1, AEGL-2, AEGL-3.
3106	Trimethyldecane, 2,2,8-	62238-01-1	350	350	1,500	7,500	NIOSH REL-TWA for alkanes.
3107	Trimethyldecane, 2,5,6-	62108-23-0	350	350	1,500	7,500	NIOSH REL-TWA for alkanes.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
3108	Trimethyldecane, 3,3,4-	49622-18-6	350	350	1,500	7,500	NIOSH REL-TWA for alkanes.
3109	Trimethylene oxide; (Oxetane)	503-30-0	0.1	0.3	2	75	Rat sc TD lo and LD50.
3110	Trimethylgallium	1445-79-0	1.5	5	35	150	Rat oral LD50 based on HHR.
3111	Trimethylhexane, 2,2,5-	3522-94-9	350	350	1,500	7,500	NIOSH REL-TWA for alkanes.
3112	Trimethyloctane, 2,2,6-	62016-28-8	350	350	1,500	7,500	NIOSH REL-TWA for alkanes.
3113	Trimethyloctane, 2,3,6-	98060-52-7	350	350	1,500	6,000	NIOSH REL-TWA for alkanes.
3114	Trimethyloctane, 2,3,7-	62016-34-6	350	350	1,500	7,500	NIOSH REL-TWA for alkanes.
3115	Trimethyloctane, 2,4,6-	62016-37-9	350	350	1,500	7,500	NIOSH REL-TWA for alkanes.
3116	Trimethyloctane, 2,6,6-	54166-32-4	350	350	1,500	7,500	NIOSH REL-TWA for alkanes.
3117	Trimethylolpropane ethoxylate	50586-59-9	10	30	50	250	PNOS default.
3118	Trimethylolpropane phosphite	824-11-3	0.125	0.35	2.5	6	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
3119	Trimethylopropane methylated copolymer	71342-93-3	10	30	50	250	Used PNOS default.
3120	Trimethylphosphine	594-09-2	0.3	0.75	6	30	Rat 240 min LC50 based on HHR = 3.
3121	Trimethylpyridine, 2,4,6-	108-75-8	7.5	25	150	750	
3122	Trimethylsilanol	1066-40-6	0.15	1.5	7.5	15	SAR
3123	Trimethylsilylmethyl lithium	1822-00-0	1.5	5	35	150	Estimated rat oral LD50 based on HHR.
3124	Trimethyltin chloride; (Chlorotrimethylstannane)	1066-45-1	0.168	0.336	20	42	
3125	Trimethyltriheptylamine, 6,6',6''-; (Triisooctylamine)	2757-28-0	10	15	125	500	
3126	Tri-n-butylamine	102-82-9	0.15	0.5	3.5	60	Rat oral TD lo, rat 240 min LC lo.
3127	Trinitrobenzene 1,3,5-	99-35-4	10	30	50	125	
3128	Trinitrochlorobenzene, 2,4,6-; (Picryl chloride)	28260-61-9	10	30	50	250	
3129	Trinitrophenylmethyl nitramine, 2,4,6-; (Tetryl)	479-45-8	1.5	7.5	50	500	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
3130	Trinitrotoluene, 2,4,6-	118-96-7	1.5	7.5	60	500	
3131	Tri-n-octylphosphine oxide; (Trioctylphosphine oxide)	78-50-2	10	30	50	250	
3132	Trioctylamine; (n,n-Dioctyl-1-octanamine)	1116-76-3	4	12.5	75	400	
3133	Trioctylphosphine; (Tri-n-octylphosphine)	4731-53-7	0.5	1.5	10	50	Mouse 10 minute LC50 minimum.
3134	Tri-o-tolyl phosphate; (Triorthocresyl phosphate)	78-30-8	1.5	4	7.5	600	
3135	Tripentaerythritol; (Tripenek)	78-24-0	10	30	50	250	
3136	Triphenyl phosphate	115-86-6	3	9	500	500	
3137	Triphenyl phosphite	101-02-0	7.5	25	150	200	
3138	Triphenylborane	960-71-4	7.5	25	150	500	Rat oral LD50 based on HHR
3139	Triphenylethoxysilane	1516-80-9	10	30	50	250	PNOS default.
3140	Triphenylmethane triglycidyl ether	66072-38-6	10	30	50	250	PNOS default.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
3141	Triphenylphosphine	603-35-0	1.5	5	40	500	
3142	Triphenyltin chloride; (Chlorotriphenylstannane)	639-58-7	0.325	0.65	20	81.2	
3143	Tripotassium (2-hydroxyethyl)- ethylenediaminetriacetate; (Tripotassium HEDTA)	62029-50-9	5	15	125	600	SAR
3144	Tripotassium arsenate	13464-36-3	0.0342	0.103	0.171	17.1	
3145	Tripropylamine	102-69-2	20	60	400	2,000	Rat 240 min LC50.
3146	Tripropylene glycol methyl ether	25498-49-1	12.5	40	250	500	Rat oral LD50.
3147	Tripropylene glycol monomethyl ether; (1-(2-(2- Methoxy-1-methylethoxy)-1-methylethoxy)-2- propanol)	20324-33-8	0.04	0.125	0.75	1,500	
3148	Tripropylene glycol; (((1-methyl-1,2- ethanediyl)bis(oxy))bis-propanol)	24800-44-0	12.5	35	250	1,250	Rat oral LD50.
3149	Tris hydrochloride; (Trizma hydrochloride; Tris(hydroxymethyl) aminomethane hydrochloride)	1185-53-1	7.5	25	150	500	Rat oral LD50 based on MSDS HHR = 2.
3150	Tris((hydroxymethyl)methylamino)propane-1- sulphonic acid, 3-	29915-38-6	10	30	50	250	PNOS default.
3151	Tris(2-aminoethyl)amine	4097-89-6	2	6	40	100	Rat oral TD lo, rat oral LD50.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
3152	Tris(2-chloroethyl) phosphate; (2-Chloroethanol phosphate)	115-96-8	7.5	20	150	500	
3153	Tris(2-chloroethyl)amine	555-77-1	4	10	10	10	
3154	Tris(dimethylaminomethyl)phenol, 2,4,6-	90-72-2	5	15	100	500	
3155	Tris-hydroxymethylaminomethane; (THAM)	77-86-1	25	75	500	500	
3156	Trisodium arsenate	13464-38-5	0.0277	0.0832	0.139	13.9	
3157	Trisodium arsenate, heptahydrate; (Arsenic(V) acid, trisodium salt, heptahydrate (1:3:7))	64070-83-3	0.0446	0.134	0.223	22.3	
3158	Trisodium citrate	68-04-2	6	20	125	600	
3159	Trisodium-n-hydroxyethylethylenediaminetriacetate; (Trisodium-N-(2-	139-89-9	4	12.5	75	400	
3160	Triton X-100; (Poly(oxyethylene)-p-tert-octylphenyl ether)	9002-93-1	15	40	300	500	
3161	Trypan blue	72-57-1	10	30	50	500	
3162	Trypsin; (Parezyme; Chymotrypsin inhibitor)	9002-07-7	0.025	0.075	0.6	30	Mouse intramuscular TD lo, rat iv LD40.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
3163	Trypsinogen	9002-08-8	7.5	25	150	500	Rat oral LD50 based on HHR = 2.
3164	Tungstosilicic acid	11130-20-4	6.52	13	13	13	Insoluble Tungsten compounds concentration limits.
3165	Tungsten	7440-33-7	5	10	10	500	
3166	Tungsten boride	12007-09-9	5.29	10.6	26.5	125	Tungsten insoluble compound limits.
3167	Tungsten carbide	12070-12-1	5.33	10.7	10.7	10.7	
3168	Tungsten hexafluoride	7783-82-6	1.62	4.86	75	405	
3169	Tungsten trioxide; (Tungsten(VI) oxide)	1314-35-8	6.31	12.6	400	400	
3170	Tungsten(IV) chloride (tungsten tetrachloride)	13470-13-8	10	30	50	250	PNOS default used.
3171	Tungsten(IV) oxide	12036-22-5	5.87	11.7	11.7	11.7	
3172	Tungstic acid	7783-03-1	6.8	13.6	13.6	13.6	
3173	Turpentine	8006-64-2	600	600	600	4,000	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
3174	Undecane	1120-21-4	2	6	40	200	Rat oral LD50.
3175	Undecanone, 2-; (Methyl nonyl ketone)	112-12-9	1.25	4	30	2,000	
3176	Uranine; (Fluorescein sodium)	518-47-8	12.5	40	250	500	
3177	Uranium	7440-61-1	0.05	0.6	2	10	Concentration limits.
3178	Uranium hexafluoride; (Uranium fluoride)	7783-81-5	0.0739	3.6	9.6	36	PEL-TWA, AEGL-1, AEGL-2, AEGL-3
3179	Uranium hydride; (Uranium(III) hydride)	13598-56-6	0.0506	0.608	2	10.1	Uranium compound concentration limits.
3180	Uranium oxide; (Triuranium octaoxide)	1344-59-8	0.059	0.707	10	50	PEL-TWA, TLV-STEL, ERPG-2, ERPG-3.
3181	Uranium telluride	12138-37-3	0.104	1.24	4	20.7	Uranium compound concentration limits.
3182	Uranium telluride A	12138-37-3a	0.0857	1.03	3.5	17.1	Uranium compound concentration limits.
3183	Uranium(IV) oxide; (Uranium black oxide)	1344-57-6	0.0567	0.681	10	30	PEL-TWA, TLV-STEL, ERPG-2, ERPG-3.
3184	Uranium: insoluble compounds	z-0083	0.25	0.6	2	10	Uranium compound concentration limits.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
3185	Uranium: soluble compounds	z-0084	0.05	0.6	2	10	Uranium compound concentration limits.
3186	Uranyl acetate; (Uranium oxyacetate)	541-09-3	0.0891	1.07	3.5	17.8	Uranium compound concentration limits.
3187	Uranyl fluoride; (Uranium oxyfluoride)	13536-84-0	0.0647	0.776	2.5	12.9	Uranium compound concentration limits.
3188	Uranyl hydroxide	13470-18-3a	0.0639	0.766	2.5	12.8	Uranium compound concentration limits.
3189	Uranyl hydroxide (liquids)	13470-18-3b	0.0639	0.766	2.5	12.8	Uranium compound concentration limits.
3190	Uranyl nitrate (solid); (Bis(nitrato-O,O')dioxouranium)	10102-06-4	0.0828	0.993	3	16.6	Uranium compound concentration limits.
3191	Uranyl nitrate hexahydrate	13520-83-7	0.105	1.27	1.27	21.1	Uranium compound concentration limits.
3192	Uranyl nitrate; (yellow salt)	36478-76-9	0.0828	0.993	0.993	16.6	Uranium compound concentration limits.
3193	Uranyl nitrite (liquids)	z-0087	0.076	0.913	3	15.2	Uranium compound concentration limits.
3194	Urea	57-13-6	10	10	15	500	WEEL-TWA, women implant TD lo, rat oral LD50.
3195	Urea peroxide; (Urea hydrogen peroxide)	124-43-6	1.5	5	35	150	Rat oral LD50 estimated from HHR = 3.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
3196	Urethane; (Carbamic acid, ethyl ester; Ethyl carbamate)	51-79-6	500	500	500	500	
3197	Valeric acid	109-52-4	30	75	500	500	Rat oral preg. 10 day TD lo, mouse oral LD50
3198	Valinomycin	2001-95-8	0.5	1.5	2.5	2.5	
3199	Vanadium	7440-62-2	0.05	0.15	0.5	35	
3200	Vanadium pentoxide; (Vanadium(V) oxide)	1314-62-1	0.05	0.5	0.5	35	
3201	Vanadium sulfate	16785-81-2	0.5	1.5	10	50	
3202	Vanadium tetrachloride	7632-51-1	0.6	2	12.5	60	
3203	Vanadium trioxide	1314-34-7	0.0412	0.124	50	50	V2.O5 TLV-TWA, rat TClo, mouse oral LD50.
3204	Vanadium(II) sulfate heptahydrate	36907-42-3	0.05	0.05	0.05	0.25	
3205	Vanadium(III) sulfate	13701-70-7	0.107	0.107	0.107	0.5	
3206	Vanadium, trichlorooxo	7727-18-6	0.6	1.5	12.5	60	Rat oral LD50.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
3207	Vanadyl sulfate pentahydrate; (Vanadium(IV) sulfate oxide hydrate)	12439-96-2	0.0696	3	20	200	
3208	Vanadyl sulfate; (Oxysulfatovanadium)	27774-13-6	0.05	0.5	0.5	35	
3209	Vanillin	121-33-5	5	15	125	500	Rat TClo, rat LD50.
3210	Vegetable oil	68956-68-3	15	30	50	500	
3211	Veratraldehyde	120-14-9	7.5	25	150	500	Rat oral LD50.
3212	Vermiculite, exfoliated	1318-00-9	10	30	50	250	
3213	Vinyl 2-chloroethylsulfide; (2-Chloroethylthio ethene)	81142-02-1	0.15	0.4	3	15	Mouse 10 min LC lo for allyl 2-chloroethylsulfide.
3214	Vinyl acetate	108-05-4	17.6	17.6	264	1,760	ERPG-1, ERPG=1, ERPG-2, ERPG-3.
3215	Vinyl acetate-vinyl chloride copolymer; (Acetic acid, vinyl ester, polymer with chloroethylene)	9003-22-9	35	100	500	500	
3216	Vinyl acrylic resin; (Vinyl acetate, polymer with n-butyl acrylate)	25067-01-0	10	30	50	250	
3217	Vinyl bromide	593-60-2	20	60	100	200	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
3218	Vinyl chloride	75-01-4	2.5	639	3,070	12,300	PEL-TWA, AEGL-1, AEGL-2, AEGL-3.
3219	Vinyl ethyl ether; (Ethoxy ethene)	109-92-2	50	150	1,000	5,000	
3220	Vinyl fluoride	75-02-5	1.5	100	750	150,000	TLV-TWA, REL-C, rat 240 min LC50.
3221	Vinyl Terminated Dimethyl-Diphenylsiloxane Copolymer	68951-96-2	75	250	500	500	Rat oral LD50 based on HHR.
3222	Vinyl trichlorosilane	75-94-5	1	3.3	33	330	ERPG-1/3, ERPG-1, ERPG-2, ERPG-3.
3223	Vinyl-2-pyrrolidinone, 1-	88-12-0	0.2	25	150	350	TLV-TWA, rat TClo, rat 240 min LC50
3224	Vinylbenzylchloride; (4-Vinylbenzyl chloride)	1592-20-7	1.5	5	35	150	Rat oral LD50 based on HHR = 3.
3225	Vinylcyclohexene, 4-; (Cyclohevenylethylene)	100-40-3	0.4	1.25	200	15,000	TLV-TWA, Rat TClo, rat 240 min LC lo.
3226	Vinylformamide, N-	13162-05-5	5	15	100	500	Rat 249 min. LC50 minimum.
3227	Vinylidene chloride; (1,1-dichloroethylene)	75-35-4	20	250	1,980	3,960	TLV-TWA, ERPG-2/7, ERPG-2, ERPG-3.
3228	Vinylidene fluoride; (1,1-Difluoroethene)	75-38-7	1,250	1,250	1,250	35,000	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
3229	Vinylmagnesium bromide	1826-67-1	1.5	5	35	150	Estimated rat oral LD50 based on HHR.
3230	Vinylpyrrolidone/vinyl acetate copolymer	25086-89-9	100	250	250	250	Rat oral TD lo, rat oral LD50 minimum.
3231	Vinyltrimethoxysilane; (Ethenyltrimethoxysilane)	2768-02-7	750	2,500	7,500	7,500	Rat TClo, rat LC50.
3232	Virginia refrigeration oil 150 and 300; (Mineral oil, petroleum distillates, hydrotreated (mild) heavy naphthenic)	64742-52-5	15	40	300	500	Mouse skin 22 week TD lo, rat oral LD50 minimum.
3233	Vsub; (VXR)	20820-80-8	0.0006	0.0015	0.0125	0.06	Human LC50.
3234	Warfarin	81-81-2	0.1	0.3	20	20	
3235	Warfarin sodium	129-06-6	1.5	5	9	9	
3236	Xenon	7440-63-3	350,000	350,000	1,250,000	2,000,000	Simple asphyxiant
3237	Xylene, m-	108-38-3	400	600	750	4,000	
3238	Xylene, o-	95-47-6	400	600	750	4,000	
3239	Xylene, p-	106-42-3	400	600	750	4,000	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
3240	Xylenes	1330-20-7	400	564	3,990	10,800	PEL-TWA, AEGL-1, AEGL-2, AEGL-3.
3241	Xylenol orange tetrasodium salt	3618-43-7	10	30	50	250	
3242	Xylidine	1300-73-8	25	25	25	250	
3243	Xylidine, 2,6-	87-62-7	6	20	125	350	
3244	Xylidine, o-; (2,3-Xylidine)	87-59-2	2.5	50	50	250	
3245	Xylylene dichloride	28347-13-9	0.4	1.25	2	75	
3246	Yeast extract	8013-01-2	15	50	400	500	
3247	Ytterbium fluoride	13760-80-0	10.1	10.1	10.1	10.1	
3248	Ytterbium oxide	1314-37-0	10	30	50	250	
3249	Yttrium	7440-65-5	1	3	5	25	
3250	Yttrium chloride, hexahydrate	10025-94-2	3.41	10.2	17.1	500	Y concentration limits.

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
3251	Yttrium oxide	11130-29-3	1.18	3.54	100	500	
3252	Yttrium trioxide	1314-36-9	1.27	3.81	40	500	
3253	Zeolites, CaA; (Molecular sieve activated, type 5A)	68989-20-8	7.5	25	150	500	Estimated rat oral LD50 from HHR.
3254	Zeolites, KA; (Molecular seive activated, type 3A)	68989-21-9	10	30	50	250	Used PNOS default
3255	Zeolites, -NaA-; (Molecular sieve-4A-)	68989-22-0	6	15	125	500	Rat TClo.
3256	Zeolites, NaX; (Molecular sieve XS-11)	68989-23-1	10	30	50	250	Used PNOS default
3257	Zinc	7440-66-6	10	30	50	200	
3258	Zinc acetate	557-34-6	0.3	0.75	6	500	
3259	Zinc acetate dihydrate	5970-45-6	25	75	350	350	
3260	Zinc bromide	7699-45-8	10	30	50	200	
3261	Zinc carbonate	3486-35-9	5	15	100	500	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
3262	Zinc carbonate hydroxide	5263-02-5	10	30	50	250	PNOS default.
3263	Zinc chloride	7646-85-7	2.08	4.17	40	40	
3264	Zinc cyanide	557-21-1	22.6	22.6	22.6	113	
3265	Zinc fluoride	7783-49-5	6.8	6.8	20	100	
3266	Zinc hydroxide	20427-58-1	0.6	0.6	1.5	60	SAR
3267	Zinc nitrate	7779-88-6	10	10	10	10	
3268	Zinc nitrate hexahydrate	10196-18-6	5	15	100	500	
3269	Zinc nitrite	10102-02-0	0.035	0.075	0.6	60	SAR
3270	Zinc oxide	1314-13-2	15	15	15	500	
3271	Zinc perchlorate	13637-61-1	10	30	50	250	PNOS default.
3272	Zinc phenolsulfonate; (Zinc p-hydroxybenzenesulfonate)	127-82-2	0.6	2	12.5	500	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
3273	Zinc phosphate (3:2)	7779-90-0	2	6	50	250	
3274	Zinc phosphide	1314-84-7	0.6	1.5	12	60	
3275	Zinc stearate	557-05-1	15	30	50	150	
3276	Zinc sulfate	7733-02-0	0.15	0.5	3.5	500	
3277	Zinc sulfate heptahydrate (1:1:7)	7446-20-0	100	200	200	200	Rat oral TD lo, human uk LDlo.
3278	Zirconium and compounds (as Zr)	7440-67-7	5	10	10	25	Zr concentration limits
3279	Zirconium boride	12045-64-6	6.19	12.4	30.9	30.9	Zr concentration limits
3280	Zirconium carbide	12070-14-3	6.32	12.6	12.6	31.6	Zr concentration limits
3281	Zirconium chloride	10026-11-6	12.8	25.5	25.5	63.9	Zr concentration limits
3282	Zirconium chloride oxide octahydrate	13520-92-8	17.7	35.3	35.3	88.3	Zr concentration limits
3283	Zirconium fluoride	7783-64-4	9.17	18.3	18.3	45.8	Zr concentration limits

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
3284	Zirconium hydride	7704-99-6	5.11	10.2	25.6	25.6	Zr concentration limits
3285	Zirconium hydroxide	14475-63-9	8.73	17.5	17.5	43.6	Zr concentration limits
3286	Zirconium nitrate	13746-89-9	18.6	37.2	37.2	93	Zr concentration limits
3287	Zirconium nitride	25658-42-8	5.77	11.5	11.5	28.8	Zr concentration limits
3288	Zirconium nitrite	z-0088	7.52	15	15	37.6	Zr concentration limits
3289	Zirconium oxide	1314-23-4	6.75	13.5	13.5	33.8	Zr concentration limits
3290	Zirconium oxynitrate hydrate	14985-18-3	13.7	27.4	27.4	68.5	Zr concentration limits
3291	Zirconium phosphide	12037-80-8	8.4	16.8	16.8	42	Zr concentration limits
3292	Zirconium potassium fluoride; (Potassium fluorozirconate)	16923-95-8	37.3	149	149	373	Zr concentration limits
3293	Zirconium silane	z-0089	8.08	16.2	16.2	40.4	Zr concentration limits
3294	Zirconium silicate; (Zirconium silicon oxide; Zircon))	10101-52-7	10.3	20.5	51.3	51.3	Zr concentration limits

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
3295	Zirconium sulfate tetrahydrate	14644-61-2	19.5	39	39	97.4	Zr concentration limits
3296	Zirconyl chloride; (Zirconium oxychloride)	7699-43-6	9.76	19.5	97.6	97.6	Zr concentration limits.
3297	Zirconyl nitrate; (Bis(nitrato-o)oxozirconium)	13826-66-9	12.7	25.3	25.3	63.4	Zr concentration limits
3298	Zonyl fsn fluorosurfactant	65545-80-4	60	150	500	500	Rat oral LD50.
3299	zzAcrylic latex	z-0090	10	30	50	250	
3300	zzAlumination 301	z-0091	10	30	50	250	
3301	zzHydranal coulomat / AG	z-0092	10	30	50	250	
3302	zzHydrocarbon polymer	z-0093	10	30	50	250	
3303	zzHydrocount(R), LSC cocktail	z-0094	10	30	50	250	
3304	zzIconol(R)	z-0095	10	30	50	250	
3305	zzMachine coolant 1	z-0096	10	30	50	250	

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Table 4: Protective Action Criteria (PAC) Rev 23 (mg/m³) based on applicable AEGLs, ERPGs, or TEELs (chemicals listed in alphabetical order)

No.	Chemical Name	CAS RN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)				Source of PACs
			TEEL-0	PAC-1	PAC-2	PAC-3	
3306	zzMonophase- S	z-0097	10	30	50	250	
3307	zzMornar	z-0098	10	30	50	250	
3308	zzOpti-Fluor; (Alkyl benzene blend, 3% tributylphosphate)	z-0099	7.5	25	37.5	250	
3309	zzPaint solvent	z-0100	10	10	10	10	
3310	zzPropanol (-2) aluminum derivative	z-0101	2	6	10	50	

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