Table 4: Protective Action Criteria (PAC) Rev 24A in mass per unit volume (mg/m^3), based on applicable AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

PAC Rev 24A – May 2009

Table 4 presents an alphabetical listing of the chemicals in the PAC data set and provides Chemical Abstract Service Registry Numbers (CASRNs), PAC data, and technical information on the source of the PAC values. Table 4 provides PAC values for TEEL-0, PAC-1, PAC-2, and PAC-3 in units of mass per unit volume, with the ppm to mg/m^3 conversion (carried out at 25 ºC and 760 mm Hg) 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 Name	The common name of the chemical.
CASRN	The Chemical Abstract Service Registry Number for this chemical.
TEEL-0	This is the threshold concentration below which most people will experience no appreciable risk of health effects. This PAC is always based on TEEL-0 because AEGL-0 or ERPG-0 values do not exist.
PAC-1	Based on the applicable AEGL-1, ERPG-1, or TEEL-1 value.
PAC-2	Based on the applicable AEGL-2, ERPG-2, or TEEL-2 value.
PAC-3	Based on the applicable AEGL-3, ERPG-3, or TEEL-3 value.
Source of PACs: TEEL-0, PAC-1, PAC-2, PAC-3	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, CASRN, and actual values displayed in a **bolded and larger font**. Chemicals for which **ERPGs** are available, but no AEGLs, have their chemical name and CASRN displayed in a **bolded** font. Chemicals for which TEELs are available, but no AEGLs or ERPGs, have their chemical name and CASRN 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 ≤ PAC-1 ≤ PAC-2 ≤ PAC-3.

- The most recent available references 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 the *Guide to Occupational Exposure Values – 2008*, compiled by the American Conference of Governmental Industrial Hygienists.

- For particulate materials, limits used (in mg/m^3) 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/m^3. 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 Source of PACs Column 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 PAC values presented in these tables are toxicity-based. In order to alert users as to the potential for other 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.

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 information on the chemicals presented here is provided in PAC Tables 1, 2, and 3. Definitions for AEGLs, ERPGs, and TEELs are provided in the Introduction to PAC Tables 2 and 3.

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

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1	Acacia; (Gum Arabic)	9000-01-5	200	500	500	500	TEEL-2/21, TEEL-2/7, rat oral TDlo. Rat oral LD50 min.
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	1.5	500	Rat ip LD50, rat TClo
4	**Acetaldehyde**	**75-07-0**	40	**81**	**486**	**1,510**	TLV-C, **AEGL-1, AEGL-2, AEGL-3**
5	Acetamide	60-35-5	25	75	500	500	PAC-2/21, PAC-2/7, rabbit oral TDlo, rat oral LD50
6	Acetanilide	103-84-4	0.4	1	7.5	50	Human oral TDlo, human oral LD lo
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 LD lo.
11	Acetic acid, manganese(2+) salt, tetrahydrate	6156-78-1	0.892	2.68	22.3	500	Mn concentration limits.
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**	2.09	**2.09**	**62.6**	**417**	PAC-1, **ERPG-1, ERPG-2, ERPG-3.**
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

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
16	Acetone-d6	666-52-4	500	500	7,500	15,000	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.
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 TDlo, 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	Acrylamide, N,N'-methylenebisacrylamide copolymer	25034-58-6	10	30	50	250	Used PNOS default

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
31	**Acrylic acid**	**79-10-7**	4.42	**4.42**	**135**	**530**	AEGL-1, **AEGL-1, AEGL-2, AEGL-3**
32	Acrylic acid polymers; (Acrylic polymer or resin)	9003-01-4	10	30	200	500	Rat oral LD50
33	**Acrylonitrile**	**107-13-1**	4	**22**	**76**	**163**	PEL-TWA,**ERPG-1, ERPG-2, ERPG-3**
34	Acrylyl chloride; (Acryloyl chloride)	814-68-6	0.15	0.4	0.75	35	LOC, mouse LC50
35	**Adamsite; (Phenarsine chloride)**	**578-94-9**	0.016	**0.016**	**2.6**	**6.40**	AEGL-1, **AEGL-1, AEGL-2, AEGL-3.**
36	Adipic acid	124-04-9	5	5	5	125	TLV-TWA, rat oral TDlo, rat ip LD50
37	Adipic acid-TDI	68609-57-4	10	30	50	250	Used PNOS default.
38	Adiponitrile	111-69-3	7.5	15	15	750	TLV-TWA, LOC, rat 240 min LC50
39	Aerosol, A-102; (Poly(oxy-1,2-ethanediyl), alpha-(3-carboxy-1-oxo-3-sulfopropyl)-omega-(dodecyloxy)-, -disodium salt)	39354-45-5	125	400	500	500	Rat oral LD50.
40	Agar	9002-18-0	500	500	500	500	Rat oral LD50, rat 4 week oral TDlo
41	Agarose, type VII (low gelling temperature)	9012-36-6	10	30	50	250	PNOS TLV-TWA
42	Alamine 336	68814-95-9	20	60	500	500	Rat LD50.
43	Albumin (bovine)	9048-46-8	150	500	500	500	Rat iv 90 day TDlo, rat iv LDlo
44	Alcohol oxidase	9073-63-6	10	30	50	250	PNOS default.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
45	Alcohols, C6-C12 (N.O.S.)	68603-15-6	10	30	50	250	Default TLV-TWA for chemical class
46	Aldrin; (1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,8a-hexahydro-1,4-endo,exo-5,8-dimethanonaphthalene)	309-00-2	0.25	0.25	10	25	PEL-TWA, LOC, IDLH.
47	Aldrithiol-2: (2,2'-Dithiodipyridene)	2127-03-9	10	30	50	250	Used PNOS default.
48	Aliquat 336; (Adogen 464; Quaternary ammonium compounds, tri(C8-10)-alkylmethyl-, chlorides)	63393-96-4	30	75	500	500	Rat LClo
49	Alizarin; (1,2-Dihydroxyanthraquinone; Turkey red oil)	72-48-0	1.25	4	25	125	Wild bird oral LD50.
50	Alizarine Red S, Monohydrate; (Sodium alizarin-3-sulfonate)	130-22-3	0.6	1.5	12.5	60	Mouse intravenous LD50.
51	Alkanes, C4-12-	68333-81-3	1,250	1,500	1,500	7,500	Octane concentration limits.
52	Alkenyl dimethylethyl ammonium bromide; (Aliphatic hydrocarbon)	z-0108	2	6	40	200	Rat oral LD50
53	Alkyl benzenes (C8-C9)	z-0109	10	30	50	250	Default TLV-TWA for chemical class
54	Alkyl dimethylbenzyl ammonium chloride; (Benzalkonium chloride)	8001-54-5	7.5	20	100	100	Women oral TDlo, rat oral LD50
55	Alkylamines	63231-48-1	10	30	50	250	Default TLV-TWA for chemical class
56	Alkylbenzene (C10-C16)	68648-87-3	10	30	50	500	PNOS TLV-TWA, rabbit skin LDlo
57	Allene; (1,2-Propadiene)	463-49-0	60	200	1,250	6,000	Default LC50 based on HR
58	**Allyl alcohol**	**107-18-6**	4	**4.99**	**9.97**	**47.5**	PEL-TWA, **AEGL-1, AEGL-2, AEGL-3**

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
59	Allyl Bromide; (3-Bromopropene)	106-95-6	20	60	400	2,000	Rat LC50
60	**Allyl chloride**	**107-05-1**	3	**8.76**	**169**	**438**	PEL-TWA, **AEGL-1, AEGL-2, AEGL-3.**
61	**Allyl chlorocarbonate**	**2937-50-0**	0.15	0.5	**3.45**	**10.3**	AEGL-2/21, AEGL-2/7, **AEGL-2, AEGL-3.**
62	Allyl isothiocyanate; (Mustard oil)	57-06-7	1.25	4	10	50	WEEL-STEL, Rat LD50.
63	**Allylamine**	**107-11-9**	0.3	**0.98**	**7.7**	**42**	AEGL-1/3, **AEGL-1, AEGL-2, AEGL-3**
64	Allylmagnesium bromide	1730-25-2	10	30	50	250	PNOS default used.
65	**Allyltrichlorosilane**	**107-37-9**	1.5	**4.3**	**52.4**	**237**	AEGL-1/3, **AEGL-1, AEGL-2, AEGL-3.**
66	Alpha,alpha,4-trimethyl-3-cyclohexene-1-methanol, (S)-; (alpha-Terpineol)	10482-56-1	125	350	500	500	Rat oral TDlo and LD50.
67	Alpha-hydroxybenzeneacetic acid, (+-)-; (DL-mandelic acid)	611-72-3	15	50	350	500	Normal Mandelic acid rat oral LD50.
68	Aluminon	569-58-4	0.0004	0.0013	0.0075	500	Human male 60 day repro. TDlo, rat oral LD50
69	Aluminum	7429-90-5	15	15	15	75	TWA concentration limits for Al total dust
70	Aluminum acetate, basic	7360-44-3	4.45	13.3	22.2	100	Aluminum soluble salts TLV-TWA.
71	Aluminum carbide	1299-86-1	1.33	4	6.67	35	TWA concentration limits for Al soluble salts
72	Aluminum chloride	7446-70-0	4.94	7.5	60	500	TLV-TWA Al soluble salts, rat 60 day oral TDlo, rat oral LD50
73	Aluminum chloride hexahydrate	7784-13-6	8.95	25	150	500	TLV-TWA Al soluble salts, rat oral LD50

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
74	Aluminum fluoride	7784-18-1	3.11	3.11	7.5	40	TLV-TWA Al soluble salts, rat oral 28 day TDlo, rat oral LD50
75	Aluminum grey LB; (Acid black 60)	12218-95-0	8.44	25.3	42.2	422	Concentration limits for Cr III compounds.
76	Aluminum hexafluorosilicate	17099-70-6	3.51	10.5	17.6	351	PEL-TWA and IDLH for fluorides
77	Aluminum hydroxide	21645-51-2	1	3	125	125	MAK-TWA concentration limits,child 4 day oral TDlo, rat ip LDlo
78	Aluminum oxide hydrate	1333-84-2	15	15	15	75	Alumina concentration limits.
79	Aluminum oxide; (Alumina)	1344-28-1	1.5	1.5	15	25	PEL-TWA, 60 min EEGL, 30 min EEGL.
80	Aluminum phosphate; (Phosphoric acid, aluminum salt (1:1), solution)	7784-30-7	4.52	13.56	500	500	TLV-TWA Al soluble salts, rat oral LDlo
81	**Aluminum phosphide**	**20859-73-8**	2	2	**4.74**	**8.53**	TLV-TWA, TEEL-0, **AEGL-2, AEGL-3.**
82	Aluminum potassium sulfate	10043-67-1	9.57	28.7	47.8	100	TLV-TWA Al soluble salts
83	Aluminum potassium sulfate, dodecahydrate	7784-24-9	17.6	52.7	125	500	TLV-TWA Al concentration limits
84	Aluminum sulfate	10043-01-3	6.34	19	31.7	500	TLV-TWA Al soluble salts concentration limits
85	Aluminum tris(dihydrogen phosphate); (Phosphoric acid, aluminum salt (3:1)	13530-50-2	11.9	35.7	60	300	Al soluble salts TLV-TWA.
86	Aluminum yellow 4A; (Acid yellow 99)	10343-58-5	4.77	28.6	50	239	Concentration limits for Cr III compounds.
87	Aluminum(III) isopropylate	555-31-7	7.57	22.7	37.9	500	Al soluble salts TLV-TWA, rat oral LD50.
88	Aluminum(III) nitrate (1:3)	13473-90-0	7.89	23.67	350	500	TLV-TWA Al soluble salts, rat oral LD50

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
89	Aluminum(III) nitrate nonahydrate (1:3:9)	7784-27-2	13.9	20	150	500	TLV-TWA Al soluble salts, rat oral LD50
90	Aluminum(III) silicate (2:1); (Kyanite; Oil-dri)	1302-76-7	3	9.01	75	400	TLV-TWA Al concentration limits
91	Amberlite IR-120(PLUS) ion-exchange resin	78922-04-0	10	30	50	200	PNOS TLV-TWA, Amberlite-LA-1 rat ip LD50
92	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.
93	Amberlite IRA-400(Cl); (Amberlite IRA-400, ion-exchange resin)	9002-24-8	10	30	50	250	Used PNOS default.
94	Amberlite IRA-400(CL); (Ion exchange resin)	122560-63-8	10	30	50	250	Used PNOS default.
95	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
96	Amberlite XAD-16, -7, -4 resin	104219-63-8	10	30	50	200	PNOS TLV-TWA, Amberlite-LA-1 rat ip LD50
97	Amberlite XAD-2 resin, purified	9060-05-3	10	30	50	200	PNOS TLV-TWA, Amberlite-LA-1 rat ip LD50
98	Amberlite XAD-7HP	37380-43-1	10	30	50	200	PNOS TLV-TWA, Amberlite-LA-1 rat ip LD50
99	Amberlyst 15 ion-exchange resin	9037-24-5	10	30	50	250	PNOS TLV-TWA
100	Amino-1,3-naphthalenedisulfonic acid, 7-	86-65-7	3.5	10	75	400	Mouse 8W ip TDlo
101	Amino-1-propanol, 3-	156-87-6	0.015	0.04	0.3	500	Rat oral LD50
102	Amino-2-(hydroxymethyl)-1,3-propanediol, 2-, acetate salt; (Trizma acetate)	6850-28-8	25	75	500	500	Rat oral LD50.
103	Amino-2-methyl-2-propanol, 1-	2854-16-2	10	30	200	500	Mouse oral LD50

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
104	Amino-4,6-dinitrotoluene, 2-	35572-78-2	6	15	125	500	Rat oral LD50
105	Aminoacetaldehyde diethyl acetal; (2,2-diethoxyethylamine)	645-36-3	7.5	25	150	500	Estimated rat oral LD50.
106	Aminoacetaldehyde dimethyl acetal; (2,2-dimethoxyethylamine)	22483-09-6	10	30	50	250	PNOS default used.
107	Aminoanthraquinone, 2-	117-79-3	7.5	25	150	500	Rat 78W ip TDlo, rat ip LD50
108	Aminobenzoic acid, p-	150-13-0	5	15	100	500	WEEL-TWA, Rat 22 day TDlo preg, rat oral LD50.
109	Aminobutyl)diethoxymethylsilane, (4-	3037-72-7	2	6	45	45	LOC, rat sk LD50
110	Aminodiphenyl, p-	92-67-1	0.5	1.5	10	200	Rat 48W oral TDlo, rat oral LD50
111	Aminoethoxy)ethanol, 2(2-	929-06-6	12.5	35	250	500	Rat oral LD50.
112	Aminoethyl)diphenylborinic acid, o-(2-	524-95-8	0.4	1.25	10	50	Mouse iv LD50
113	Aminoethylethanolamine	111-41-1	12.5	35	250	500	Rat oral LD50.
114	Aminoethylpiperazine, N-	140-31-8	2.5	7.5	50	500	Rat male 28D pre TDlo, rat oral LD50
115	Aminoheptane, 3-; (3-Heptylamine)	28292-42-4	0.3	0.75	6	30	Mouse ip LD50
116	Aminoiminomethyl)urea sulfate(2:1), (	591-01-5	10	30	50	250	Used PNOS default.
117	Aminophenol, 2-; (Aminophenol, o-)	95-55-6	0.5	1.5	10	500	Ham ip TDlo, rat oral LD50
118	Aminophenol, m-	591-27-5	1	3	20	125	Rat 17 week TClo, rat oral LD50.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
119	Aminopropiophenone, 4-	70-69-9	1	3.5	5.6	75	LOC, rat oral LD50
120	Aminopropylmethyldiethoxysilane, 3-	3179-76-8	15	50	400	500	Rat oral LD50.
121	Aminopropyltriehoxysilane; (3-(Triethoxysilyl)-1-propanamine)	919-30-2	6	15	125	500	Rat TClo, rat LD50.
122	Aminopterin; (Aminopteridine)	54-62-6	5	15	25	25	LOC, mouse oral LD50
123	Aminopyrazine	5049-61-6	2	6	10	20	**SAR**
124	Aminopyridine, 4-; (4-Pyridinamine)	504-24-5	4	12.5	20	20	LOC, human LDlo
125	Amiton oxalate	3734-97-2	0.6	1.5	3	3	LOC, rat oral LD50
126	Amiton; (O,O-Diethyl-S-(2-diethylaminoethyl) thiophosphate)	78-53-5	0.6	2	3.3	3.3	LOC, rat oral LD50
127	Amitrole	61-82-5	0.2	0.6	125	500	TLV-TWA, tox ratio, rat oral LD50
128	**Ammonia**	**7664-41-7**	15	**20.9**	**111**	**766**	TLV-TWA, **AEGL-1, AEGL-2, AEGL-3**
129	Ammonia-d3	13550-49-7	7.5	25	150	750	MW-adjusted ammonia ERPGs
130	Ammonium acetate	631-61-8	2.5	7.5	50	250	Rat ip LD50
131	Ammonium aluminum fluoride; (Triammonium hexafluoroaluminate)	7784-19-2	4.28	4.28	4.28	15	F PEL-TWA, mouse iv LD50
132	Ammonium benzoate	1863-63-4	3.5	10	75	350	Rat oral LD50
133	Ammonium bicarbonate	1066-33-7	2	6	40	200	Mouse iv LD50

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
134	Ammonium bisulfate; (Ammonium hydrogen sulfate)	7803-63-6	0.025	0.075	0.5	2.5	Rabbit 60 min. TClo
135	Ammonium bisulfite; (Ammonium hydrogen sulfite)	10192-30-0	10	10	10	10	TLV-TWA PNOS
136	Ammonium bromide	12124-97-9	10	35	200	500	Rat oral LD50.
137	Ammonium carbamate; (Carbamic acid, ammonium salt)	1111-78-0	0.3	1	6	35	Rat iv LD50
138	Ammonium carbonate	506-87-6	0.75	2.5	15	75	Mouse iv LD50
139	Ammonium chloride	12125-02-9	10	20	500	500	TLV-TWA & STEL, rat oral LD50
140	Ammonium chromate	7788-98-9	0.0146	0.438	7.5	43.9	Cr(VI) concentration limits
141	Ammonium citrate	7632-50-0	10	10	30	150	PNOS TLV-TWA, rat oral LD50
142	Ammonium citrate tribasic	3458-72-8	10	30	50	250	Used PNOS default.
143	Ammonium citrate, dibasic	3012-65-5	10	10	10	10	Used PNOS default.
144	Ammonium dichromate	7789-09-5	0.0121	0.363	7.5	36.4	Cr(VI) concentration limits
145	Ammonium dihydrogen phosphate; (Monoammonium phosphate)	7722-76-1	15	50	350	500	Rat oral LD50, based on other ammonium phosphates
146	Ammonium ferrous sulfate hexahydrate	7783-85-9	3.19	9.56	15.9	500	Fe concentration limits, rat oral LD50
147	Ammonium fluoborate	13826-83-0	3.45	3.45	6	20	F TLV-TWA, human TClo and LClo, ex HSDB
148	Ammonium fluoride	12125-01-8	4.88	4.88	4.88	12.5	F TLV-TWA, , rat TClo, rat ip LD50

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
149	Ammonium formate	540-69-2	10	30	50	500	PNOS TLV-TWA, mouse oral LD50
150	Ammonium hexachlorohydrate (III)	z-0001	10	30	50	250	Used PNOS default.
151	Ammonium hexafluorosilicate; (Ammonium silicofluoride)	16919-19-0	3.91	11.7	20	30	F concentration limits, mouse oral LD50
152	Ammonium hydrogen fluoride; (Ammonium bifluoride)	1341-49-7	3.75	3.75	3.75	3.75	F concentration limits
153	Ammonium hydrogen oxalate hemihydrate	37541-72-3	7.5	25	150	500	Estimated rat oral LD50.
154	Ammonium hydroxide	1336-21-6	2.5	7.5	60	150	Human TClo and LClo.
155	Ammonium iodide	12027-06-4	4	12.5	75	400	Human oral LDlo ex HSDB
156	Ammonium lactate	515-98-0	10	35	200	500	PAC-2/21, PAC-2/7, cattle oral TDlo, PAC-2*5.
157	Ammonium lignin sulfonate	8061-53-8	10	30	50	250	Used PNOS default.
158	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.
159	Ammonium molybdate; (Diammonium molybdate)	13106-76-8	10.2	30.7	51.1	500	Mo TLV-TWA, IDLH, as Mo.
160	Ammonium molybdophosphate	12026-66-3	8.15	24.4	40.7	200	Mo TLV-TWA; IDLH not used
161	Ammonium nickel sulfate	15699-18-0	4.89	4.89	5	48.9	Nickel concentration limits
162	Ammonium nitrate	6484-52-2	10	10	10	500	PNOS, rat oral TDlo, rat oral LD50
163	Ammonium oxalate monohydrate	5972-73-6	1.5	4	30	150	Rat oral LD50.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
164	Ammonium oxalate; (Diammonium oxalate monohydrate)	6009-70-7	1.5	4	30	150	Rat oral LD50.
165	Ammonium oxalate; (Ethanedioic acid, diammonium salt)	1113-38-8	0.15	0.5	4	20	Rat oral TDlo.
166	Ammonium pentaborate	12007-89-5	10	30	50	250	Used PNOS default.
167	Ammonium perchlorate	7790-98-9	5	15	100	500	Rabbit oral TDlo, rat oral LD50.
168	Ammonium permanganate	13446-10-1	0.2	3	5	500	Manganese concentration limits.
169	Ammonium persulfate	7727-54-0	0.1	0.3	20	100	TLV-TWA, rat ip LD50.
170	Ammonium phosphate dibasic	7783-28-0	10	30	50	250	Used PNOS default.
171	Ammonium picrate	131-74-8	10	30	50	250	Used PNOS default.
172	Ammonium polyacrylate	9003-03-6	10	30	50	250	Used PNOS default.
173	Ammonium sulfamate	7773-06-0	10	30	50	500	TLV-IWA, NH3 IDLH.
174	Ammonium sulfate	7783-20-2	40	125	500	500	Human oral TDlo, rat oral LD50.
175	Ammonium sulfide	12135-76-1	7.5	25	40	40	Human 30 min TClo, human 30 min LC lo.
176	Ammonium sulfite	10196-04-0	10	10	10	10	Used PNOS default.
177	Ammonium sulfite monohydrate	7783-11-1	10	30	50	250	PNOS default used, irritation ignored.
178	Ammonium tartrate	14307-43-8	10	10	10	10	Used PNOS default.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
179	Ammonium tartrate; (Diammonium tartrate)	3164-29-2	1.5	5	40	200	Rat subcutaneous LD50.
180	Ammonium thiocyanate	1762-95-4	12.5	35	200	200	Human oral TDlo, mouse oral LD50.
181	Ammonium thiosulfate; (Ammonium hyposulfite)	7783-18-8	10	30	50	500	PNOS, rat 240 min LG lo.
182	Ammonium tungstate(VI)	11120-25-5	1.38	4.14	6.9	6.9	TLV-TWA, TLV-STEL.
183	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.
184	Ammonium, hexadecyltrimethyl-, bromide; (Hexadecyltrimethylammonium bromide)	57-09-0	0.035	0.1	0.75	150	Mousw ip TDlo, rat oral LD50.
185	Ammonium, tetraethyl, bromide; (Tetraethyl ammonium bromide)	71-91-0	1.25	4	30	40	PAC-2/21, PAC-2/7, mouse ip TDlo, rat ip LD50.
186	Ammonium, tetramethyl, bromide; (Tetramethylammonium bromide)	64-20-0	0.2	0.6	4	20	Rat oral LD50.
187	Amosite	12172-73-5	0.005	0.05	40	200	PEL-TWA, PEL-STEL, rat TClo.
188	Amphetamine; (Benzedrine)	300-62-9	4	12.5	20	20	LOC, human LD lo.
189	Amyl acetate	628-63-7	500	500	500	5,000	PEL-TWA, TLV-STEL, human TClo, IDLH.
190	Amyl alcohol; (1-Pentanol)	71-41-0	350	350	350	350	WEEL-TWA. Human TClo, human oral LD lo.
191	Amyl methyl ether, tert-; (TAME)	994-05-8	75	600	600	600	TLV-TWA, rat 360 min TClo preg, rat LD50 minimum.
192	Amylamine, n-; (1-Pentylamine)	110-58-7	0.3	0.75	6	30	Rat ip LD lo.
193	**Amyltrichlorosilane; (Pentyltrichlorosilane)**	**107-72-2**	1.5	**5.04**	**61.3**	**277**	AEGL-1/3, **AEGL-1, AEGL-2, AEGL-3.**

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
194	Anhydrone; (Magnesium perchlorate)	10034-81-8	6	15	125	500	Rat oral LD50.
195	**Aniline**	**62-53-3**	20	**30.5**	**45.7**	**76.1**	PEL-TWA, **AEGL-1, AEGL-2, AEGL-3**
196	Anisidine, o-	90-04-0	0.5	1.5	2.5	50	PEL-TWA, IDLH.
197	Anisidine, p-	104-94-9	0.5	1.5	2.5	50	PEL-TWA, IDLH.
198	Anisole; (Anisole anhydrous; Methoxybenzene)	100-66-3	4	12.5	75	400	Mouse 120 min LC50.
199	Anthracene	120-12-7	1.5	4	30	150	Rat oral TDlo, mouse ip LD50.
200	Anthracenedisulfonic acid, 4,8-diamino-9,10-dihydro-1,5-dihydroxy-9,10-dioxo, disodium salt, 2,6-; (Acid Blue 45; Alizarine Blue)	2861-02-1	12.5	35	250	500	Mouse oral LD50.
201	Anthranilic acid	118-92-3	4	12.5	100	500	Mouse preg sc TDlo, rat oral LD50
202	Anthraquinone	84-65-1	10	30	50	500	PNOS, rat 240 min LC50
203	Antimony	7440-36-0	0.5	1.5	20	50	PEL-TWA, TEEL-0*3. human TClo, IDLH
204	Antimony oxide	1309-64-4	0.599	1.8	4	59.9	As Sb, PEL-TWA, IDLH
205	Antimony pentachloride	7647-18-9	1.23	3.68	6.14	123	As Sb, PEL-TWA, IDLH
206	Antimony pentafluoride	7783-70-2	0.89	0.89	2.7	89	As Sb, PEL-TWA, LOC, IDLH
207	Antimony pentasulfide	1315-04-4	0.829	2.49	4.15	82.9	As Sb, PEL-TWA, IDLH
208	Antimony potassium tartrate trihydrate	28300-74-5	1.31	3.92	6.53	131	As Sb, PEL-TWA, IDLH

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
209	Antimony trichloride	10025-91-9	0.937	0.937	0.937	93.7	As Sb, PEL-TWA, IDLH
210	Antimony trifluoride	7783-56-4	0.734	0.734	4	73.4	As Sb, PEL-TWA, IDLH
211	Antimycin A	1397-94-0	0.35	1	1.8	12.5	LOC, rat oral LD50
212	Antioxidant G-16 (most toxic antiox)	61373-87-3	10	30	50	125	PNOS, mouse ip LD50.
213	Aqua regia (75% hydrochloric + 25% nitric acid)	8007-56-5	3.5	6	75	400	HCl and HNO3 concentration limits
214	Arginine, L-	74-79-3	10	30	50	250	Used PNOS default.
215	Argon	7440-37-1a	100,000	100,000	350,000	600,000	Simple asphyxiant
216	Argon, cryogenic	7440-37-1b	100,000	100,000	350,000	600,000	Simple asphyxiant
217	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.
218	Aromatic isocyanate mixture "SWD 305A"	z-0111	1.25	4	20	125	Calculated from mixture ingredients.
219	Arsenic	7440-38-2	0.01	0.35	2	350	PEL-TWA, PAC-2/7, child oral TDlo, rat oral LD50.
220	Arsenic acid	1327-52-2	0.0189	0.0568	3	55	PEL-TWA, IDLH, as As.
221	Arsenic acid; (o-arsenic acid)	7778-39-4	0.0189	0.4	3	9.5	PEL-TWA, IDLH, as As.
222	Arsenic pentoxide	1303-28-2	0.0153	1	7.7	7.7	PEL-TWA, IDLH, as As, LOC.
223	**Arsenic trioxide**	**1327-53-3**	0.0132	0.4	**3.0**	**9.1**	PEL-TWA, AEGL-2/7, **AEGL-2, AEGL-3.**

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Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
224	Arsenious acid	13464-58-9	0.0168	0.2	1.4	8.41	PEL-TWA, IDLH, as As, LOC.
225	Arsenous trichloride	7784-34-1	0.15	0.5	10	75	PEL-TWA, IDLH, as As, LOC.
226	**Arsine**	**7784-42-1**	0.15	0.15	**0.542**	**1.59**	PEL-TWA, PEL-TWA, **AEGL-2, AEGL-3**
227	Asbestos	1332-21-4	0.005	0.075	0.5	2.5	PEL-TWA, PEL-C
228	Asbestos (Chrysotile)	12001-29-5	0.005	7.5	50	250	PEL-TWA, PEL-C, rat ip LD LO.
229	Ascaridole	512-85-6	0.75	2.5	20	75	Mouse skin TDlo, rat oral LD50.
230	Ascarite; (Asbestos, 1332-21-4)	81133-20-2	0.005	0.5	0.5	2.5	Used asbestos limits
231	Ascorbic acid	50-81-7	60	200	500	500	Human iv TDlo, woman iv LD lo.
232	Asphalt; (Bitumen)	8052-42-4a	0.5	0.75	5	25	TLV-TWA, REL-C
233	Auramine; (4.4'-(Imidocarbonyl)bis(N,N-dimethylamine) monohydrochloride)	2465-27-2	2.5	7.5	60	60	Rat oral 87 week TDlo, rat ip LD50
234	Azaserine; (L-Serine, diazoacetate (ester))	115-02-6	0.0125	0.04	0.25	75	Pregnant rat oral TDlo, rat oral LD50.
235	Azinphos ethyl; (Ethyl guthion)	2642-71-9	0.75	2	3.9	150	LOC, rat 240 min LC50.
236	Azinphos methyl; (GuthionR)	86-50-0	0.2	0.6	0.7	10	PEL-TWA, LOC, rat 60 min LC50.
237	Aziridine homopolymer; (Ethylenimine homopolyer; Poly(ethyleneimine)	9002-98-6	5	15	100	500	Rat oral LD50.
238	Azobis(2-methylpropionitrile), 2,2'-	78-67-1	7.5	25	150	300	Rat oral TDlo, rat oral LD50.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
239	Azodicarbamide; (Azodicarbonamide)	123-77-3	40	125	200	200	Rat TClo, rat ip LD50.
240	Bacto peptone	51142-18-8	10	30	50	250	Used PNOS default.
241	Barbituric acid	67-52-7	2	6	40	200	Mouse ip LD50.
242	Barium	7440-39-3	0.5	1.5	50	250	PEL-TWA, rat oral TDlo.
243	Barium acetate; (Barium acetate anhydrous)	543-80-6	0.93	2.79	4.65	93	Ba sol compounds as Ba: PEL-TWA, IDLH.
244	Barium carbonate	513-77-9	0.3	0.75	6	500	Human oral TDlo, human oral LD lo.
245	Barium chloride	10361-37-2	0.5	1.5	15	50	Ba sol compounds as Ba: PEL-TWA, IDLH.
246	Barium chloride dihydrate	10326-27-9	0.889	2.67	4.45	88.9	Ba sol compounds as Ba: PEL-TWA, IDLH.
247	Barium chromate	10294-40-3	0.0246	0.737	1.25	73.7	Chromium(VI) concentration limits.
248	Barium cyanide	542-62-1	0.69	2.07	3.5	69	Ba sol compounds as Ba: PEL-TWA, IDLH.
249	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.
250	Barium diphenylamine sulfonate	6211-24-1	2.31	6.92	11.5	231	Ba sol compounds as Ba: PEL-TWA, IDLH.
251	Barium fluoride	7787-32-8	0.638	1.92	15	100	Ba sol compounds as Ba: PEL-TWA.
252	Barium hydrogen phosphate; (Barium phosphate dibasic)	10048-98-3	0.849	2.55	4.25	20	Ba sol compounds as Ba: PEL-TWA.
253	Barium hydroxide	17194-00-2	0.624	1.87	3.12	62.4	Ba sol compounds as Ba: PEL-TWA.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
254	Barium hydroxide octahydrate	12230-71-6	1.15	3	20	115	Ba sol compounds as Ba: PEL-TWA, IDLH.
255	Barium metaborate	13701-59-2	10	30	200	500	Rat oral TDlo.
256	Barium nitrate	10022-31-8	0.952	2.5	20	95.2	Ba sol compounds as Ba: PEL-TWA, IDLH.
257	Barium nitrite	13465-94-6	0.835	2.5	4.17	20	Ba sol compounds as Ba: PEL-TWA.
258	Barium oxide	1304-28-5	0.558	1.67	2.79	55.8	Ba sol compounds as Ba: PEL-TWA, IDLH.
259	Barium permanganate	7787-36-2	1.37	20.5	34.1	34.1	Mn cmpnd conc limits as Mn: PEL-TWA, human oral LD50.
260	Barium phosphate	13466-20-1	0.788	2.36	4	20	Ba sol compounds as Ba: PEL-TWA.
261	Barium stearate	6865-35-6	10	30	200	500	Rat oral LD50
262	Barium sulfate	7727-43-7	15	30	350	500	PEL-TWA, rat implant TDlo.
263	Basic Green 4; (Aizen malachite green)	569-64-2	0.35	1	6	35	Mouse oral LD50.
264	Basic Red 1; (Rhodamine 6G extra base)	989-38-8	0.025	0.075	0.6	2.5	Mouse ip TDlo, mouse ip LD50.
265	Bathophenanthroline	1662-01-7	75	250	500	500	Rat oral LD50 based on assumed HHR = 1.
266	Bentonite; (Clay absorbent)	1302-78-9	10	30	50	50	PNOS, mouse oral TDlo, rat iv LD50.
267	Benz(e)acephenanthrylene; (Benzo(b)fluoroanthene)	205-99-2	0.2	0.6	4	20	Rat implant TDlo.
268	Benzal chloride	98-87-3	0.4	1.25	2.3	500	LOC, rat oral LD50.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
269	Benzaldehyde	100-52-7	7.5	15	15	600	WEEL-TWA, -STEL, human TClo, human LD lo.
270	Benzamide	55-21-0	3	10	60	350	Rat ip LD50.
271	Benzenamine, sulfate (2:1)	542-16-5	10	30	50	250	Used PNOS default.
272	**Benzene**	**71-43-2**	3	**166**	**2,550**	**12,800**	PEL-TWA, **AEGL-1, AEGL-2, AEGL-3**
273	Benzene hexachloride; (Hexachlorocyclohexane, mixed isomers)	608-73-1	0.15	0.5	4	300	PAC-2/21, Pac-2/7, human TClo, rat 240 min LC50.
274	Benzene, 1-(chloromethyl)-4-nitro-; (p-Nitrobenzyl chloride)	100-14-1	5	15	28	125	LOC, rat oral LD50.
275	Benzenearsonic acid; (Phenylarsonic acid)	98-05-5	0.27	0.27	0.27	0.27	PEL-TWA as As, LOC, mouse oral LD50.
276	Benzene-d6; (Deuterated benzene)	1076-43-3	3.5	150	500	3,500	Benzene concentration limits used, but not AEGLs
277	Benzenesulfonic acid chloride; (Benzenesulfonyl chloride)	98-09-9	0.5	1.5	200	200	PEL-TWA as As, LOC, rat 60 min LC lo.
278	Benzenesulfonic acid, 4-chloro	98-66-8	2	6	40	200	Rat oral LD50 minimum.
279	Benzenesulfonic acid, 5-chloro-2	z-0114	10	30	50	250	Used PNOS default.
280	Benzenetetracarboxylic dianhydride, 1,2,4,5-	89-32-7	1.5	5	15	15	Rat oral 30 day TDlo, rat 240 min LC lo.
281	**Benzenethiol; (Thiophenol; Phenyl mercaptan)**	**108-98-5**	0.4	0.4	**2.39**	**7.21**	TLV-TWA, TLV-TWA, **AEGL-2, AEGL-3.**.
282	Benzidene	92-87-5	0.15	0.5	3.5	125	Human TClo, rat oral LD50.
283	Benzo(a)anthracene	56-55-3	0.1	0.3	2	15	Mouse skin TDlo, mouse iv LD lo.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
284	Benzo(a)pyrene; (Coal tar pitch volatiles)	50-32-8	0.2	0.6	15	80	PEL-TWA, IDLH, pregnant rat ip TDlo.
285	Benzo(ghi)perylene	191-24-2	10	30	50	250	Used PNOS default.
286	Benzo(k)fluoranthene	207-08-9	0.2	0.6	4	20	Rat implant TDlo.
287	Benzo-4,7,13,16,21,24-hexaoxa-1,10-diazabicyclo(8.8.8)hexacosane, 5,6-	31250-18-7	1.5	5	35	150	Estimated HHR and rat oral LD50.
288	Benzoic acid	65-85-0	4	12.5	75	400	Human oral LD lo.
289	Benzoic acid, sodium salt	532-32-1	100	350	500	500	Rat oral TDlo, rat oral LD50.
290	Benzoin oxime	441-38-3	0.6	1.5	12.5	60	Mouse ip LD50
291	**Benzonitrile**	**100-47-0**	4	12.5	**92.7**	**236**	AEGL-2/21, AEGL-2/7, **AEGL-2, AEGL-3.**
292	Benzophenone	119-61-9	0.5	1.5	350	500	WEEL-TWA, rat oral TDlo, mouse oral LD50.
293	Benzoquinone, p-; (Quinone)	106-51-4	0.4	1.25	2	100	PEL-TWA, IDLH, mouse skin TDlo.
294	Benzothiazole	95-16-9	5	15	100	150	Rat oral TDlo, rat oral LD50.
295	Benzotriazole	95-14-7	0.025	0.075	0.5	250	Rat oral 26 week TDlo, rat oral LD50.
296	Benzotrifluoride	98-08-8	6.41	15	125	500	As fluoride, PEL-TWA, IDLH.
297	**Benzoyl chloride**	**98-88-4**	0.5	**1.7**	**28.75**	**115**	ERPG-1/3, **ERPG-1, ERPG-2, ERPG-3.**
298	Benzoyl peroxide	94-36-0	5	5	12.5	500	PEL-TWA, IDLH, mouse skin TDlo.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
299	Benzyl acetate	140-11-4	60	60	60	150	TLV-TWA, human TClo, cat 480 min LC50.
300	Benzyl alcohol	100-51-6	40	250	600	600	WEEL-TWA, rat TDlo, rat 480 min LC lo.
301	Benzyl aminopurine, 6-; (6-Benzyladenine)	1214-39-7	5	15	100	500	Rat TDlo, rat LC50, 240 min assumed.
302	Benzyl benzoate	120-51-4	12.5	35	250	500	Rabbit 13 week skin TDlo, rat oral LD50.
303	**Benzyl chloride**	**100-44-7**	5.2	**5.2**	**53**	**260**	PEL-TWA, **ERPG-1, ERPG-2, ERPG-3.**
304	**Benzyl chloroformate; (Carbobenzoxy chloride)**	**501-53-1**	0.3	1	**6.76**	**20.2**	AEGL-2/21, AEGL-2/7, **AEGL-2, AEGL-3.**
305	Benzyl cyanide; (Phenylacetonitrile)	140-29-4	0.2	0.6	4.3	30	LOC, rat 120 min LC50.
306	Benzyl trichloride; (Trichloromethylbenzene)	98-07-7	0.35	1	7	25	LOC, rat 240 min LC50.
307	Benzylamine	100-46-9	2.5	7.5	50	250	Mouse ip LD50
308	Benzyldimethylamine; (Dimethylbenzylamine, N,N-; BDMA)	103-83-3	1	3	20	200	Rat TClo, rat 120 min LC50.
309	Benzyldimethyloctadecylammonium chloride; (Dimethyloctadecylbenzylammonium chloride)	122-19-0	5	15	100	500	Rat oral LD50.
310	Benzylmagnesium chloride	6921-34-2	1.5	5	35	150	Assumed HHR =3, used default rat oral LD50.
311	Benzyltrimethylammonium hydroxide; (Triton b)	100-85-6	0.1	0.35	2.5	12.5	Mouse subcutaneous LD lo.
312	**Beryllium**	**7440-41-7**	0.002	0.01	**0.025**	**0.1**	PEL-TWA, TLV-STEL, **ERPG-2, ERPG-3.**
313	Beryllium chloride	7787-47-5	0.0177	0.0443	0.0443	35.5	PEL-TWA, PEL-C, IDLH, as Be.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
314	Beryllium fluoride	7787-49-7	0.0104	0.0261	0.0261	20.9	PEL-TWA, PEL-C, IDLH, as Be.
315	Beryllium hydroxide	13327-32-7	0.0096	0.0239	0.239	19.1	PEL-TWA, PEL-C, IDLH, as Be.
316	Beryllium nitrate	13597-99-4	0.0295	0.0738	7.38	59	PEL-TWA, PEL-C, IDLH, as Be.
317	Beryllium oxide	1304-56-9	0.0056	0.0139	1.39	11.1	PEL-TWA, PEL-C, IDLH, as Be.
318	Betaine, anhydrous; (Glycine betaine)	107-43-7	40	125	500	500	Rat ip TDlo, mouse subcutaneous LD50.
319	Bicyclo(2.2.1)heptane-2-carbonitrile, 5-chloro-6-((((methylamino)carbonyl)oxy)imino)-, (lS-(1-alpha,2-beta,4-alpha,5-alpha,6E))-	15271-41-7	3.5	10	19	19	LOC, rat oral LD50.
320	Bioxirane, 2,2'-; (1,2:3,4-Diepoxybutane)	1464-53-5	0.15	0.5	3.5	35	LOC, rat 240 min. LC50
321	Biphenylol, 4-	92-69-3	10	35	60	60	Mouse sc TDlo, mouse oral LD50.
322	Biphenylol, sodium salt, 2-;	132-27-4	2.5	7.5	60	300	Pregnant mouse oral TDlo, rat oral LD50.
323	Bis(1,1-dimethylethyl)-4-ethylphenol, 2,6-	4130-42-1	4	12.5	75	400	LD50 estimated from CASRN = 128-37-0, 4-methylphenol
324	Bis(1,1-dimethylethyl)-4-methylphenol, 2,6-; (BHT (food grade); 2,6-Di-tert-butyl-p-cresol)	128-37-0	2	6	40	400	TLV-TWA, women oral TDlo, rat oral LD50.
325	Bis(1-methylethyl)benzene, 1,4-; (p- or 1,4-Diisopropylbenzene)	100-18-5	12.5	40	300	500	Mouse oral LD50.
326	Bis(1-methylethyl)benzene; (Diisopropylbenzene)	25321-09-9	5	15	100	500	Rat 240 min LClo
327	Bis(2,3-epoxypropoxy) butane, 1,4-	2425-79-8	30	100	500	500	Rat oral TDlo, rat oral LD50.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
328	Bis(2-butoxyethyl) ether; (Dibutyl carbitol; Diethylene glycol dibutyl ether)	112-73-2	50	150	1,000	1,500	Mouse oral TDlo, rat oral LD50.
329	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.
330	Bis(2-Chloroethoxy)ethane, 1,2-; (Triglycol dichloride)	112-26-5	1	3	20	100	Rat oral LD50.
331	**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**
332	Bis(2-chloroethylthio)ethane, 1,2-; (Sesquimustard)	3563-36-8	0.06	0.15	1.25	6	Human LC lo
333	Bis(2-chloroethylthio)methane	63869-13-6	0.05	0.15	1	5	Human LC lo estimated by comparison with Sesquimustard, 3563-36-8.
334	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.
335	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.
336	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.
337	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.
338	Bis(2-ethoxyethyl) ether; (Diethyl carbitol)	112-36-7	75	250	500	500	Pregnant mouse TDlo, rat oral LD50.
339	Bis(2-ethylhexyl) hydrogen phosphate	298-07-7	0.02	0.06	0.4	2	Rat oral LD50.
340	Bis(2-ethylhexyl) phenyl phosphate	16368-97-1	0.075	0.2	1.5	7.5	Rat 240 min LC lo.
341	Bis(2-hydroxyethyl)dodecanamide, N,N-	120-40-1	0.04	0.125	1	1,000	Rat oral TDlo, rat oral LD50.
342	Bis(2-methylstyryl)benzene, 4-; (1,4-Bis(2-(2-methylphenyl)ethenyl)benzene)	13280-61-0	10	30	50	250	Used PNOS default.

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Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
343	Bis(3-tert-butyl-4-hydroxy-6-methylphenyl) sulfide	96-69-5	15	30	300	500	PEL-TWA, rat oral TDlo, rat oral LD50.
344	Bis(chloromethyl)ketone; (1,3-Dichloroacetone)	534-07-6	0.125	0.4	2	2	LOC, rat 120 min LC50.
345	Bis(chloromethyl)oxetane, 3,3-	78-71-7	0.4	1.25	2	75	LOC, mouse 120 min LC50.
346	Bis(Dimethylamino)acridine, 3,6-; (Acridine orange)	494-38-2	0.4	1.25	7.5	40	Mouse sc LD50
347	Bis(trifluoromethyl)benzene, 1,3-	402-31-3	4.7	14.1	23.5	470	Fluoride concentration limits.
348	Bis(tris(hydroxymethyl)methylamino)propane, 1,3-; (Bis-tris propane)	64431-96-5	10	30	50	250	Used PNOS default.
349	Bis[(benzo-15-crown-5)-15-ylmethyl] pimelate	69271-98-3	10	30	50	250	Used PNOS default.
350	Bisbutenylenetetrahydrofurfural; (2,3,4,5-bis(2-butylene)tetrahydro-2-furaldehyde)	126-15-8	10	30	200	500	Rat oral LD50.
351	Bismuth	7440-69-9	1.5	5	40	200	Human LD lo.
352	Bismuth acetate	22306-37-2	10	30	50	250	Used PNOS default.
353	Bismuth germanate	12233-73-7	1.5	5	40	200	Human LD lo.
354	Bismuth hydroxide	10361-43-0	1	1	3	100	**SAR**
355	Bismuth hydroxide nitrate oxide; (White paint)	1304-85-4	7.5	20	150	500	Infant oral TDlo, infant oral LD lo.
356	Bismuth iodide	7787-64-6	1.5	5	35	150	Estimated rat oral LD50.
357	Bismuth nitrate	10361-44-1	1.25	4	25	500	Rat intratracheal TDlo, mouse intraperitoneal LD lo.

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Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
358	Bismuth oxide	1304-76-3	20	60	400	500	Rat oral LD50.
359	Bismuth oxychloride	7787-59-9	75	250	500	500	Rat oral LD50.
360	Bismuth(III) nitrate, pentahydrate	10035-06-0	2	6	40	500	Rat 240 min TClo, rat oral LD50.
361	Bisphenol A	80-05-7	5	15	100	500	Female rat ip nTDlo, rat oral LD50.
362	Bisphenol A diglycidyl ether	1675-54-3	1.25	3.5	6	6	Mouse skin TDlo, rat oral LD50.
363	Bitoscanate; (1,4-Phenylenediisothiocyanic acid)	4044-65-9	4	12.5	20	20	LOC, rat oral LD50.
364	BoBCalix; (Calix[4]arene-bis(t-octylbenzo-crown-b)	z-0110	10	30	50	250	PNOS TLV-TWA default used.
365	Borane methyl sulfide complex; (Methyl sulfide complex with borane (1:1))	13292-87-0	0.35	1	6	35	Rabbit skin LD lo.
366	Borane-tetrahydrofuran	14044-65-6	5	15	25	125	TWA based on borane compound toxicity range
367	Borate	14213-97-9	60	150	500	500	Minimum human oral LD50.
368	Boric acid	10043-35-3	2	6	100	125	TLV-TWA, human TDlo, human LD lo.
369	Boric acid, tributyl ester; (Tri-n-butyl borate)	688-74-4	7.5	25	150	750	Mouse oral LD50.
370	Boron	7440-42-8	2.5	7.5	50	250	Rat oral LD50.
371	Boron carbide	12069-32-8	10	30	50	250	Used PNOS default.
372	Boron nitride	10043-11-5	400	500	500	500	Rat LD lo minimum.

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Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
373	Boron oxide	1303-86-2	15	30	300	500	PEL-TWA, rat TClo, IDLH.
374	**Boron tribromide**	**10294-33-4**	1	**3.38**	**74.8**	**410**	AEGL-1/3, **AEGL-1, AEGL-2, AEGL-3.**
375	Boron trichloride	10294-34-5	0.5	1.5	10	12.5	LOC, rat 420 min LC lo.
376	**Boron trifluoride**	**7637-07-2**	0.75	**2.5**	**37**	**110**	AEGL-1/3, **AEGL-1, AEGL-2, AEGL-3.**
377	Boron trifluoride etherate	109-63-7	9.34	25	150	500	Fluoride concentration limits.
378	**Boron trifluoride-dimethyl ether**	**353-42-4**	0.75	**2.5**	**37**	**110**	AEGL-1/3, **AEGL-1, AEGL-2, AEGL-3.**
379	Botulinum toxin-A	93384-43-1	0.	0.	0.	0.	PAC-2/5, PAC-2*3/5, human subcutaneous TDlo,.mouse LD50,
380	Botulinum toxin-B	z-0117	0.	0.	0.	0.	PAC-2/5, PAC-2*3/5, mouse intramuscular TDlo, mouse intraperitoneal LD50
381	Botulinum toxin-F	z-0118	0.	0.	0.	0.	PAC-2/5, PAC-2*3/5, mouse intramuscular TDlo, mouse intraperitoneal LD50.
382	Botulinum, clostridium	z-0119	0.	0.	0.	0.	PAC-3/105, PAC-3/35, PAC-3/5, mouse intravenous LD50.
383	Brij-35; (alpha-Dodecyl-omega-hydroxypolyoxy-ethylene)	9002-92-0	0.15	0.5	3.5	400	PAC-2/21, PAC-2/7, rat intratracheal TDlo, rat oral LD50.
384	Brilliant blue	2650-18-2	0.06	0.06	0.06	0.06	Rat subcutaneous TDlo, human iv LD lo.
385	Bromadiolone	28772-56-7	0.2	0.6	1	1	LOC, rat oral LD50.
386	**Bromine**	**7726-95-6**	0.216	**0.216**	**1.57**	**55.5**	AEGL-1, **AEGL-1, AEGL-2, AEGL-3.**
387	**Bromine chloride**	**13863-41-7**	0.75	**2.36**	**11.8**	**35.8**	AEGL-1/3, **AEGL-1, AEGL-2, AEGL-3.**

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Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
388	**Bromine pentafluoride**	**7789-30-2**	0.75	1	**7.15**	**236**	TLV-TWA, AEGL-2/7, **AEGL-2, AEGL-3.**
389	**Bromine trifluoride**	**7787-71-5**	0.2	**0.671**	**11.2**	**118**	AEGL-1/3, **AEGL-1, AEGL-2, AEGL-3.**
390	Bromo acetic acid, methyl ester	96-32-2	0.25	0.75	5	25	Mouse iv LD lo.
391	Bromo-1-chloro-5,5-dimethylhydantoin, 3-; (Bromo-1-chloro-5,5-dimethyl-2,4-imidazolidinedione, 3-)	126-06-7	2.5	7.5	50	250	Rat oral LD50.
392	Bromo-2-chloro-1,1,2-trifluoroethane, 1-; (1,1,2-Trifluoro-1-bromo-2-chloroethane)	354-06-3	400	1,250	7,500	40,000	Mouse 120 min LC50.
393	Bromo-3-chloro-5,5-dimethylhydantoin, 1-; (1-Bromo-3-chloro-5,5-dimethyl-2,4-imidazolidinedione)	16079-88-2	6	15	125	500	Rat oral LD50.
394	Bromo-3-methylbutane, 1-	107-82-4	25	75	500	2,500	Rat ip LD50.
395	Bromoacetaldehyde diethyl acetul	2032-35-1	7.5	25	150	500	Rat oral LD50 estimated from HHR.
396	Bromoacetic acid	79-08-3	0.04	0.125	0.75	4	Rat 30 min LC lo.
397	Bromoacetone	598-31-2	0.4	1.25	7.5	40	Human LC lo
398	Bromoanisole, 99, 3-	2398-37-0	10	30	50	250	PNOS default used.
399	Bromobenzene; (Phenyl bromide)	108-86-1	6	15	125	2,000	Mouse intraperitoneal TDlo, rat 240 min LC50.
400	Bromochlorobenzene, m-	108-37-2	10	30	50	250	Used PNOS default.
401	Bromochlorobenzene, p-	106-39-8	10	30	50	250	Used PNOS default.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
402	Bromochloromethane	74-97-5	1,000	3,000	5,000	10,000	PEL-TWA, IDLH.
403	Bromocresol green	76-60-8	10	30	50	250	Used PNOS default.
404	Bromocresol purple	115-40-2	10	30	50	250	Used PNOS default.
405	Bromocyclohexanol, Cis-2-	16536-57-5	0.3	0.75	5	300	**SAR**
406	Bromodecane, 1-	112-29-8	15	40	300	1,500	Mouse 120 min LC50
407	Bromodichloromethane	75-27-4	1.5	4	30	150	Rat oral TDlo, rat oral LD50.
408	Bromododecane, 1-	143-15-7	7.5	25	150	500	Rat oral LD50 based on HHR.
409	Bromoethane; (Ethyl bromide)	74-96-4	20	4,000	7,500	7,500	TLV-TWA, rat TClo, IDLH.
410	Bromoethanol , 2- (ethylene bromohydrin)	540-51-2	0.075	0.2	1.5	60	Mouse ip TDlo, mouse ip LD lo.
411	Bromoethylmagnesium	925-90-6	1.5	5	35	150	Rat oral LD50 based on HHR = 3.
412	Bromofluorobenzene, 4-; (p-fluorobromobenzene)	460-00-4	75	200	500	500	Rat 240 min LC50
413	Bromoform; (Tribromomethane)	75-25-2	5	5	10	7,500	PEL-TWA, IDLH.
414	Bromohexane; (n-Hexyl bromide)	111-25-1	250	750	6,000	30,000	Rat 30 min LC50.
415	Bromomesitylene, 2-; (2-Bromo-1,3,5-trimethylbenzene)	576-83-0	10	30	50	250	PNOS default used.
416	Bromomethyl-1,3-dioxolane, 2-	4360-63-8	7.5	25	150	500	Rat oral LD50 estimated from HHR = 2.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
417	Bromonaphthalene	90-11-9	3.5	10	60	350	Mouse ip LD50.
418	Bromonitromethane	563-70-2	0.75	2.5	15	75	Rat oral LD lo.
419	Bromooctane , 1-; (Octyl bromide)	111-83-1	20	60	400	2,000	Rat oral LD50.
420	Bromophenol blue	115-39-9	10	30	50	250	PNOS default used.
421	Bromophenyl phenyl ether, 4-	101-55-3	2	6	40	200	Rat 240 min LC lo.
422	Bromopropane, 1-	106-94-5	50	150	12,500	12,500	TLV-TWA, rat TClo, rat 30 min LC lo.
423	Bromopropane, 2-	75-26-3	3,000	7,500	60,000	125,000	Rat TClo, mouse 240 min LC50
424	Bromopyrene, 3-	1714-29-0	10	30	50	250	Used PNOS default.
425	Bromosuccinimide, N-	128-08-5	2	6	40	200	Mouse ip LD lo.
426	Bromothymol blue	76-59-5	10	30	50	250	Used PNOS default
427	Bromotoluene, A-; (Benzyl bromide)	100-39-0	0.6	1.5	12.5	60	Rabbit 30 min LC lo
428	Bromotrichloromethane	75-62-7	0.5	1.5	10	50	Rat ip LD50.
429	Bromotrifluoroethylene	598-73-2	40	125	200	750	Fluoride concentration limits, rat TClo, rat 240 min LC lo.
430	Bromotrifluoromethane; (Trifluorobromomethane)	75-63-8	6,000	20,000	150,000	250,000	PEL-TWA, 60 min EEGL, 30 min EEGL.
431	Bromotrimethylsilane; (Trimethylsilyl bromide)	2857-97-8	1.5	5	35	150	Rat oral LD50 based on HHR = 3.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
432	Brown menhaden fish oil	68440-42-6	10	30	50	250	PNOS default used.
433	Brucine; (2,3-Dimethoxystrychnine)	357-57-3	0.6	1.5	12.5	40	Rat ip TDlo, rat ip LD50
434	Buffer solution, aequeous	7732-18-5	500	500	500	500	Human oral TDlo, mouse ip LD50
435	**Butadiene,1,3-**	**106-99-0**	2	**1,480**	**11,700**	**48,600**	PEL-TWA, **AEGL-1, AEGL-2, AEGL-3.**
436	Butanaminium,N,N,N-tributyl bromide, 1-; (Tetrabutylammonium bromide)	1643-19-2	10	30	50	250	Used PNOS default
437	**Butane**	**106-97-8**	2,500	**13,100**	**40,400**	**126,000**	TLV-TWA, **AEGL-1, AEGL-2, AEGL-3.**
438	Butanedioic acid, diethyl ester; (Succinic acid, diethyl ester)	123-25-1	35	100	750	3,500	Rat oral LD50.
439	Butanedioic acid, dimethyl ester; (Succinic acid, dimethyl ester)	106-65-0	20	60	400	2,000	Rat oral LD50 minimum.
440	Butanediol dinitrate, 1,4-	3457-91-8	0.35	0.75	3	20	**SAR**
441	Butanediol, 1,3-	107-88-0	25	75	500	500	Mammal oral TDlo, rat oral LD50
442	Butanediol, 1,4-; (1,4-Tetramethylene glycol)	110-63-4	1.25	3.5	25	250	WOMEN LD LO, RAT ORAL TDlo.
443	Butanedione, 2,3-	431-03-8	20	60	400	400	Rat oral TDlo, rat oral LD50.
444	Butanenitrile; (Butyronitrile)	109-74-0	20	60	100	125	REL-TWA, mouse 60 min LC50.
445	Butanephosphonic acid	3321-64-0	0.02	0.06	0.4	2	**SAR**
446	Butanethiol; (n-Butyl mercaptan)	109-79-5	1.5	20	150	1,500	PEL-TWA, REL-C, IDLH.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
447	Butanoic acid, butyl ester; (n-Butyl n-butanoate)	109-21-7	10	30	200	1,000	RAT IP LD50.
448	Butanol, aluminum salt, 2-	2269-22-9	18.3	54.8	91.3	400	Al alkyls TLV-TWA.
449	Butanol-d10, n-	34193-38-9	1.5	5	35	150	Estimated rat 240 min LC50.
450	Butanone oxime; (Ethyl methyl ketoxime)	96-29-7	35	150	400	400	WEEL-TWA, Rat TClo, rat oral LD50.
451	**Butanone, 2-; (Methyl ethyl ketone; MEK)**	**78-93-3**	590	**590**	**7,960**	**11,800**	PEL-TWA, **AEGL-1, AEGL-2, AEGL-3.**
452	Butene, 1-; (Butylene)	106-98-9	600	1,500	30,000	150,000	TLV-TWA, TEEL-0 x 3, inferred mouse TClo and LD lo.
453	Butene, 2-	107-01-7	600	1,500	3,000	150,000	TLV-TWA, TEEL-0 x 3, TEEL-0 x 5, rat 240 min LC50.
454	Butene, cis-2-; (cis-1,2-Dimethylethylene)	590-18-1	600	150,000	500,000	750,000	TLV-TWA, simple asphyxiant for PAC-1, PAC-2, PAC-3.
455	Butene, trans-2-; (Trans-1,2-dimethylethylene)	624-64-6	600	1,500	30,000	150,000	TLV-TWA, TEEL-0 x 3, inferred mouse TClo and LD lo.
456	Butoxyethanol acetate, 2-; (Ethylene glycol monobutyl ether acetate)	112-07-2	125	400	600	1,000	TLV-TWA, TEEL-0*3, TEEL-0*5, rat oral LD50.
457	Butoxyethanol phosphate, 2-	78-51-3	7.5	20	150	500	Rat oral TDlo, rat oral LD50.
458	Butoxyethanol, 2-; (Glycol ether EB)	111-76-2	250	250	500	3,500	PEL-TWA, human TClo, IDLH.
459	Butoxyethoxy)ethanol, 2-(2-; (Diethylene glycol monobutyl ether)	112-34-5	100	100	500	500	MAK-TWA, rat oral TDlo, rat oral LD50.
460	Butoxyethoxy)ethyl thiocyanate, 2-(2-	112-56-1	0.35	1	7.5	40	Rat oral LD50.
461	Butoxypolypropylene glycol	9003-13-8	35	100	500	500	Rat oral LD50

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
462	**Butyl acetate, n-**	**123-86-4**	24	**24**	**950**	**14,250**	ERPG-1, **ERPG-1, ERPG-2, ERPG-3.**
463	Butyl acetate, sec-	105-46-4	750	750	1,500	7,500	PEL-TWA, PAC-3/35, PAC-3/5, IDLH.
464	Butyl acetate, tert-	540-88-5	750	2,500	4,000	6,000	PEL-TWA, IDLH.
465	Butyl acetoacetate, tert-	1694-31-1	20	60	400	500	Rat oral LD50 minimum.
466	**Butyl acrylate, n-**	**141-32-2**	10	**43.5**	**681**	**2,510**	TLV-TWA, **AEGL-1, AEGL-2, AEGL-3.**
467	Butyl alcohol, n-	71-36-3	150	150	150	4,000	PEL-TWA, REL-C, IDLH.
468	Butyl alcohol, sec-; (2-Butanol)	78-92-2	300	400	6,000	6,000	TLV-TWA, rat TClo, IDLH.
469	Butyl bis(2-ethylhexyl)phosphate	z-0002	3	7.5	10	10	**SAR**
470	Butyl bromide, n-; (1-Bromobutane)	109-65-9	100	300	2,000	10,000	Rat 120 min LC50
471	**Butyl chloroformate, n-**	**592-34-7**	1	1.5	**12.3**	**37.4**	MAK-TWA, AEGL-2/7, **AEGL-2, AEGL-3.**
472	**Butyl chloroformate, sec-**	**17462-58-7**	0.6	1.5	**12.3**	**37.4**	AEGL-2/21, AEGL-2/7, **AEGL-2, AEGL-3.**
473	Butyl ether, n-; (Dibutyl ether)	142-96-1	5	15	100	2,000	Human TClo, rat 240 min LC lo.
474	Butyl glycidyl ether, n-	2426-08-6	15	15	30	1,250	TLV-TWA, REL-C, IDLH.
475	**Butyl isocyanate, n-**	**111-36-4**	0.0125	**0.04**	**0.2**	**4**	ERPG-1/3, **ERPG-1, ERPG-2, ERPG-3.**
476	Butyl isocyanate, Tert-	1609-86-5	0.25	0.75	5	25	Rat 240 min LC50.

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Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
477	Butyl levulinate	2052-15-5	20	60	400	500	Rat oral LD50 minimum.
478	Butyl lithium	109-72-8	0.231	0.231	1.25	6	LiH rat 240 min LClo
479	Butyl methyl-d3 ether, tert-	29366-08-3	150	500	15,000	15,000	Tert-butyl methyl ether TLV-TWA, and toxicity data.
480	Butyl perbenzoate, tert-	614-45-9	7.5	25	150	400	Mouse uk TDlo, rat oral LD50.
481	Butyl propanoate; (Propanoic acid, butyl ester)	590-01-2	500	500	500	500	Rat TClo, rat oral LD50.
482	Butyl-2-methylcyclopropane, T-1-	38851-70-6	10	30	50	250	Used PNOS default.
483	Butyl-3-iodo-2-propynylcarbamate	55406-53-6	10	30	50	250	Used PNOS default.
484	Butylamine, (S)-sec-	513-49-5	1.5	4	30	150	Rat oral LD50.
485	Butylamine, n-	109-73-9	7.5	20	150	750	MAK-TWA, PEL-C and mouse ip TDlo, IDLH.
486	Butylamine, sec-	13952-84-6	15	15	30	60	MAK-TWA, MAK-C, rat oral LD50.
487	Butylamine, tert-	75-64-9	15	15	30	400	MAK-TWA, MAK-C, human TClo, rat 240 min LC50.
488	Butylbenzene, n-; (1-Phenylbutane)	104-51-8	40	125	750	4,000	Rat oral LD lo.
489	Butylbenzene, sec-; (2-Phenylbutane)	135-98-8	7.5	25	200	1,000	Rat oral LD50
490	Butylbenzene, tert-	98-06-6	40	125	750	4,000	Rat oral LD lo.
491	Butylcyclohexane; (1-Cyclohexylbutane)	1678-93-9	10	30	200	1,000	Estimated rat oral LD50.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
492	Butylcyclohexanone, p-tert-	98-53-3	20	60	400	500	Rat oral LD50.
493	Butylene carbonate; (1,2-Butanediol, cyclic carbonate)	4437-85-8	20	60	400	500	Rat oral LD50 minimum.
494	Butylpyrocatechol, 4-tert-; (4-tert-Butylcatechol)	98-29-3	0.1	0.3	2	500	WEEL-C, rat oral LD50/
495	**Butyltrichlorosilane**	**7521-80-4**	1.5	**4.7**	**57.2**	**258**	AEGL-1/3, **AEGL-1, AEGL-2, AEGL-3.**
496	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.
497	Butyraldehyde	123-72-8	0.06	0.15	1.25	40	Human TClo, rat 10 min LC50.
498	Butyric acid	107-92-6	50	150	750	750	Hamster oral TDlo, rat oral LD50.
499	Butyric acid, sodium salt	156-54-7	50	150	500	500	Dog iv TDlo.
500	**BZ; (3-Quinuclidinyl benzilate)**	**6581-06-2**	0.006	0.02	**0.033**	**0.62**	AEGL-2/5, AEGL-2*3/5, **AEGL-2, AEGL-3.**
501	C.I. pigment red 53:1; (5-Chloro-2-((2-hydroxy-1-naphthyl)azo)-p-toluene sulfonic acid, barium salt)	5160-02-1	12.5	35	250	500	Rat oral TDlo.
502	C-18 Unsarturated fatty acid, dimers, reaction products with polyethylenepolyamines; (Versamid 140 polyamide resin; Versamid 125)	68410-23-1	10	30	50	250	Used PNOS default
503	Cacodylic acid	75-60-5	0.5	1.5	5	5	Organic arsenic compound PEL-TWA, IDLH.
504	Cadmium and compounds, as Cd.	7440-43-9	0.005	0.03	1.25	9	PEL-TWA, woman TClo, IDLH.
505	Cadmium bromide	7789-42-6	0.0121	0.0727	4	21.8	PEL-TWA, LOC, IDLH.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
506	Cadmium carbonate	513-78-0	0.0077	0.046	4	13.8	PEL-TWA, LOC, IDLH.
507	Cadmium chloride	10108-64-2	0.0082	0.0489	0.5	14.7	PEL-TWA, rat TClo, IDLH.
508	Cadmium chloride hemipentahydrate; (Cadmium chloride, 2.5-hydrate)	7790-78-5	0.25	0.75	5	300	Rat ip TDlo, rat oral LD50.
509	Cadmium fluoride	7790-79-6	0.0067	0.0401	4	12	PEL-TWA, LOC, IDLH.
510	Cadmium hydroxide	21041-95-2	0.0065	0.0391	4	11.7	PEL-TWA, LOC, IDLH.
511	Cadmium nitrate	10325-94-7	0.0105	0.0631	4	18.9	PEL-TWA, LOC, IDLH.
512	Cadmium nitrate tetrahydrate	10022-68-1	0.0137	0.6	4	24.7	PEL-TWA, LOC, IDLH.
513	Cadmium nitrite	7790-83-2	0.0091	0.0546	4	16.4	PEL-TWA, LOC, IDLH.
514	Cadmium oxide	1306-19-0	0.0057	0.0343	4	10.3	PEL-TWA, LOC, IDLH.
515	Cadmium stearate; (Octadecanoic acid, cadmium salt)	2223-93-0	0.0303	0.182	13	54.6	PEL-TWA, LOC, IDLH.
516	Cadmium sulfate	10124-36-4	0.0093	0.0557	4	16.7	PEL-TWA, LOC, IDLH.
517	Cadmium sulfate, hydrate	7790-84-3	0.0157	0.0941	0.3	28.2	PEL-TWA, hamster iv TDlo, IDLH.
518	Cadmium sulfide	1306-23-6	0.0064	0.0386	11.6	11.6	PEL-TWA, rat subcutaneous TDlo, IDLH.
519	Cadmium tungstate	7790-85-4	0.016	0.0961	4	28.8	PEL-TWA, LOC, IDLH.
520	Cadmium(II) acetate	543-90-8	0.0052	0.031	4	9.3	PEL-TWA, LOC, IDLH.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
521	Calcium	7440-70-2	10	30	50	250	Used PNOS default.
522	Calcium acetate	62-54-4	0.02	0.06	0.4	30	Pregnant rat TClo, mouse ip LD50.
523	Calcium arsenate	7778-44-1	0.0266	1.5	10	13.3	PEL-TWA, PAC-2/7, LOC, IDLH.
524	Calcium carbide	75-20-7	10	30	50	250	Used PNOS default.
525	Calcium carbonate; (Dolomite, Limestone)	1317-65-3	15	15	60	300	PEL-TWA, PEL-TWA, rat TClo, TEEL-2*5.
526	Calcium chloride	10043-52-4	25	75	400	400	Women intravenous TDlo, rat oral LD50.
527	Calcium chloride dihydrate	10035-04-8	40	125	500	500	Rat oral TDlo, mouse ip LD50.
528	Calcium chloride hexahydrate	7774-34-7	5	15	100	500	Guinea pig iv LD lo.
529	Calcium chloride hydrate	22691-02-7	30	100	450	500	Concentration limits based on TEELs for Ca.Cl2 and Ca.Cl2..2(H2.O)
530	Calcium chromate	13765-19-0	0.015	0.0901	1.25	45	Cr VI concentration limits.
531	Calcium cyanamide	156-62-7	0.5	1.5	125	500	TLV-TWA, rat oral TDlo, human oral LD lo.
532	Calcium fluoride	7789-75-5	5.14	15.4	200	500	Fluoride concentration limits, rat oral LD50.
533	Calcium formate	544-17-2	10	30	200	500	Rat oral LD50.
534	Calcium hydride	7789-78-8	1.5	5	35	150	Estimated rat oral LD50.
535	Calcium hydroxide	1305-62-0	15	15	500	500	PEL-TWA, rat oral LD50.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
536	Calcium hypochlorite; (Calcium oxychloride)	7778-54-3	3.5	10	75	350	Rat oral LD50.
537	Calcium metasilicate	10101-39-0	10	30	50	250	Used PNOS default.
538	Calcium monohydrogen phosphate dihydrate	7789-77-7	10	30	50	250	Used PNOS default.
539	Calcium nitrite	13780-06-8	0.03	0.075	0.6	50	**SAR**
540	Calcium oxalate	563-72-4	6	15	50	50	**SAR**
541	Calcium oxalate, hydrate	5794-28-5	10	30	50	250	Used PNOS default.
542	Calcium oxide	1305-78-8	5	5	5	25	PEL-TWA, IDLH.
543	Calcium phosphate tribasic	12167-74-7	10	30	50	250	Used PNOS default.
544	Calcium phosphate; (Tricalcium phosphate)	10103-46-5	7.5	20	35	350	**SAR**
545	**Calcium phosphide**	**1305-99-3**	0.35	1	**7.45**	**13.4**	AEGL-2/21, AEGL-2/7, **AEGL-2, AEGL-3.**
546	Calcium sulfate anhydrous; (Drierite; Gypsum; Plaster of Paris)	7778-18-9	15	30	50	250	PEL-TWA, TLV-TWA x 3, TLV-TWA X 5, TLV-TWA X 25..
547	Calcium(II) nitrate	10124-37-5	1.25	3.5	25	125	Rat oral LD50.
548	Calcium(II) nitrate tetrahydrate (1:2:4)	13477-34-4	15	50	350	500	Rat oral LD50.
549	Calcium(II) sulfate dihydrate (1:1:2)	10101-41-4	15	30	50	75	Ca sulfate PEL-TWA, TLV-TWA, rat ip TDlo.
550	Camphor	76-22-2	2	19	19	200	PEL-TWA, TLV-STEL, rabbit TClo, IDLH.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
551	Camphorsulfonic acid, (1R)-(-)-10-	35963-20-3	4	12.5	75	400	Mouse sc LD50 of CASRN 3144-16-9.
552	Cantharidin	56-25-7	0.75	2.5	4.3	4.3	LOC, human oral LD lo.
553	Caprolactam (dust)	105-60-2	1	3	3	20	REL-TWA, REL-STEL, human TClo, rat 120 min LC50.
554	Caprolactone; (epsilon-Lactone hexanoic acid)	502-44-3	15	50	350	500	Rat oral LD50.
555	Caprylyl chloride; (Octanoyl chloride)	111-64-8	10	30	50	250	Used PNOS default.
556	CAPSO	73463-39-5	10	30	50	250	Used PNOS default.
557	Captan	133-06-2	5	15	30	500	TLV-TWA, male mouse oral TDlo, human oral LD lo.
558	Carbachol Chloride	51-83-2	3	7.5	15	15	LOC, rat oral LD50.
559	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.
560	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.
561	Carbaryl	63-25-2	5	5	15	100	PEL-TWA, TEEL-0, human oral TDlo, IDLH.
562	Carbazole	86-74-8	0.75	2.5	15	75	Mouse ip LD50.
563	Carbazole violet	6358-30-1	75	250	500	500	Rat oral LD50 based on HHR.
564	Carbethoxyethylidine(triphenylphosphorane)	5717-37-3	10	30	50	250	Used PNOS default.
565	Carbofuran	1563-66-2	0.1	0.3	0.43	0.5	TLV-TWA, LOC, women oral LD50.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
566	Carbon black	1333-86-4	3.5	10.5	17.5	500	PEL-TWA, IDLH.
567	Carbon dioxide	124-38-9	7,500	50,000	50,000	75,000	PEL-TWA, TLV-STEL, rat TClo, IDLH.
568	**Carbon disulfide**	**75-15-0**	40.4	**40.4**	**498**	**1,490**	AEGL-1, **AEGL-1, AEGL-2, AEGL-3.**
569	**Carbon monoxide**	**630-08-0**	60	95	**95**	**378**	PEL-TWA, AEGL-2, **AEGL-2, AEGL-3.**
570	**Carbon tetrachloride**	**56-23-5**	60	**277**	**1,190**	**3,270**	TLV-TWA, **AEGL-1, -2, -3.**
571	Carbon tetrafluoride; (Tetrafluoromethane)	75-73-0	750	2,500	15,000	75,000	Rat 15 min LC lo.
572	Carbon trifluoride; (Trifluoromethane, Fluoroform)	75-46-7	2,500	7,500	60,000	300,000	Estimated human TClo.
573	Carbon; (Graphite, synthetic)	7440-44-0	2	6	10	500	TLV-TWA, rat sc TDlo, IDLH.
574	Carbonic acid, calcium salt	471-34-1	15	45	500	500	PEL-TWA, rat oral LD50.
575	**Carbonyl fluoride**	**353-50-4**	0.755	0.755	**0.755**	**2.24**	AEGL-2, AEGL-2, **AEGL-2, AEGL-3.**
576	**Carbonyl sulfide**	**463-58-1**	25	75	**135**	**368**	AEGL-2/5, AEGL-2*3/5**, AEGL-2, AEGL-3.**
577	Carbonyldiphthalic anhydride, 4,4'-	2421-28-5	10	30	50	250	Used PNOS default.
578	Carbophenothion; (Trithion)	786-19-6	1.25	4	6.8	6.8	LOC, rat oral LD50.
579	Carboxymethyl cellulose	9000-11-7	40	125	500	500	Rat oral LDlo minimum.
580	Carboxymethyl sepharose; (CM sepharose)	68894-07-5	7.5	25	150	500	Rat oral LD50 based on HHR = 2.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
581	Casamino acids	z-0008	10	30	50	250	Used PNOS default.
582	Casein; (Casamino acids; Casein hydrolysate type 1)	9000-71-9	10	30	50	250	PNOS default
583	Castor oil	8001-79-4	40	125	500	500	Rat im TDlo, human oral LD lo minimum.
584	Catechol	120-80-9	20	20	40	100	TLV-TWA, PAC-2/7, rat oral TDlo, rat oral LD50.
585	Cation exchange resin 200-400 mesh Hyd. Dowex 50W-X8	11119-67-8	10	30	50	250	Used PNOS default
586	Cation exchange resin 50W-X12, 200 - 400 mesh	9056-03-5	10	30	50	250	Used PNOS default
587	Cellulose	9004-34-6	15	30	500	500	PEL-TWA, TLV-TWA, rat oral TDlo, rat 240 min LC 50.
588	Cellulose acetate butanoate	9004-36-8	10	30	50	250	Used PNOS default
589	Cellulose, 2-(diethylamino)ethyl ether	9013-34-7	10	30	50	250	Used PNOS default
590	Ceric ammonium nitrate	16774-21-3	39.1	117	200	500	Used PNOS default
591	Ceric ammonium sulfate	7637-03-8	42.9	129	214	500	Used PNOS default
592	Ceric ammonium sulfate, dihydrate	10378-47-9	10	30	50	250	Used PNOS default
593	Ceric oxide	1306-38-3	6	20	150	500	Rat 240 min TClo, rat oral LD50 minimum.
594	Cerium	7440-45-1	10	30	50	250	Used PNOS default
595	Cerium (iv) nitrate, 1.5	13093-17-9	10	30	50	250	PNOS TLV-TWA default used.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
596	Cerium acetate	537-00-8	0.1	0.35	2	10	Human iv TDlo.
597	Cerium chloride	7790-86-5	7.5	25	150	500	Rat oral LD50
598	Cerium fluoride	7758-88-5	8.65	25.9	43.2	500	Rat oral LD50 minimum.
599	Cerium hydroxide	15785-09-8	0.75	0.75	2	75	**SAR**
600	Cerium nitrate hexahydrate	10294-41-4	15	50	350	500	Rat oral LD50
601	Cerium oxalate	15750-47-7	22.6	67.7	113	500	Used PNOS default.
602	Cerium sulfate	13590-82-4	1	3.5	20	100	Male rat intratracheal TDlo.
603	Cerium trioxide	1345-13-7	2	6	40	200	Mouse ip LD50.
604	Cerium(III) sulfate	13454-94-9	7.5	25	150	500	Rat oral LD50 based on HHR = 2.
605	Cerium(IV) hydroxide	12014-56-1	14.9	44.6	75	350	Used PNOS default.
606	Cerous nitrate; (Cerium(III) nitrate)	10108-73-3	1	3	20	500	Male rat intratracheal TDlo, rat oral LD50.
607	Cerous nitrite	z-0004	0.04	0.1	0.75	75	**SAR**
608	Cesium	7440-46-2	6	20	150	500	Mouse ip LD50.
609	Cesium carbonate	534-17-8	10	30	200	500	Rat oral LD50.
610	Cesium chloride	7647-17-8	0.4	1.25	10	500	Female rat oral TDlo, rat oral LD50.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
611	Cesium fluoride	13400-13-0	20	60	100	500	Fluoride concentration limits.
612	Cesium hydroxide	21351-79-1	2	2	7.5	250	TLV-TWA, rat TClo, rat oral LD50.
613	Cesium iodide	7789-17-5	10	30	200	500	Rat oral LD50.
614	Cesium nitrate	7789-18-6	10	30	200	500	Rat oral LD50.
615	Cesium nitrite	13454-83-6	0.075	0.2	1.5	60	**SAR**
616	Cesium oxide	20281-00-9	2.24	6.72	11.2	500	Cs hydroxide TLV-TWA and rat oral LD lo (HSDB).
617	Charcoal, activated	64365-11-3	10	30	50	250	Used PNOS default
618	Chloramben; (3-Amino-2,5-dichlorobenzoic acid)	133-90-4	35	100	500	500	Mouse oral TDlo, rat oral LD50.
619	Chloramphenicol	56-75-7	0.5	1.5	7.5	350	WEEL-TWA, human TDlo, women orak LD lo.
620	Chlordane	57-74-9	0.5	1.5	50	100	PEL-TWA, LOC, IDLH.
621	Chlorfenvinfos	470-90-6	2	6	10	10	LOC, rat oral LD50.
622	Chloric acid, sodium salt; (Sodium chlorate)	7775-09-9	0.15	0.4	3	75	Human oral TDlo, child uk LD50.
623	Chloride	16887-00-6	0.75	1.5	1.5	15	TLV-TWA, TLV-STEL, PEL-C, IDLH.
624	Chlorinated polyolefins	68410-99-1	10	30	50	250	Used PNOS default.
625	**Chlorine**	**7782-50-5**	1.45	**1.45**	**5.8**	**58**	TLV-TWA, **AEGL-1, AEGL-2, AEGL-3**

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
626	**Chlorine dioxide**	**10049-04-4**	0.25	**0.414**	**3.03**	**6.62**	PEL-TWA, **AEGL-1, AEGL-2, AEGL-3**
627	Chlorine Hi dry granular (as Cl)	z-0006	0.75	1.5	4	30	Chlorine TLV-TWA, ERPG-1, ERPG-2, ERPG-3.
628	**Chlorine pentafluoride**	**13637-63-3**	0.5	**1.6**	**5.33**	**42.7**	AEGL-1/3, **AEGL-1, AEGL-2, AEGL-3.**
629	**Chlorine trifluoride**	**7790-91-2**	0.15	**0.453**	**7.56**	**79.3**	MAK-TWA, **AEGL-1, AEGL-2, AEGL-3**
630	Chlormephos	24934-91-6	1.25	4	7	35	LOC, rat 240 min LC50.
631	Chlormequat Chloride; (Choline dichloride)	999-81-5	0.35	1	7	7.5	LOC, human LD lo.
632	**Chloro-1,1,1,2-tetrafluoroethane, 2-**	**2837-89-0**	5,580	**5,580**	**27,900**	**55,800**	PAC-1, **ERPG-1, ERPG-2, ERPG-3.**
633	**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.**
634	Chloro-1,2-propanediol, 3-; (Chlorohydrin)	96-24-2	0.1	0.3	2	60	Rat oral TDlo, rat 240 min LC lo.
635	Chloro-1-butanol, 4-	928-51-8	1.5	5	40	400	Mouse ip TDlo, mouse oral LD50.
636	Chloro-2,4-dinitrobenzene, 1-	97-00-7	3	10	60	350	Rat oral TDlo, rat oral LD50.
637	Chloro-2-methyl-1-propene, 3-	563-47-3	3	7.5	60	300	Rat oral TDlo.
638	Chloro-2-methylpropane, 2-; (Tert-butyl chloride)	507-20-0	1.5	4	30	7,500	Mouse ip TDlo, HHR-based rat oral LD50.
639	Chloro-2-nitrophenol, 4-	89-64-5	0.4	1.25	7.5	40	MSDS rat oral LD50.
640	Chloro-4-nitrophenol, 2-	619-08-9	3.5	10	75	400	Rat oral LD50.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
641	**Chloroacetaldehyde**	**107-20-0**	1.25	**4.17**	**7.06**	**31.8**	PEL-C, **AEGL-1, AEGL-2, AEGL-3.**
642	Chloroacetaldehyde dimethyl acetal	97-97-2	7.5	25	150	500	Estimated HHR and rat oral LD50.
643	Chloroacetic acid, sodium salt	3926-62-3	2.38	7.14	40	40	WEEL-TWA, rat oral TDlo, rat oral LD50.
644	**Chloroacetic acid; (Monochloroacetic acid)**	**79-11-8**	2	6	**25.5**	75	TLV-TWA, TLV*3, **AEGL-2**, rat 240 min LC50.
645	**Chloroacetone**	**78-95-5**	0.75	2	**16.6**	**49.2**	AEGL-2/21, AEGL-2/7, **AEGL-2, AEGL-3.**
646	**Chloroacetonitrile**	**107-14-2**	4	12.5	**98.7**	**207**	AEGL-2/21, AEGL-2/7, **AEGL-2, AEGL-3.**
647	**Chloroacetyl chloride**	**79-04-9**	0.185	**0.185**	**7.39**	**240**	AEGL-1, **AEGL-1, AEGL-2, AEGL-3.**
648	Chloroallyl)-3,5,7-triaza-1-azoniaadamantane chloride, 1-(3-	4080-31-3	1	3	20	200	Rat oral TDlo, rat oral LD50.
649	Chloroaniline, p-	106-47-8	0.5	1.5	10	300	Rat oral TDlo, mouse 360 min LC lo.
650	**Chlorobenzene; (Benzene chloride)**	**108-90-7**	46	**46**	**690**	**1,840**	AEGL-1, **AEGL-1, AEGL-2, AEGL-3.**
651	Chlorobenzotrifluoride, 2-	88-16-4	6	20	125	500	Rat oral LD50.
652	Chlorobenzylate; (4,4'-Dichlorobenzilic acid ethyl ester)	510-15-6	0.3	0.75	6	300	Rat oral TDlo, rat oral LD50.
653	**Chlorobenzylidene malononitrile, o-**	**2698-41-1**	0.005	**0.005**	**0.1**	**25**	ERPG-1, **ERPG-1, ERPG-2, ERPG-3.**
654	Chlorobutane, 1-; (Butyl chloride)	109-69-3	30	75	600	3,000	Rat oral TDlo, rat 240 min Lclo.
655	Chlorobutane, 2-; (Sec-butyl chloride)	78-86-4	1.5	5	35	12,500	Mouse ip TDlo, rat 240 min LC lo.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
656	Chlorobutyryl chloride, 4-	4635-59-0	2.5	7.5	50	250	Rat 240 min LC50
657	Chlorocyclohexanol, trans-2-	6628-80-4	3.5	10	75	400	Rat oral LD50.
658	Chlorocyclohexene; (4-Chlorocyclohexene)	930-65-4	100	300	2,500	12,500	**SAR**
659	Chlorodecane, 1-	1002-69-3	350	1,000	1,500	7,500	Alkane REL-TWA, REL-C
660	Chlorodiethylaluminum; (Diethylaluminum chloride)	96-10-6	8.94	26.82	200	500	TLV-TWA, rat 15 min LC50
661	Chlorodifluoromethane	75-45-6	3,500	4,000	30,000	30,000	TLV-TWA, rat 15 min LC50, rat TClo.
662	Chloroethanesulfonyl chloride, 2-	1622-32-8	1.25	3.5	25	150	LOC, rat 240 min LC50.
663	Chloroethyl chloroformate	627-11-2	4	12.5	20	20	LOC, mouse 10 min LC lo..
664	Chloroethyl vinyl ether, 2-; (Ethene, 2-chloroethoxy-)	110-75-8	1	3.5	20	100	Rat 240 min LC lo.
665	Chloroethylchloromethylsulfide, 2-	2625-76-5	0.02	0.06	0.1	1.5	Sulfur mustard (505-60-2) AEGLs
666	**Chloroform**	**67-66-3**	10	10	**312**	**15,600**	REL-STEL, REL-STEL**, AEGL-2, AEGL-3**
667	Chloroform-D; (Deuterated chloroform)	865-49-6	10	10	250	2,500	Chloroform TLV-TWA, REL-STEL, PEL-C, IDLH.
668	Chloro-m-cresol, 4-	59-50-7	7.5	20	150	500	Rat oral LD50.
669	**Chloromethyl methyl ether**	**107-30-2**	0.3	0.75	**1.55**	**6.58**	AEGL-2/5, AEGL-2*3/5, **AEGL-2, AEGL-3.**
670	**Chloromethyl(trichloro)silane**	**1558-25-4**	1.5	**4.51**	**54.9**	**248**	AEGL-1/3, **AEGL-1, AEGL-2, AEGL-3.**

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
671	Chloro-methyl-isothiazolin-3-one, 5-	26172-55-4	0.2	0.6	1	1	MAK-TWA, mouse skin TDlo.
672	Chloronaphthalene, 1-; (alpha-Chloronaphthalene)	90-13-1	6	20	125	500	Rat oral LD50.
673	Chloronaphthalene, 2-; (beta-Chloronaphthalene)	91-58-7	0.2	0.6	1	500	Rat oral LD50.
674	Chloronitrobenzene, p- ; (p-Nitrochlorobenzene)	100-00-5	1	1.92	100	100	PEL-TWA, TLV-TWA, mouse oral TDlo, IDLH.
675	Chloroperoxybenzoic acid, 3-	937-14-4	0.3	1	6	35	Mouse skin TDlo.
676	Chlorophacinone	3691-35-8	0.2	0.6	1	1	LOC, rat oral LD50.
677	Chlorophenol, 4-; (p-Chlorophenol)	106-48-9	250	400	400	400	Human 480 min TClo, mouse 120 min LClo
678	Chlorophenol, m-	108-43-0	0.3	0.75	6	250	Mouse skin TDlo, rat oral LD50.
679	Chlorophenol, o-	95-57-8	2	6	40	300	Rat oral TDlo, rat oral LD50.
680	Chlorophenyl phenyl ether, 4-	7005-72-3	0.0025	0.0075	0.05	0.25	Human TClo.
681	Chlorophenyl thiourea, 2-	5344-82-1	0.75	2.5	4.6	4.6	LOC, rat oral LD50.
682	Chloropicrin/Methyl bromide mixture	8004-09-9	2	3	12.5	60	Ratios of concentration limits of components.
683	Chloropicrin/Methyl chloride mixture	z-0007	2	2	6	30	Ratios of concentration limits of components.
684	**Chloropicrin; (Trichloronitromethane)**	**76-06-2**	0.336	**0.336**	**1.01**	**9.41**	AEGL-1, **AEGL-1, AEGL-2, AEGL-3.**
685	Chloroprene; (Neoprene)	126-99-8	3.5	3.5	3.5	1,000	REL-C, IDLH.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
686	Chloropropanol, 3-; (1-Propanol, 3-chloro)	627-30-5	10	30	200	500	Rat oral LD50.
687	Chloropropionitrile, 3-	542-76-7	1.5	4	7.5	40	LOC, rat oral LD50.
688	Chloropropyl)trimethoxysilane, 3-(; (3-(Trimethoxysilyl)propyl chloride)	2530-87-2	75	250	1,500	3,000	Rat TClo, rat oral LD50.
689	Chloropropylene, 2-	557-98-2	3,000	10,000	60,000	100,000	Rat TClo, mouse 120 min LC50.
690	Chloropropyl-n-octylsulfoxide, 3-	3569-57-1	1.5	5	8	500	LOC, rat oral LD50.
691	Chloro-p-toluenesulfonamide, sodium salt, n-; (Chloramine T)	127-65-1	0.075	0.25	2	250	PAC-2/5, PAC-2*3/5, dog iv TDlo, mouse uk LD lo.
692	Chlorosarin; (o-Isopropyl methylphosphonochloridate)	1445-76-7	0.001	0.003	0.04	0.125	Used Sarin PACs
693	Chlorosoman; (o-Pinacolyl methylphosphonochloridate)	7040-57-5	0.25	0.75	5	25	Rat sc LD50
694	**Chlorosulfonic acid; (Chlorosulfuric acid)**	**7790-94-5**	0.1	**0.10**	**4.4**	**25**	AEGL-1, **AEGL-1, AEGL-2, AEGL-3.**
695	Chlorothalonil; (Tetrachloroisophthalonitrile)	1897-45-6	3	7.5	30	30	Rat oral TDlo, rat 60 min LC50.
696	Chlorotoluene, 2-; (o-Chlorotoluene)	95-49-8	250	400	2,500	2,500	TLV-TWA, REL-STEL, rat 240 min LC lo.
697	Chlorotoluene, 4-; (p-Tolyl chloride)	106-43-4	125	400	2,500	12,500	Mouse 120 min LC50.
698	Chlorotrifluoroethene, homopolymer	9002-83-9	0.015	0.04	0.3	500	Rat oral TDlo, rat 240 min LC lo.
699	**Chlorotrifluoroethylene**	**79-38-9**	25	**76.2**	**409**	**2,000**	WEEL-TWA, **AEGL-1, AEGL-2, AEGL-3.**
700	Chlorotrifluoromethane; (CFC-13)	75-72-9	4,000	12,500	20,000	100,000	MAK-TWA.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
701	**Chlorovinylarsine dichloride; (Lewisite 1)**	**541-25-3**	0.12	0.12	**0.12**	**0.74**	AEGL-2, AEGL-2, **AEGL-2, AEGL-3.**
702	Chloroxuron	1982-47-4	2	6	10	500	LOC, rat 360 min LC50.
703	Chlorpyrifos; (Dursban)	2921-88-2	0.1	0.6	15	20	TLV-TWA, REL-STEL, mouse oral TDlo, rat 240 min LC50.
704	Chlorsulfuran	64902-72-3	0.125	0.35	2.5	500	Rat oral TDlo, rat 240 min LC50 minimum.
705	Chlorthiophos	21923-23-9	0.35	1	7.8	7.8	LOC, RTECS rat oral LD50
706	Chromates	13907-45-4	0.0096	0.2886	6	28.8	Cr VI concentration limits. TEELs are minima.
707	Chromic acetate; (Chromium(III) acetate)	1066-30-4	2.2	6.61	11	110	Cr III concentration limits.
708	Chromic acid ester	11115-74-5	0.0113	0.339	6	34	Cr IV concentration limits.
709	Chromic chloride; (Chromium(III) chloride)	10025-73-7	1.52	4.57	7.61	76.1	Cr III concentration limits.
710	Chromic oxide; (Chromium(III) oxide, chromium sesquioxide)	1308-38-9	0.731	15	36.5	36.5	Cr III concentration limits.
711	Chromic sulfate; (Chromium(III) sulfate (2:3))	10101-53-8	1.89	2.5	15	94.3	Cr III concentration limits.
712	Chromic trihydroxide; (Chromic(III) acid; Chromium hydroxide)	1308-14-1	0.991	1.25	10	49.5	Cr III concentration limits.
713	Chromic trioxide; (Chromium(VI) oxide (1:3))	1333-82-0	0.0096	0.0096	0.06	28.8	Cr VI concentration limits.
714	Chromic(VI) acid	7738-94-5	0.0113	0.339	6	34	Cr VI concentration limits.
715	Chromite; (Chromite (mineral))	1308-31-2	1.08	3.23	5.38	500	Cr II concentration limits.

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Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
716	Chromium	7440-47-3	1	1.5	2.5	250	Concentration limits
717	Chromium nitrate	10103-47-6	4.74	14.2	23.7	237	Cr(III) inorganic concentration limits.
718	Chromium nitrate nonahydrate	7789-02-8	3.85	11.5	20	192	Cr(III) concentration limits
719	Chromium perchlorate, hydrated	13537-21-8	3.37	10.1	16.8	168	Cr(III) inorganic concentration limits.
720	Chromium(III) acetate hydroxide	39430-51-8	2.4	7.21	12.5	120	Cr(III) concentration limits
721	Chromium(III) chloride, hexahydrate	10060-12-5	2.56	100	128	128	Cr(III) PEL-TWA, IDLH, rat oral TDlo.
722	Chromium(III) fluoride	7788-97-8	1.05	3.14	5.24	52.4	Cr(III) concentration limits.
723	Chromium(III) nitrate	13548-38-4	2.29	6.87	11.4	114	Cr(III) concentration limits
724	Chromium(III) oxide hydroxide; (Chromium oxyhydroxide)	20770-05-2	0.817	1	7.5	40.9	Cr(III) concentration limits
725	Chromium(III) potassium sulfate (1:1:2), dodecahydrate	7788-99-0	4.8	14.4	40	240	Cr(III) concentration limits.
726	Chromium(VI) hydroxide	12626-43-6	0.005	0.03	0.05	15	Cr(VI) concentration limits
727	Chromous chloride; (Chromium(II) chloride (1:2))	10049-05-5	1.18	3.55	6	500	Cr(II) concentration limits
728	Chrysene (coal tar volatile)	218-01-9	0.2	0.6	1	80	PEL-TWA, mouse skin TDlo, IDLH.
729	Cinnamaldehyde	104-55-2	1.25	4	30	500	Mouse sk TDlo, rat oral LD50.
730	Cinnamaldehyde, (E); (trans-Cinnamaldehyde)	14371-10-9	0.5	1.5	10	1,500	Rat oral TDlo, rat oral LD50.

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Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
731	Citric acid	77-92-9	12.5	35	250	500	Rat oral LD50.
732	Citric acid monohydrate	5949-29-1	1.5	4	30	150	Rat ip LD50.
733	Citric acid, trisodium salt, dihydrate	6132-04-3	6	20	125	500	Rat ip LD50
734	Coal tar pitch volatiles; (Particulate polycyclic aromatic hydrocarbons)	65996-93-2	0.2	0.6	12.5	80	PEL-TWA, rat it TDlo, IDLH.
735	Coal tar, aerosol	8007-45-2a	0.1	1.25	7.5	40	REL-TWA, rat TClo.
736	Coal tar; (Coal tar volatiles)	8007-45-2b	0.2	80	80	80	PEL-TWA, mouse TClo, IDLH.
737	Cobalt	7440-48-4	0.1	3	20	20	PEL-TWA, LOC, IDLH.
738	Cobalt acetate tetrahydrate; (Cobaltous acetate tetrahydrate)	6147-53-1	3	7.5	60	300	Rat oral LD50
739	Cobalt carbonyl	10210-68-1	0.27	0.27	27	60	As Co, PEL-TWA, LOC, rat 240 min LC50
740	Cobalt chloride	7646-79-9	0.0441	0.132	25	500	As Co, PEL-TWA, child oral TDlo, infant oral LD lo
741	**Cobalt hydrocarbonyl**	**16842-03-8**	0.3	0.3	**0.914**	**2.95**	TLV-TWA, PAC-2/7, **ERPG-2, ERPG-3.**
742	Cobalt hydroxide	21041-93-0	0.0315	0.0946	0.158	0.75	As Co, PEL-TWA.
743	Cobalt nitrate hexahydrate; (Cobaltous nitrate hexahydrate)	10026-22-9	0.0988	0.296	0.5	98.8	As Co, TLV-TWA, IDLH.
744	Cobalt nitrate; (Cobalt(II) nitrate)	10141-05-6	0.0621	0.186	12.5	150	As Co, TLV-TWA, rat oral LD50
745	Cobalt nitrite	32486-57-0	0.0512	0.154	0.256	1.25	As Co, TLV-TWA.

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Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
746	Cobalt oxide	1308-06-1	0.136	0.136	0.136	500	As Co, TLV-TWA, rat oral LD50
747	Cobalt sulfate	10124-43-3	0.0526	0.158	0.263	150	As Co, TLV-TWA, rat oral LD50
748	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.
749	Cobalt tetraphenylporphine	14172-90-8	10	30	50	250	Used PNOS default
750	Cobalt(II) chloride hexahydrate	7791-13-1	0.0808	0.242	20	80.8	As Co, TLV-TWA, rat sc TDlo, IDLH.
751	Cobalt(II) oxide	1307-96-6	0.127	0.127	20	75	As Co, TLV-TWA, rat oral LD50
752	Cobalt(II) perchlorate, hexahydrate	13478-33-6	0.124	0.373	0.621	60	Co inorganic compound TLV-TWA, mouse ip LD50.
753	Cobalt(II) sulfate hydrate	60459-08-7	0.0587	0.176	0.3	58.7	As Co, TLV-TWA, IDLH.
754	Cobalt, ((2,2'-(1,2-ethanediylbis(nitrilomethylidyne))bis(6-fluorophenolato))(2-)-N,N',O,O')-	62207-76-5	0.15	0.4	3	15	LOC, rat 360 min LC50
755	Cobaltous bromide; (Cobalt(II) bromide)	7789-43-7	0.0742	0.223	0.371	150	As Co, TLV-TWA, rat oral LD50
756	Cobaltous carbonate	513-79-1	0.0404	0.121	0.202	250	As Co, TLV-TWA, rat oral LD50
757	Colchicine	64-86-8	0.04	0.125	0.9	0.9	LOC, human oral LD lo.
758	Copper	7440-50-8	1	1	1	100	As Cu, PEL-TWA, IDLH.
759	Copper cyanide	544-92-3	1.41	4.23	7.05	25	As Cu, TLV-TWA, CN IDLH.
760	Copper hydroxide	20427-59-2	1.54	4.61	7.68	400	As Cu, PEL-TWA, rat oral LD50.

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Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
761	Copper nitrate; (Cupric nitrate)	3251-23-8	0.148	0.444	60	295	As Cu, TLV-TWA, IDLH.
762	Copper oxide	1317-39-1	0.113	3.38	15	113	As Cu, PEL-TWA, IDLH.
763	Copper sulfate	7758-98-7	2.51	2.51	6	40	As Cu, TLV-TWA, human oral TDlo, human uk LD lo.
764	Copper(I) chloride; (Cuprous chloride)	7758-89-6	0.0779	0.234	0.4	60	As Cu, TLV-TWA, rat oral LD50.
765	Copper(I) sulfide	22205-45-4	1.25	3.76	6.26	30	As Cu, TLV-TWA.
766	Copper(II) acetate monohydrate	6046-93-1	0.314	7.5	60	300	As Cu, MAK-TWA, rat oral LD50.
767	Copper(II) carbonate hydroxide (2:1:2)	12069-69-1	0.174	0.522	0.87	174	As Cu, MAK-TWA, IDLH.
768	Copper(II) chloride (1:2); (Cupric chloride)	7447-39-4	0.106	0.317	0.529	3	As Cu, TLV-TWA, mouse ip TDlo, mouse ip LD50.
769	Copper(II) chloride dihydrate; (Cupric chloride)	10125-13-0	0.134	0.402	0.671	268	As Cu, TLV-TWA, rat sc TDlo, IDLH.
770	Copper(II) oxalate	814-91-5	2.42	7.25	12.5	242	As Cu, TLV-TWA, IDLH.
771	Copper(II) perchlorate, dihydrate	17031-32-2	4.7	14.1	23.5	23.5	As Cu, TLV-TWA, rat ip LD50.
772	Copper(II) sulfate pentahydrate	7758-99-8	0.393	1.18	150	200	As Cu, MAK-TWA, human oral TDlo, human oral LD lo.
773	Copper(II) sulfide	1317-40-4	1.5	4.51	7.52	150	As Cu, MAK-TWA, IDLH.
774	Corn oil	8001-30-7	200	500	500	500	Pregnant rat oral TDlo, rat oral LD50 minimum. Four day rat oral TDlo ignored.
775	Coumaphos	56-72-4	0.05	0.15	30	125	TLV-TWA, TEEL-0*3, LOC, rat LC50.

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Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
776	Coumarin	91-64-5	0.025	0.075	0.6	125	Woman oral TDlo, rat oral LD50.
777	Coumatetralyl; (Endrocide)	5836-29-3	3	10	16.5	16.5	LOC, rat oral LD50.
778	Creosote (coal tar)	8001-58-9	0.2	0.6	80	80	PEL-TWA, rat oral TDlo, IDLH.
779	Cresols	1319-77-3	20	60	100	1,000	PEL-TWA, LOC, IDLH.
780	Cresyl violet acetate	10510-54-0	10	30	50	250	Used PNOS default.
781	Crimidine; (Castrix)	535-89-7	0.25	0.75	1.2	1.2	LOC, rat oral LD50.
782	Cristobalite	14464-46-1	0.025	0.075	25	25	TLV-TWA, TEEL-0*3, human TClo, IDLH.
783	Crocidolite	12001-28-4	0.005	0.015	5	250	PEL-TWA, REL-C, rat ip LD lo.
784	**Crotonaldehyde, cis-**	**4170-30-3**	0.544	**0.544**	**12.6**	**40.1**	AEGL-1, **AEGL-1, AEGL-2, AEGL-3.**
785	**Crotonaldehyde, trans-**	**123-73-9**	0.15	**0.544**	**12.6**	**40.1**	AEGL-1/3, **AEGL-1, AEGL-2, AEGL-3.**
786	Crotonic Acid	3724-65-0	4	12.5	75	400	Rat oral LD50.
787	Crystal violet; (Aniline violet)	548-62-9	0.075	0.25	1.5	150	Rat ip TDlo, rat oral LD50.
788	Cs7SB; (1-(2,2,3,3-tetrafluoropropoxy),3-(4-sec-butylphenoxy)-2-propanol)	308362-88-1	11.1	30	200	500	Fluoride concentration limits.
789	Cumene hydroperoxide; (Isopropylbenzene hydroperoxide)	80-15-9	6	30	150	150	WEEL-TWA, rat TClo, rat LC50.
790	**Cumene; (Isopropyl benzene)**	**98-82-8**	246	**246**	**1,470**	**3,590**	PEL-TWA, **AEGL-1, AEGL-2, AEGL-3.**

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Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
791	Cumenol methylcarbamate, m-; (3-(1-methylethyl)phenol methylcarbamate)	64-00-6	3	10	16	16	LOC, rat oral LD50.
792	Cupferron; (Ammonium-n-nitrosophenylhydroxylamine)	135-20-6	7.5	25	75	75	Rat oral TDlo, rat oral LD50.
793	Cupric acetate, anhydrous; (Copper acetate)	142-71-2	0.143	0.429	3.5	200	As Cu, TLV-TWA, rat sc TDlo, rat oral LD50.
794	Cupric nitrate hemipentahydrate	19004-19-4	3.8	11.4	19	380	As Cu, TLV-TWA, IDLH.
795	Cupric nitrite	14984-71-5	0.122	0.184	0.6	60	**SAR**
796	Cupric oxide	1317-38-0	0.125	0.376	0.626	125	As Cu, PEL-TWA, IDLH.
797	Cyanamide	420-04-2	2	6	30	35	TLV-TWA, rat oral TDlo, rat 240 min LC lo.
798	Cyanic acid; (Hydrogen cyanate)	420-05-3	0.06	0.2	1.25	6	Human LC50 based on estimated HHR = 3+
799	Cyanide	57-12-5	5	5	5	25	PEL-TWA, IDLH.
800	Cyanoacetamide	107-91-5	6	20	150	500	Mouse oral LD50.
801	Cyanogen	460-19-5	20	20	20	40	TLV-TWA, human TClo, rat 60 min LC50.
802	Cyanogen bromide	506-68-3	20.4	44	44	44	PEL-TWA, LOC, IDLH.
803	**Cyanogen chloride**	**506-77-4**	0.05	0.15	**1**	**10**	PAC-2/21, PAC-2/7, **ERPG-2, ERPG-3.**
804	Cyanogen iodide	506-78-5	35	100	180	180	LOC, rat sc LD lo.
805	Cyanoguanidene	461-58-5	0.5	1.5	10	200	Rat TClo, rat oral LD50.

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Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
806	Cyanophos	2636-26-2	1.25	3.5	25	25	LOC, rat oral LD50
807	Cyanuric acid; (1,3,5-Triazine-2,4,6-triol)	108-80-5	10	10	25	500	WEEL-TWA, rat oral TDlo, rat oral LD50.
808	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.
809	Cyclohexane	110-82-7	1,000	1,000	1,500	4,000	PEL-TWA, IDLH.
810	Cyclohexane-1,2-dinitrilotetraacetic acid, trans-; (CyDTA)	13291-61-7	10	30	50	250	Used PNOS default.
811	Cyclohexanediamine, 1,2-	694-83-7	3	10	60	350	PAC-3/105, PAC-3/35, PAC-3/5, rat 240 min LC lo.
812	Cyclohexanedimethanol, cis and trans, 1,4-	105-08-8	12.5	40	250	500	Rat oral LD50.
813	Cyclohexanol	108-93-0	200	200	200	1,500	PEL-TWA, human TClo, IDLH
814	Cyclohexanone; (Ketohexamethylene)	108-94-1	200	200	200	2,500	PEL-TWA, PAC-2/7, human TClo, IDLH
815	Cyclohexene	110-83-8	1,000	1,000	1,500	6,000	PEL-TWA, rat TClo, IDLH
816	Cycloheximide	66-81-9	0.1	0.3	2	2	LOC, rat oral LD50.
817	**Cyclohexyl isocyanate**	**3173-53-3**	0.02	0.06	0.1	**0.512**	PAC-2/5, PAC-2*3/5, AEGL-3/5, **AEGL-3.**
818	Cyclohexyl methyl phosphonic acid	1932-60-1	10	30	50	250	Used PNOS default.
819	**Cyclohexylamine**	**108-91-8**	7.3	**7.3**	**34.9**	**122**	AEGL-1, **AEGL-1, AEGL-2, AEGL-3**
820	Cyclohexylamino)-1-propanesulfonic acid, 3-(; (CAPS)	1135-40-6	1.25	4	25	125	Quail oral LD50 minimum.

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Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
821	Cyclohexylethanol, 2-	4442-79-9	4	10	75	400	Rat oral LD50.
822	Cyclooctadiene, 1,5-	111-78-4	400	1,250	7,500	40,000	Rat TClo.
823	Cyclooctane	292-64-8	20	60	500	2,500	Estimated LC50.
824	Cyclooctatetraene, 1,3,5,7-	629-20-9	250,000	250,000	1,000,000	1,500,000	Simple asphyxiant
825	Cyclooctene, cis-	931-87-3	3.5	10	60	350	Estimated LD50 based on HHR.
826	Cyclopentane	287-92-3	1,500	5,000	10,000	40,000	TLV-TWA, LOC, rat LC50
827	Cyclopentanone	120-92-3	75	75	400	2,000	Danish OEL, rat LC50.
828	Cyclopropane	75-19-4	300	1,000	6,000	100,000	Human TClo, mouse 120 min LC lo.
829	Cyclotetramethylene tetranitramine; (HMX)	2691-41-0	0.04	0.125	0.75	500	Rat oral TDlo, rat oral LD50.
830	Cyclotol; (RDX-TNT mixture)	8065-53-0	0.2	3	250	250	TLV-TWA, REL-STEL, rat oral TDlo, rat oral LD50.
831	Cyclotrimethylenetrinitramine; (RDX or Cyclonite)	121-82-4	0.5	3	40	40	TLV-TWA, REL-STEL, child oral TDlo, rat oral LD50.
832	Cytidine monophosphate; (Cytidine 5-monophosphate free acid)	63-37-6	7.5	25	150	500	Mouse ip LD lo minimum.
833	Dawsonite; (Crystalline dehydroxy sodium aluminum, carbonate)	12011-76-6	3.5	10	150	500	**SAR**
834	DDD; (1,1-bis(4-Chlorophenyl)-2,2-dichloroethane)	72-54-8	12.5	35	250	500	Rat oral TDlo, human oral LD lo.
835	DDE; (2,2-bis(p-Chlorophenyl)-1,1-dichloroethylene)	72-55-9	4	12.5	75	400	Rat oral TDlo, rat oral LD50.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
836	DDT; (Dichlorodiphenyltrichloroethane)	50-29-3	1	1	2	500	PEL AND TLV-TWA, human oral TDlo, IDLH.
837	DEAE Sepharose CL-6B	57407-08-6	10	30	50	250	Used PNOS default
838	Decaborane	17702-41-9	0.3	0.75	10	15	PEL-TWA, TLV-STEL, LOC, IDLH
839	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.
840	Decahydronaphthalene	91-17-8	2.5	7.5	50	400	Human TClo, rat 240 min LC50.
841	Decahydronaphthalene, cis-; (cis-Decalin)	493-01-6	2.5	7.5	50	400	Human TClo, rat 240 min LC50.
842	Decahydronaphthalene, trans-; (trans-Decalin)	493-02-7	2.5	7.5	50	400	Human TClo, rat 240 min LC50.
843	Decamethylcyclopentasiloxane	541-02-6	15	50	350	500	Pregnant rat subcutaneous TDlo, rat 240 min LC50
844	Decanal	112-31-2	15	40	300	1,500	Rat oral LD50.
845	Decane	124-18-5	0.4	1	7.5	25,000	Mouse skin TDlo, mouse 120 min LC50.
846	Decene, 1-, homopolymer, hydrogenated	68037-01-4	10	30	50	250	Used PNOS default.
847	Decyl alcohol; (1-Decanol)	112-30-1	4	12.5	75	500	Rabbit TClo, rat oral LD50.
848	Demeton	8065-48-3	0.1	0.15	2	10	PEL- and TLV-TWA, LOC, IDLH.
849	Demeton-s-methyl	919-86-8	0.05	0.15	5	200	TLV-TWA, LOC, rat 240 min LC50.
850	Deoxyribonucleac acid; (DNA)	9007-49-2	12.5	35	250	500	Mouse ip LD lo minimum.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
851	Deuterium	7782-39-0	10,000	10,000	35,000	60,000	Simple asphyxiant
852	Deuterium oxide; (Heavy water)	7789-20-0	1,500	5,000	35,000	150,000	Mouse oral TDlo.
853	Deuterochloric acid; (Deuterium chloride)	7698-05-7	3	3	7.5	75	H.Cl MAK-TWA, PEL-C, IDLH.
854	Dextran	9004-54-0	0.35	1	6	500	Women iv TDlo, mouse sc LD50.
855	Dextran sulfate sodium	9011-18-1	15	40	300	500	Rat oral TDlo, rat oral LD50.
856	Di(ethylene glycol) diacrylate	4074-88-8	1	3	20	100	Rat oral LD50
857	Di-2-ethylhexyl adipate	103-23-1	50	150	500	500	Rat ip TDlo, rat oral LD50.
858	Diacetoxydibutyl stannane	1067-33-0	0.296	0.592	7.5	73.9	Sn organic PEL-TWA, TLV-STEL, rat oral TDlo preg, IDLH.
859	Diacetyl peroxide; (Acetyl peroxide)	110-22-5	7.5	20	150	500	Mouse uk TDlo.
860	Dialifor	10311-84-9	1	3	5	5	LOC, rat oral LD50.
861	Diallyl phthalate	131-17-9	1	1	300	300	Other TWA, MAK-STEL, rat oral TDlo, rat oral LD50.
862	Diallyldimethylammonium chloride	7398-69-8	25	75	500	500	Mammal oral TDlo, mouse oral LD50.
863	Diallyldimethylammonium chloride polymer	26062-79-3	12.5	35	250	500	Rat oral TDlo, rat oral LD50.
864	Diaminodiphenyl ether, 4,4'-; (4,4'-Oxydianiline)	101-80-4	0.5	1.5	10	300	Rat oral TDlo, rat oral LD50.
865	Diaminodiphenylsulfone; (4,4'-Sulfonyldianiline)	80-08-0	1	3	20	400	Human oral TDlo, rat oral LD50.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
866	Diaminodipropylamine, 3,3-; (Aminobis(propylamine))	56-18-8	3	7.5	60	300	Rat oral LD50.
867	Diaminopyridine, 2,6-	141-86-6	0.4	1.25	7.5	40	Mouse ip LD50.
868	Diammonium molybdate	27546-07-2	8.81	8.81	8.81	500	Mo soluble compound concentration limits.
869	Diamond	7782-40-3	7.5	20	150	500	Mouse ip TDlo and ip LD50.
870	Dianisidine dihydrochloride, o-; (3,3'-Dimethoxybenzidine dihydrochloride)	20325-40-0	0.1	0.35	2.5	7.5	Rat oral TDlo, rat oral LD lo.
871	Diatomaceous earth (flux calcinated; Filter agent, celite)	68855-54-9	0.3	0.9	1.5	500	MAK-TWA, MAK-TWA*3, MAK-TWA*5, IDLH.
872	Diatomaceous earth; (Silica-amorphous diatomaceous earth (uncalcined))	61790-53-2	6	18	30	500	REL-TWA, IDLH
873	Diatomaceous silica, calcined	91053-39-3	0.3	0.9	1.5	500	MAK-TWA, IDLH.
874	Diazabicyclo(2,2,2)octane, 1,4-	280-57-9	1	3	20	500	Rat oral TDlo, rat oral LD50.
875	Diazabicyclo(5.4.0)undec-7-ene, 1,8-	6674-22-2	1.5	5	35	150	Rat oral LD50 based on HHR = 3.
876	Diazoacetic acid; (Ethyl diazoacetate)	623-73-4	0.2	0.6	4	150	Rat oral TDlo, rat oral LD50.
877	Diazomethane	334-88-3	0.35	1	3.5	3.5	PEL-TWA, rat TClo, IDLH.
878	Dibenza(a,h)anthracene	53-70-3	0.0008	0.0025	0.015	15	Rat sc TDlo, mouse iv LD lo.
879	Dibenzo(a,e)pyrene; (Naphtho(1,2,3,4-def)chrysene)	192-65-4	0.005	0.015	0.1	0.5	Mouse skin TDlo.
880	Dibenzofuran	132-64-9	10	30	50	250	PNOS default used.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
881	Dibenzo-p-dioxin	262-12-4	1.5	4	30	500	Mouse skin TDlo, rat oral LD50.
882	**Diborane**	**19287-45-7**	0.1	0.15	**1.1**	**4.19**	PEL-TWA, AEGL-2/7, **AEGL-2, AEGL-3**
883	Dibromo-3-chloropropane, 1,2-; (DBCP)	96-12-8	0.01	0.75	5	150	PEL-TWA, rat TClo, rat 480 min LC50.
884	Dibromo-4-nitrophenol, 2,6-	99-28-5	0.4	1.25	10	50	Mouse iv LD50.
885	Dibromochloromethane; (Chlorodibromomethane)	124-48-1	2	6	40	150	Mouse oral TDlo, rat oral LD50.
886	Dibromohexane, 1,6-	629-03-8	1	3.5	20	100	Mouse ip LD50.
887	Dibromomethane; (Methylene dibromide)	74-95-3	60	200	1,500	7,500	PAC-2/21, PAC-2/7, rat TClo, rat 120 min LC50.
888	Dibromophenol, 2,6-	608-33-3	0.5	0.5	2.5	2.5	**SAR**
889	Dibromopropane, 1,3-	109-64-8	2	6	40	200	Mouse ip LD50.
890	Dibromotetrafluoroethane; (Halon 2402)	124-73-2	1,500	5,000	35,000	150,000	Rat 120 min LC50.
891	Dibutyl (2-ethylhexyl)phosphate	z-0011	2.5	7.5	7.5	7.5	**SAR**
892	Dibutyl butylphosphonate	78-46-6	0.4	1.25	10	50	Mouse iv LD50.
893	Dibutyl peroxide, tert-	110-05-4	7.5	20	150	2,500	Rat TClo, rat 240 min LC50.
894	Dibutyl phosphate	107-66-4	7.5	15	40	250	ILV-TWA, TLV-STEL, IDLH.
895	Dibutyl phosphite	1809-19-4	12.5	40	250	500	Rat oral LD50.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
896	Dibutyl phthalate	84-74-2	5	15	500	500	PEL-TWA, rat ip TDlo, IDLH.
897	Dibutylboron triflate; (Dibutylboryl trifluoromethanesulfonate)	60669-69-4	12	36.1	60.1	500	Fluoride concentration limis.
898	Dibutylhexamethylenediamine, N,N'-	4835-11-4	1	3	22	75	LOC, rat 240 min LC50.
899	Dichloran; (2,6-Dichloro-4-nitroaniline; Resisan)	99-30-9	0.004	0.0125	0.075	500	Mouse oral TDlo, rat oral LD50.
900	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.
901	**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.**
902	**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**
903	Dichloro-2-butene 1,4-	764-41-0	0.025	0.075	12.5	750	TLV-TWA, rat TClo, mouse 240 min LC50.
904	Dichloro-2-propanol, 1,3-	96-23-1	30	100	250	250	Mouse TClo, rat 240 min LC lo.
905	Dichloro-2-trifluoromethylbenzimidazole, 4,5-; (Chloroflurazole)	3615-21-2	2.5	7.5	13	13	LOC, rat oral LD50.
906	Dichloroacetic acid	79-43-6	2.5	50	400	1,250	TLV-TWA, rat oral TDlo, rat oral LD50.
907	**Dichloroacetyl chloride**	**79-36-7**	0.075	**0.241**	**9.64**	**313**	AEGL-1/3, **AEGL-1, AEGL-2, AEGL-3.**
908	Dichloroacetylene	7572-29-4	2	6	15	15	TLV-C, mouse 360 min LC50.
909	Dichloroamine; (Chlorimide)	3400-09-7	1	3	20	100	Rat oral TDlo.
910	Dichlorobenzene, m-	541-73-1	4	12.5	75	400	Mouse ip LD50.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
911	Dichlorobenzene, o-	95-50-1	150	300	300	1,250	TLV-TWA, TLV-STEL, PEL-C, IDLH.
912	Dichlorobenzene, p-	106-46-7	60	60	150	750	PEL-TWA, PAC-2/7, human oral TDlo, IDLH.
913	Dichlorobenzidene 3,3'-	91-94-1	2	6	40	2,000	Rat oral TDlo, rat oral LD50.
914	Dichlorocyclohexane, 1,1-	2108-92-1	1.5	4	35	150	**SAR**
915	Dichlorocyclohexane, trans-1,2-	822-86-6	75	250	500	500	Estimated rat TClo, mouse 120 min LC50.
916	Dichlorodifluoromethane; (Freon 12, CFC 12)	75-71-8	5,000	15,000	50,000	75,000	PEL-TWA, EEGL-60 min. IDLH.
917	Dichloroethanol acetate, 1,2-	10140-87-1	2	6	10	40	LOC, rat 240 min LC lo.
918	Dichloroethyl ether; (1,1'-Oxybis(2-chloro)ethane)	111-44-4	30	60	150	600	TLV-TWA, TLV-STEL, LOC, IDLH.
919	Dichloroethylaluminum	563-43-9	9.41	9.41	9.41	9.41	TLV-TWA as Al, soluble salts.
920	Dichloroethylbenzene; (Ethyldichlorobenzene)	1331-29-9	20	60	500	500	Rat oral LD50.
921	Dichloroethylene, 1,2-	540-59-0	750	2,500	4,000	4,000	PEL-TWA, IDLH
922	**Dichloroethylene, cis-1,2-**	**156-59-2**	555	**555**	**1,980**	**3,370**	AEGL-1, **AEGL-1, AEGL-2, AEGL-3.**
923	**Dichloroethylene, cis-and trans-1,2-**	**156-60-5**	750	**1,110**	**3,960**	**6,740**	TLV-TWA, **AEGL-1, AEGL-2, AEGL-3.**
924	Dichlorofluoromethane; (Freon 21, CFC 21)	75-43-4	40	125	400	20,000	TLV-TWA, EEGL60 min, IDLH.
925	Dichlorohexane, 1,2-	2162-92-7	1.5	5	40	200	**SAR**

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Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
926	Dichloroisopropyl ether	108-60-1	25	75	500	2,500	Rat 300 min LC lo.
927	Dichloromethane-d2	1665-00-5	75	600	2,500	12,500	Used mehylene chloride values, D2 replacing H2.
928	Dichloromethoxy ethane; (bis(2-Chloroethoxy)methane)	111-91-1	5	15	40	40	Rat oral TDlo, rat 240 min LC lo.
929	**Dichloromethyl ether; (bis(Chloromethyl)ether)**	**542-88-1**	0.004	0.03	**0.207**	**0.846**	TLV-TWA, AEGL-2/7, **AEGL-2, AEGL-3.**
930	Dichloromethylphenylsilane	149-74-6	1	3	20	20	LOC, mouse 120 min LC lo.
931	Dichloromethylphosphine; (Methylphosphonous dichloride)	676-83-5	0.5	1.5	10	50	Rat 240 min LC50, based on SAX hazard rating
932	Dichlorophene	97-23-4	6	15	125	500	Rat oral LD50.
933	**Dichlorophenol, 2,4-**	**120-83-2**	1.34	**1.34**	**13.4**	**134**	ERPG-1, **ERPG-1, ERPG-2, ERPG-3.**
934	Dichlorophenol, 2,6-	87-65-0	1.5	5	35	150	Rat ip LD50.
935	Dichlorophenoxyacetic acid, 2,4-; (2,4-D)	94-75-7	10	10	40	100	PEL-TWA, rat oral TDlo, rat oral LD50.
936	Dichloropropane	26638-19-7	40	1,250	1,500	1,500	Propylene dichloride limits used.
937	Dichloropropane, 1,1-	78-99-9	15	50	400	2,000	Rat 240 min LC lo.
938	Dichloropropane, 1,2-; (Propylene dichloride)	78-87-5	40	1,250	1,500	1,500	TL V-TWA, mouse TClo, IDLH.
939	Dichloropropane, 1,3-	142-28-9	25	75	500	1,500	Rat oral TDlo, mouse uk LD50..
940	Dichloropropane, 2,2-	594-20-7	20	60	400	2,000	Rat 360 min LC lo minimum.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
941	Dichloropropene, 1,1-	563-58-6	4	12.5	20	750	OEL-TWA, rat oral LD50.
942	Dichloropropene, 1,2-	563-54-2	7.5	25	150	750	Rat oral LD50
943	Dichloropropene, 1,3-	542-75-6	4	60	250	250	TLV-TWA, mouse TClo, rat 240 min LC50.
944	Dichloropropene, 2,3-	78-88-6	2	6	50	250	Rat 240 min LC lo.
945	Dichloropropene, cis-1,2-; (1,2-dichloro-1-propene, (Z)-)	6923-20-2	7.5	25	150	750	Rat oral LD50.
946	Dichloropropene, cis-1,3-	10061-01-5	4	60	250	250	TLV-TWA, mouse TClo, rat LC50.
947	Dichloropropene, trans-1,3-	10061-02-6	4	6	50	250	TLV-TWA, mouse TClo, rat LC50.
948	**Dichlorosilane**	**4109-96-0**	1.25	**3.72**	**45.4**	**206**	AEGL--1/3, **AEGL-1, AEGL-2, AEGL-3.**
949	Dichlorotetrafluoroethane	1320-37-2	6,000	20,000	100,000	100,000	PEL-TWA, IDLH.
950	Dichlorotetrafluoroethane, 1,2-; (Freon 114, CFC 114)	76-14-2	6,000	20,000	100,000	100,000	PEL-TWA, IDLH.
951	Dichlorovos; (Dichlorvos)	62-73-7	7.5	7.5	20	750	PEL-TWA, LOC, IDLH.
952	Dicrotophos	141-66-2	0.05	0.15	0.9	40	TLV-TWA, LOC, rat 240 min. LC50.
953	Dicyclohexano-18-crown-6	16069-36-6	0.2	0.6	4	75	Rat oral TDlo, rat oral LD50.
954	Dicyclohexyl; (Cyclohexylcyclohexane)	92-51-3	7.5	25	150	500	Rat oral LD50 based on assumed HHR.
955	Dicyclohexylcarbodiimide	538-75-0	0.0035	0.01	0.06	100	Mouse skin TDlo, rat 360 min LC50.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
956	**Dicyclopentadiene**	**77-73-6**	0.11	**0.11**	**27**	**406**	ERPG-1, **ERPG-1, ERPG-2, ERPG-3.**
957	Didecyldimethylammonium chloride	7173-51-5	1.5	5	35	35	Rat oral TDlo, rat oral LD50.
958	Dieldrin	60-57-1	0.25	0.75	2.5	50	PEL-TWA, rat oral TDlo, IDLH.
959	Diesel fuel marine; (Diesel fuel No. 4)	z-0012	100	350	500	500	TLV-TWA, mu sk TDlo, rat oral LD50
960	Diesel fuel marine; (Fuel oil No.2)	68476-30-2	100	100	100	500	TLV-TWA, mu sk TDlo, rat oral LD50
961	Diesel fuels	68334-30-5	100	100	500	500	TLV-TWA, rat oral LD50.
962	Diethanolamine	111-42-2	2	150	300	300	TLV-TWA, rat oral TDlo, rat oral LD50.
963	Diethenylbenzene, polymer with ethenylbenzene and ethenylethylbenzene, sulfonated; (Dowex 50-X8 resin)	69011-20-7	10	30	50	250	Used PNOS default.
964	Diethoxydimethylsilane	78-62-6	30	75	600	3,000	Rat 480 min LC50.
965	Diethyl (methylthiomethyl) phosphonate	28460-01-7	0.4	1.25	7.5	40	Rat oral LD50 based on Methyl demeton methyl,
966	**Diethyl benzene isomers; (Dowtherm J)**	**25340-17-4**	25	**55**	**550**	**2,750**	WEEL-TWA, **ERPG-1, ERPG-2, ERPG-3.**
967	Diethyl carbonate	105-58-8	12.5	40	300	1,500	Mouse oral TDlo, rat subcutaneous LD50.
968	Diethyl chlorophosphate	814-49-3	0.4	1	8	8	LOC, rat oral LD50.
969	Diethyl ethylphosphonate	78-38-6	2	6	40	500	Rat oral TDlo, rat orsl LD50.
970	Diethyl malonate; (Ethyl malonate)	105-53-3	60	150	1,250	6,000	Rat oral LD50.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
971	Diethyl mercury	627-44-1	0.0129	0.0387	0.0516	2.58	As Hg, PEL-TWA, TLV-STEL, PEL-C, IDLH.
972	Diethyl methylphosphonate; (DEMP)	683-08-9	7.5	25	200	500	Mouse ip LD50.
973	Diethyl oxalate	95-92-1	1.5	5	35	150	Rat oral LD50.
974	Diethyl phosphite	762-04-9	15	50	350	500	Rat oral LD50
975	Diethyl phthalate; (Ethyl phthalate)	84-66-2	5	15	100	500	TLV-TWA, human TClo, rat oral LD50.
976	Diethyl pyrocarbonate	1609-47-8	10	30	200	500	Rat 60 min LC lo.
977	Diethyl sulfate	64-67-5	0.4	1.25	10	150	Female rat iv TDlo, rat 240 min LC lo.
978	Diethyl tartrate	87-91-2	10	30	50	250	PNOS default used.
979	Diethyl telluride	627-54-3	0.1	0.3	6	10	OEL-TWA; rat TClo, rat LC50
980	Diethylamine	109-89-7	40	40	200	600	PEL-TWA, TLV-STEL, rat TClo, IDLH.
981	Diethylaminoacetone	1620-14-0	2.5	7.5	50	250	**SAR**
982	Diethylaminopropylamine	104-78-9	2	6	50	250	Rat oral LD50.
983	Diethylaniline, N,N-	91-66-7	3	10	60	350	Rat oral LD50.
984	Diethylbenzene, m-	141-93-5	40	125	500	500	Rat oral LD lo.
985	Diethylbenzene, o-	135-01-3	1.5	5	35	500	Rat oral TDlo, rat oral LD lo.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
986	**Diethyldichlorosilane**	**1719-53-5**	2	**5.78**	**70.6**	**321**	AEGL-1/3, **AEGL-1, AEGL-2, AEGL-3.**
987	Diethylene glycol	111-46-6	10	200	750	750	WEEL-TWA, child oral TDlo, human oral LD lo.
988	Diethylene glycol di(3-aminopropyl) ether; (Polyglycol diamine)	4246-51-9	15	50	350	500	Rat oral LD50.
989	Diethylene glycol diacetate; (2,2'-oxybisethanol diacetate)	628-68-2	100	300	500	500	Rat oral LD lo.
990	Diethylene glycol dimethyl ether; (Bis(2-methoxy ethyl)ether)	111-96-6	25	75	125	2,000	MAK-TWA, rat oral TDlo, rat oral LD50.
991	Diethylene glycol hexyl ether; (n-Hexyl carbitol)	112-59-4	7.5	25	150	500	Rabbit skin TDlo, rat oral LD50
992	Diethylenetriamine	111-40-0	4	4	6	400	TLV-TWA, rabbit oral TDlo, rat oral LD50.
993	Diethylenetriaminepentaacetic acid	67-43-6	2	6	50	250	Mouse ip LD50.
994	Diethylethanolamine, N,N-; (Diethylaminoethanol)	100-37-8	50	50	100	500	PEL-TWA, PAC-2/7, human TClo, IDLH.
995	Diethylphosphatoethyltriethoxy silane	757-44-8	75	200	500	500	Rat oral LD50.
996	Diethylstilbestrol; ((E)-4,4'-(1,2-diethyl-1,2-ethenediyl)bisphenol)	56-53-1	0.025	0.075	0.6	15	Women oral TDlo, rat ip LD 50.
997	Diethylthiourea, N,N'-	105-55-5	0.6	1.5	12.5	125	Rat oral TDlo, rat oral LD50.
998	Diethylurea, 1,3-	623-76-7	25	75	500	2,500	Mouse ip LD lo.
999	Diethylzinc	557-20-0	10	20	20	50	Estimated TLV-TWA, TLV-STEL, and rat LC50
1000	**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.**

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1001	Digitoxin	71-63-6	0.0075	0.025	0.18	0.25	LOC, human oral LD lo.
1002	Diglycidyl Ether	2238-07-5	0.05	50	50	50	TLV-TWA, LOC, mouse 240 min LC50.
1003	Diglycol monoethyl ether acetate; (Carbitol acetate)	112-15-2	40	125	500	500	Rat oral LD50.
1004	Digoxin	20830-75-5	0.04	0.125	0.2	0.35	LOC, infant iv LD lo.
1005	Dihexyl((diethylcarbamoyl)methyl)phosphonate; (Dihexyl-N,N-diethylcarbamoylmethyl phosphonate)	7369-66-6	4	12.5	75	400	Rat oral LD50.
1006	Dihydro-2(3H)-furanone; (4-Butanolide)	96-48-0	2	6	40	500	Rat oral TDlo, rat oral LD50.
1007	Dihydro-2H-pyran, 3,4-	110-87-2	1.25	4	30	150	Estimated rat 240 min LC50 based on HR.
1008	Dihydro-3-(Nonenyl)-2,5-furandione	28928-97-4	10	30	50	250	Used PNOS default.
1009	Dihydro-4-methyl furan, 2,3-	34314-83-5	1.5	5	35	150	Rat 240 min LC50 based on methyl furan.
1010	Dihydrogen hexachloroplatinate; (Chloroplatinic acid)	16941-12-1	0.0042	0.0126	1.5	8.4	As Pt, PEL-TWA, IDLH.
1011	Dihydroxy-1,3-indandione, 2,2-; (Ninhydrin monohydrate)	485-47-2	0.3	1	6	35	Mouse ip LD50
1012	Dihydroxy-2-butene, 1,4-; (2-Butene-1,4-diol)	110-64-5	5	15	100	500	Rat oral LD50.
1013	Dihydroxyanthraquinone, 1,8-	117-10-2	25	75	200	200	Rat oral TDlo, mouse ip LD50.
1014	Dihydroxybenzoic acid, 2,4-	89-86-1	1	3	20	350	Preg rat sc TDlo, mouse ip LD50 minimum.
1015	Dihydroxynaphthalene-2,7-disulfonic acid, disodium salt dihydrate, 4,5-	5808-22-0	10	30	50	250	Used PNOS default.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1016	Diiodomethane; (Methylene iodide)	75-11-6	75	200	500	500	Child oral LD lo.
1017	Diisoamylamine	544-00-3	30	100	150	750	TLV-TWA by analogy with related butyl compounds
1018	Diisobutyl ketone	108-83-8	300	300	300	3,000	PEL-TWA, human TClo. IDLH.
1019	Diisobutylaluminum hydride; (Diisobutylhydroaluminum)	1191-15-7	60	150	300	5,000	Guinea pig 60 min LC lo.
1020	Diisobutylamine	110-96-3	1	3	20	100	Rat oral LD50.
1021	Diisooctyl acid phosphate	27215-10-7	7.5	25	150	500	Estimated rat oral LD50.
1022	Diisopropyl methylphosphonate	1445-75-6	3.5	10	75	350	Rat oral LD50.
1023	Diisopropyl peroxydicarbonate	105-64-6	7.5	25	150	500	Rat oral LD50.
1024	Diisopropylamine	108-18-9	20	20	150	750	PEL-TWA, IDLH.
1025	Diisopropylamino)ethyl chloride hydrochloride, 2-(-	4261-68-1	0.0125	0.035	0.25	1.25	Rat 240 min LD50.
1026	Diisopropylaminoethanol, 2-; (N,N-Diisopropyl ethanolamine)	96-80-0	2.5	7.5	50	250	Rat 360 min LC50.
1027	Diisopropylaniline, 2,6-	24544-04-5	35	100	500	500	Rat oral TDlo, rat oral LD50.
1028	Diisopropylbenzene, 1,3-	99-62-7	150	500	500	500	Rat TClo, rat 120 min LC lo.
1029	Diisopropylethylamine, N,N-	7087-68-5	10	30	200	1,000	Rat 240 min LC50 assumed from HHR = 2.
1030	Diisopropylfluorophosphate; (Phosphorofluoridic acid, bis(1-methylethyl) ester)	55-91-4	0.75	2	3.6	3.6	LOC, human oral LD lo.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1031	Diisopropylnaphthalene; (Bis(isopropyl)naphthalene)	38640-62-9	12.5	40	300	500	Mouse oral LD50.
1032	**Diketene; (Ketene dimer)**	**674-82-8**	1	**3.44**	**20.6**	**61.9**	ERPG-1/3, **ERPG-1**, **AEGL-2, AEGL-3**
1033	Dilauroyl peroxide	105-74-8	0.003	0.01	0.06	0.35	Mouse skin TDlo.
1034	Dimefox; (bis(Dimethylamido)fluorophosphate))	115-26-4	0.2	0.6	1	1	LOC, rat 10 min LC50
1035	Dimethoate	60-51-5	6	15	30	30	LOC, human oral LD50.
1036	Dimethoxybenzene, 1,3-	151-10-0	3.5	10	75	400	Mouse ip LD50
1037	Dimethoxybenzene, o-	91-16-7	3.5	10	75	400	Rat oral LD50.
1038	Dimethoxybenzidene 3,3'-; (o-Dianisidine)	119-90-4	1.25	4	25	500	Rat oral TDlo, rat oral LD50.
1039	Dimethoxybutane, 1,3-	10143-66-5	40	100	750	4,000	Rat 240 min LC lo.
1040	Dimethoxybutane, 2,2-	3453-99-4	35	100	750	4,000	Estimted rat 240 min LC lo.
1041	Dimethoxydiphenylsilane	6843-66-9	0.15	0.5	3.5	15	Rat 240 min LC minimum.
1042	Dimethoxyethane, 1,2-	110-71-4	12.5	40	300	4,000	Mouse oral TDlo, rat 360 min LC lo.
1043	Dimethoxypropane, 2,2-	77-76-9	1.5	5	35	150	Rat 240 min LC50 based on HHR = 3.
1044	Dimethyglyoxime; (Diacetyldioxime)	95-45-4	2	6	40	200	Rat oral LD lo.
1045	Dimethyl butane, 2,2-	75-83-2	1,500	1,500	1,500	7,500	TLV-TWA, TLV-STEL, REL-C

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1046	Dimethyl carbamoyl chloride	79-44-7	0.02	0.06	10	500	TLV-TWA, rat TClo, rat 360 min LC50.
1047	Dimethyl carbonate	616-38-6	50	150	1,000	5,000	Rat oral LD50
1048	Dimethyl cyclopentanol, 1,3-	19550-46-0	10	30	50	250	Used PNOS default.
1049	**Dimethyl disulfide**	**624-92-0**	0.04	**0.04**	**193**	**963**	ERPG-1, **ERPG-1, ERPG-2, ERPG-3.**
1050	Dimethyl hydrogen phosphite	868-85-9	20	60	400	500	Rat oral TDlo, rat oral LD50.
1051	Dimethyl mercury	593-74-8	0.0115	0.0345	0.046	2.3	PEL-TWA, TLV-STEL, PEL-C, IDLH.
1052	Dimethyl methylphosphonate; (DMMP)	756-79-6	100	350	500	500	Mouse oral TDlo, rat oral LD50.
1053	Dimethyl phosphorochloridothioate	2524-03-0	1.5	4	32	150	LOC, rat oral LD50.
1054	Dimethyl siloxane; (Dimethylpolysiloxane; Syltherm XLT; Syltherm 800; Silicone 360)	63148-62-9	15	50	350	500	Pregnant rat TDlo, rat oral LD50 minimum.
1055	**Dimethyl sulfate**	**77-78-1**	0.124	**0.124**	**0.619**	**8.25**	AEGL-1, **AEGL-1, AEGL-3, AEGL-3.**.
1056	**Dimethyl sulfide; (2-Thiopropane)**	**75-18-3**	25	350	**2,540**	**12,700**	TLV-TWA, ERPG-2/7, **ERPG-2, -3.**
1057	Dimethyl sulfone	67-71-0	20	60	400	500	Rat oral LD50 minimum.
1058	Dimethyl sulfoxide; (DMSO)	67-68-5	750	750	750	6,000	WEEL-TWA, human iv TDlo, rat oral LD50.
1059	Dimethyl(1-phenylethyl)benzene	40766-31-2	4	12.5	75	500	Rat oral TDlo, rat oral LD50.
1060	Dimethyl(polysiloxane); (Polydimethylsiloxane, silanol terminated; Dimethylsiloxane, poly, hydroxy end-blocked)	70131-67-8	250	500	500	500	Rat oral LD50 minimum.

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Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1061	Dimethyl-1,3-dioxolane-4-methanol, 2,2-	100-79-8	30	75	600	3,000	Rat oral LD50
1062	Dimethyl-1,3-propanediamine, N,N-; (1-Amino-3-dimethylaminopropane)	109-55-7	10	30	200	750	Rat oral TDlo, rat oral LD50
1063	Dimethyl-1-butanamine, N,N-	927-62-8	200	500	500	500	Rat 240 min LC lo.
1064	Dimethyl-2-pentene, (E)-3,4-	4914-92-5	1.5	5	35	150	Rat oral 240 min LC50 based on HHR.
1065	Dimethyl-3-nitrobenzene, 1,2-	83-41-0	10	30	50	250	Used PNOS default.
1066	Dimethyl-3-pentanone, 2,4-	565-80-0	25	75	500	4,000	Human 180 min TClo, rat 240 min LC50.
1067	Dimethyl-5-phenylphenazinium chloride, 3,7-diamino-2,8-; (Safranine; Gossypimine)	477-73-6	0.25	0.75	5	25	Rat iv LD50.
1068	Dimethylacetamide, N,N-	127-19-5	35	250	1,000	1,000	PEL-TWA, rat TClo, IDLH
1069	Dimethylacrylamide, N,N-	2680-03-7	0.6	1.5	12.5	200	Rat skin TDlo, mouse oral LD50.
1070	**Dimethylamine**	**124-40-3**	18.4	**18.4**	**122**	**461**	AEGL-1, **AEGL-1, AEGL-2, AEGL-3.**
1071	Dimethylamino)benzaldehyde, p-(	100-10-7	7.5	25	150	250	Rat ipTDlo, rat ip LD50.
1072	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
1073	Dimethylaminoazobenzene, 4-	60-11-7	15	50	75	75	Mouse ip TDlo, rat oral LD50.
1074	Dimethylaminoethanol, 2-	108-01-0	40	125	600	600	Rat TClo, rat 240 min LC50.
1075	Dimethylaminoethyl chloride hydrochloride, 2-	4584-46-7	0.6	2	15	100	Rat oral TDlo, rat oral LD50.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1076	Dimethylammonium N,N-dimethylcarbamate	4137-10-4	1.5	5	35	150	Rat oral LD50 based on assumed HHR - 3.
1077	Dimethylaniline, N,N-	121-69-7	25	50	50	500	PEL-TWA, TLV-STEL, rat TClo, IDLH.
1078	Dimethylbenzidene 3,3'-; (o-Tolidine)	119-93-7	0.1	0.3	2	100	REL-C, rat ip LD50.
1079	Dimethylbutyric acid, 2,2-	595-37-9	7.5	25	150	500	Rat oral LD50 based on HHR = 2.
1080	**Dimethylchlorosilane; (Chlorodimethylsilane)**	**1066-35-9**	2	**6.96**	**85.1**	**387**	AEGL-1/3, **AEGL-1, AEGL-2, AEGL-3.**
1081	Dimethylcyclohexane, cis-1,4-	624-29-3	3.5	10	60	350	Estimated rat oral LD50.
1082	Dimethyldecane, 2,2-	17302-37-3	350	350	1,500	7,500	NIOSH limits for Alkanes used
1083	**Dimethyldichlorosilane**	**75-78-5**	1.5	**4.75**	**68.6**	**280**	AEGL-1/3, **AEGL-1, AEGL-2, AEGL-3.**
1084	Dimethyldicyclopentadiene	26472-00-4	7.5	25	200	500	Rat TClo, rat oral LD50.
1085	Dimethyldimethoxysilane	1112-39-6	20	60	400	500	Rat 240 LC lo minimum.
1086	Dimethylethyl hydroperoxide, 1,1-; (tert-Butylhydroperoxide)	75-91-2	3	10	60	200	Guinea pig TClo, rat oral LD50.
1087	**Dimethylformamide, N,N-**	**68-12-2**	6	**6**	**272**	**1,580**	ERPG-1, **ERPG-1, AEGL-2, AEGL-3.**
1088	Dimethylheptane, 2,2-	1071-26-7	350	350	1,500	7,500	NIOSH limits for Alkanes used.
1089	Dimethylhexane, 3,3-	563-16-6	350	350	1,500	7,500	NIOSH limits for Alkanes used.
1090	**Dimethylhydrazine, 1,1-**	**57-14-7**	1.25	1.25	**7.37**	**27**	PEL-TWA, PEL-TWA, **AEGL-2, AEGL-3**

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1091	**Dimethylhydrazine, 1,2-**	**540-73-8**	1.5	4	**7.37**	**27**	AEGL-2/5, AEGL-2*3/5, **AEGL-2, AEGL-3**
1092	Dimethylimidizole, 1,2-	1739-84-0	4	12.5	75	400	Mouse ip LD50.
1093	Dimethylisopropylamin, n,n-	996-35-0	1	3	5	25	MAK-TWA concentration limit.
1094	Dimethylnonane, 4,5.	17302-23-7	750	1,500	1,500	1,500	Estimated TWA and STEL based on nonane-butane ratio.
1095	Dimethyloctane, 3,5-	15869-93-9	600	1,000	3,000	15,000	Estimated TWA and STEL based on octane-butane ratio.
1096	Dimethylphenol, 2,4-; (2,4-Xylenol)	105-67-9	0.3	1	6	500	Mouse skin TDlo, rat oral LD50.
1097	Dimethylphenol, 2,6-; (2,6-Xylenol)	576-26-1	0.75	2	15	125	Rat TClo, rat oral LD50.
1098	Dimethylphthalate	131-11-3	5	15	75	500	PEL-TWA, pregnant rat TDlo, IDLH
1099	Dimethylpolysilane; (Poly(dimethylsilane))	28883-63-8	0.75	2.5	10	25	Concentration limits based on Trimethoxysilane ERPGs (times 5)
1100	Dimethyl-p-phenylenediamine, N,N-	99-98-9	0.025	0.075	0.13	1	LOC, rabbit 240 min LC lo.
1101	Dimethylpropane, 2,2-; (Neopentane)	463-82-1	1,500	1,500	1,500	150,000	PEL-TWA, REL-C, mouse 120 min LC lo.
1102	Dimethylpyridine, 2,4-; (2,4-Lutidine)	108-47-4	0.75	2.5	15	75	Rat oral LD50.
1103	Dimethyltetramethoxydisiloxane, 1,3-	18186-97-5	10	30	50	250	Used PNOS default.
1104	Dimetilan	644-64-4	5	15	25	25	LOC, rat oral LD50.
1105	Di-N-amylamine	2050-92-2	0.4	1.25	7.5	40	Rat 240 min LC lo.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1106	Di-n-butylamine	111-92-2	1.25	3.5	25	250	WEEL-C, rat 240 min LC lo.
1107	Dinitraniline orange; (Hansa orange RN)	3468-63-1	10	30	50	250	Used PNOS default.
1108	Dinitroaniline, 2,4-	97-02-9	0.035	0.1	0.75	12.5	Pregnant rat TClo, rat oral LD50.
1109	Dinitrobenzene, m-	99-65-0	1	3	5	50	PEL-TWA, rat oral TDlo, IDLH.
1110	Dinitrobenzene, o-	528-29-0	1	3	5	50	PEL-TWA, IDLH.
1111	Dinitrobenzene, p-	100-25-4	1	3	5	50	PEL-TWA, IDLH.
1112	Dinitro-o-cresol, 4,6-	534-52-1	0.2	0.2	0.5	5	PEL-TWA, LOC, IDLH.
1113	Dinitrophenol	25550-58-7	0.25	0.75	5	25	Rat oral LD lo.
1114	Dinitrophenol, 2,3-	66-56-8	0.75	2	15	75	Rat ip LD50.
1115	Dinitrophenol, 2,4-	51-28-5	1.5	5	30	30	Rat oral TDlo, human oral LD lo.
1116	Dinitrophenol, 2,6-	573-56-8	0.15	0.4	3	15	Rat ip LD50.
1117	Dinitro-p-toluidine, 2,6-; (4-Amino-3,5-dinitrotoluene)	6393-42-6	2.5	7.5	50	250	Mouse iv LD50
1118	Dinitrosopiperazine; (Piperazine, 1,4-dinitroso-)	140-79-4	0.5	1.5	10	60	Mouse oral TDlo, rat oral LD 50.
1119	Dinitrotoluene	25321-14-6	0.2	0.6	12.5	50	TLV-TWA, IDLH.
1120	Dinitrotoluene, 2,4-	121-14-2	0.2	0.6	30	50	TLV-TWA, IDLH.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1121	Dinitrotoluene, 2,6-	606-20-2	0.2	0.6	6	50	TLV-TWA, IDLH.
1122	Dinitrotoluene, 3,4-	610-39-9	0.2	0.6	10	50	TLV-TWA, IDLH.
1123	Dinoseb; (2-sec-Butyl-4,6-dinitrophenol)	88-85-7	0.75	2.5	4.5	10	LOC, cat 180 min LC lo.
1124	Dinoterb; (2-(1,1-Dimethylethyl)-4,6-dinitrophenol)	1420-07-1	5	15	25	25	LOC, rat oral LD50.
1125	Dioctyl phthalate, n-	117-84-0	15	50	400	500	Rat ip TDlo, rat oral LD50.
1126	Dioctyl sebacate; (Bis(2-ethylhexyl) sebacate)	122-62-3	7.5	20	150	500	Rat iv LD50.
1127	Dioctyl sodium sulfosuccinate; (Di-(2-ethylhexyl) sodium sulfosuccinate)	577-11-7	7.5	20	150	500	Rat oral TDlo, rat oral LD50.
1128	**Dioxane, 1,4-**	**123-91-1**	61.2	**61.2**	**1,150**	**2,740**	AEGL-1, **AEGL-1, AEGL-2, AEGL-3.**
1129	Dioxathion	78-34-2	0.1	0.3	3.4	150	TLV-TWA, LOC, rat 60 min LC50.
1130	Dioxin; (TCDD; 2,3,7,8-tetrachlorodibenzo-p-dioxin)	1746-01-6	0.0006	0.0015	0.0075	0.0075	Human skin TDlo, rat oral LD50.
1131	Dioxolane, 1,3-	646-06-0	60	60	200	15,000	TLV-TWA, LOC, mouse 120 min LC50.
1132	Dipentaerythritol; (Dipentek)	126-58-9	10	30	50	250	Used PNOS default.
1133	Dipentyl pentylphosphonate	6418-56-0	25	75	500	500	Rat oral LD lo minimum.
1134	Diphacinone; (Diphenadione)	82-66-6	0.15	0.5	0.9	500	LOC, rat 240 min LC50.
1135	Diphenyl mercury	587-85-9	0.177	0.177	0.177	17.7	TLV-TWA, TLV-TWA, PEL-C, IDLH.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1136	Diphenyl o-cresol phosphate; (Diphenyl cresol phosphate)	26444-49-5	2.5	7.5	50	500	Guinea pig skin TDlo, rat oral LD50.
1137	**Diphenyl; (Biphenyl)**	**92-52-4**	1.25	7.5	**60.5**	100	PEL-TWA, AEGL-2/7, **AEGL-2,** IDLH**.**
1138	Diphenylamine	122-39-4	10	30	125	125	TLV-TWA, rat oral TDlo. Guinea pig oral LD50.
1139	**Diphenylchloroarsine; (Chlorodiphenylarsine)**	**712-48-1**	0.39	0.39	**0.39**	**1.2**	AEGL-2, AEGL-2, **AEGL-2, AEGL-3.**
1140	**Diphenyldichlorosilane**	**80-10-4**	3	**9.31**	**114**	**517**	AEGL-1/3, **AEGL-1, AEGL-2, AEGL-3.**
1141	Diphenylguanidine, 1,3-	102-06-7	0.2	0.6	4	125	Mouse oral TDlo, rat oral LD50.
1142	Diphenylhydrazine, 1,2-	122-66-7	0.2	0.6	4	125	Rat oral TDlo, rat oral LD50.
1143	Diphenylmethane	101-81-5	7.5	25	200	500	Rat oral LD50
1144	Diphenylnitrosamine	86-30-6	7.5	25	150	500	Rat oral TDlo, rat oral LD50.
1145	Diphenyloxazole, 2,5-	92-71-7	3	7.5	60	300	Mouse ip LD50.
1146	Dipicolinic acid; (2,6-Pyridinedicarboxylic acid)	499-83-2	10	30	50	250	Used PNOS default.
1147	Dipotassium cadmium oxide	z-0013	0.0099	0.0594	0.1	17.8	PEL-TWA, TLV-TWA, IDLH.
1148	Dipotassium dihydrogen silicate	z-0014	10	30	50	250	Used PNOS default.
1149	Dipotassium metasilicate	10006-28-7	6	15	125	500	**SAR**
1150	Dipropyl ketone; (4-Heptanone)	123-19-3	200	200	300	1,500	TLV-TWA, rat 360 min LC50.

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Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1151	Dipropylamine	142-84-7	15	50	350	500	Rat 240 min LC50.
1152	Dipropylene glycol methyl ether	34590-94-8	600	750	1,500	3,500	PEL-TWA, TLV-STEL, rat oral LD50.
1153	Direct Black 38; (Apomine black GX)	1937-37-7	25	75	500	500	Mouse oral TDlo, rat 60 min LC lo.
1154	Di-sec-octylphthalate	117-81-7	5	10	75	500	TLV-TWA, REL-STEL, mouse oral TDlo, IDLH.
1155	Disodium (2-ethylhexyl)phosphate	15505-13-2	0.02	0.06	0.4	2	**SAR**
1156	Disodium 3,6-endoxohexahydrophthalate	129-67-9	1	3	20	20	Rat oral TDlo, rat oral LD50.
1157	Disodium butylphosphate	64114-42-7	0.02	0.06	0.4	2	**SAR**
1158	Disodium cadmium oxide	z-0016	0.0085	0.0508	0.0847	15.2	PEL-TWA, TLV-TWA, IDLH.
1159	Disodium dihydrogen silicate	z-0017	10	30	50	250	Used PNOS default.
1160	Disodium ethylenediaminediacetate (S and U isomers)	38011-25-5	4	12.5	75	400	**SAR**
1161	Disodium hexafluorosilicate (2-)	16893-85-9	4.12	4.12	5	5	Fluoride PEL-TWA, human oral LD lo.
1162	Disodium iminodiacetate	928-72-3	35	100	600	3,500	Rat oral LD50
1163	Disulfiram	97-77-8	2	2	3	125	TLV-TWA, women oral TDlo, human oral LD lo.
1164	Disulfoton	298-04-4	0.05	0.15	2	75	TLV-TWA, LOC, rat 240 min LC50.
1165	Di-tert-butyl dicarbonate	24424-99-5	0.4	1.25	7.5	40	Rat 240 min LC50

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1166	Di-tert-butylhydroquinone, 2,5-	88-58-4	12.5	40	250	400	Rat oral TDlo, mouse oral LD50.
1167	Dithiazanine iodide; (3,3'-Diethylpentamethinethiacyanine iodide)	514-73-8	4	12.5	20	20	LOC, mouse oral LD50.
1168	Dithiobiuret	541-53-7	1	3	5	5	LOC, rat oral LD50.
1169	Dithiodiethanol, 2,2-; (Dithiodiglycol)	1892-29-1	0.75	2	15	75	Rat oral LD50.
1170	Dithioerythritol, 1,4-	6892-68-8	1.25	4	25	125	Mouse intramuscular LD50.
1171	Diurethane dimethacrylate	72869-86-4	75	250	500	500	Rat oral toxicity based on HHR.
1172	Divinylbenzene, m-; (m-Vinylstyrene)	108-57-6	50	50	400	2,000	REL-TWA, mean rat oral LD50.
1173	Divinylbenzene, mixed isomers; (Vinylstyrene)	1321-74-0	50	60	400	2,000	TLV-TWA, rat oral LD50.
1174	Dodecamethylcyclohexasiloxane	540-97-6	10	30	50	500	**SAR**
1175	Dodecane	112-40-3	0.125	0.35	2.5	150	Rabbit skin TDlo, rat 480 min LC50 minimum.
1176	Dodecanethiol, 1-; (Dodecyl mercaptan; Lauryl mercaptan)	112-55-0	0.75	2.5	4	20	TLV-TWA, REL-C
1177	Dodecen-1-yl)succinic anhydride, (2-; (DDSA)	19780-11-1	10	30	50	250	PNOS default used.
1178	Dodecenylsuccinic anhydride	25377-73-5	5	15	100	500	Rat 240 min LC lo.
1179	Dodecyl alcohol	112-53-8	0.4	1	7.5	500	Mouse skin TDlo, rat oral LD50.
1180	Dodecyl methacrylate	142-90-5	50	150	1,000	5,000	Rat ip LD50.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1181	Dodecylbenzene sulfonic acid; (Laurylbenzenesulfonic acid)	27176-87-0	2.5	7.5	50	250	Rat oral LD50.
1182	Dodecylphenol, 4- (mixture of isomers)	27193-86-8	7.5	25	150	500	Rat oral TDlo, rat oral LD50.
1183	Dodecylsarcosine sodium salt, N-; (N-laurel sarcosine sodium salt)	7631-98-3	1.5	4	30	150	Mouse iv LD50.
1184	**Dodecyltrichlorosilane**	**4484-72-4**	2.5	**7.45**	**90.6**	**410**	AEGL-1/3, **AEGL-1, AEGL-2, AEGL-3.**
1185	Dodenyl succine anhydride; (Tetrapropenylsuccinic anhydride)	26544-38-7	10	30	200	500	Rat oral LD50
1186	Dowex 50WX4 (50-400 ion exchange resin)	11113-61-4	10	30	50	250	Used PNOS default.
1187	Dv methyl ester; (Methyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate)	61898-95-1	10	30	50	250	PNOS TLV-TWA default used.
1188	Dysprosium	7429-91-6	10	30	50	250	PNOS default used.
1189	Dysprosium nickelide	12175-27-8	10	30	50	250	Used PNOS default.
1190	Dysprosium nitrate	10143-38-1	10	30	200	500	Rat oral LD50.
1191	Dysprosium oxide; (Dysprosium(III) oxide)	1308-87-8	20	60	400	500	Rat oral LD50 minimum.
1192	Ecolite	z-0018	20	60	400	500	Rat oral LD50.
1193	Emetine dihydrochloride, l-	316-42-7	0.05	0.15	0.25	0.25	LOC, women sc LD lo.
1194	Endosulfan	115-29-7	0.1	0.3	0.8	35	TLV-TWA, LOC, rat 240 min LC50.
1195	Endothion	2778-04-3	3.5	10	17	17	LOC, rat oral LD50.

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Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1196	Endrin	72-20-8	0.1	0.3	2	2	PEL-TWA, LOC, IDLH.
1197	Epibatadine (nicotine-like)	z-0019	0.0015	0.004	0.025	0.025	Rat ip TDlo, rat ip LD50.
1198	Epibromohydrin	3132-64-7	1.25	3.5	25	125	Mouse ip LD50.
1199	**Epichlorohydrin**	**106-89-8**	1.5	**21.6**	**90.8**	**272**	TLV-TWA, **AEGL-1, AEGL-2, AEGL-3.**
1200	Epinephrine; (Vasotonin; (R)-4-(1-Hydroxy-2-(methylamino)ethyl)-1,2-benzenediol)	51-43-4	0.25	0.25	0.25	0.25	Human oral TDlo, human subcutaneous LD lo.
1201	EPN; (O-Ethyl-O-(4-nitrophenyl) phenylthiophosphonate)	2104-64-5	0.5	0.5	5	5	PEL-TWA, LOC, IDLH.
1202	Epoxy resin (EPON 1001)	25068-38-6a	125	350	500	500	Rat oral LD50.
1203	Epoxy resin (EPON 1007)	25068-38-6b	125	350	500	500	Rat oral LD50.
1204	Epoxy resin (EPON 820)	25068-38-6c	50	150	500	500	Rat oral LD50.
1205	Epoxy resin ERL-2795	25068-38-6d	4	12.5	100	500	Rat oral LD50.
1206	Epoxy resin, cured; (4,4'-(1-Methylethylidene)biscyclohexanol, polymer with (chloromethyl)oxirane)	30583-72-3	10	30	50	250	Used PNOS default.
1207	Epoxy resin; (Bisphenol A-Bisphenol A diglycidyl ether polymer))	25036-25-3	7.5	25	150	500	Rat oral LD50 estimated from HHR = 2.
1208	Epoxy resin; (Epichlorhydrin, polymer with diethylene glycol)	25928-94-3	0.06	0.2	1.25	6	Rat 240 min LC lo.
1209	Epoxybutane, 1,2- ; (1,2-Butylene oxide)	106-88-7	6	200	600	600	WEEL-TWA, rat TClo, rat 240 min LC50.
1210	Epoxyethyl)-7-oxabicyclo(4.1.0)heptane, 3-(; (Vinyl cyclohexene dioxide)	106-87-6	0.6	2	12.5	500	TLV-TWA, rat skin TDlo, rat 240 min LC50.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1211	Erbium nitrate pentahydrate	10031-51-3	10	30	50	250	Used PNOS default.
1212	Erbium(III) nitrate	10168-80-6	0.2	0.6	5	25	Rat iv LD50.
1213	Erbium(III) nitrate hexahydrate	13476-05-6	1	3	20	100	Rat oral LD50.
1214	Erbium(III) oxide	12061-16-4	20	60	400	500	Rat oral LD50 minimum.
1215	Ergocalciferol; (Vitamin D2)	50-14-6	7.5	25	40	40	LOC, rat oral LD50.
1216	Ergotamine tartrate	379-79-3	2	6	10	60	LOC, rat iv LD50.
1217	Estane; (Polyurethane resin; Urethane rubber)	61789-63-7	10	30	50	250	Used PNOS default.
1218	Ethane	74-84-0	1,250	3,500	6,000	30,000	TLV-TWA
1219	Ethanedioic acid, dimethyl ester	553-90-2	4	12.5	75	400	Rat oral LD minimum.
1220	Ethanedithiol, 1,2-	540-63-6	1.25	4	30	150	Mouse oral LD50.
1221	Ethanediyl)bisbenzene, 1,1'-(1,2-; (Bibenzyl)	103-29-7	15	50	400	500	Rat oral LD50.
1222	Ethanediylbis(N-(carboxymethyl)glycine), N,N'-1,2-, dipotassium salt	2001-94-7	1.5	5	40	200	Mouse ip LD50.
1223	Ethanediylbis(oxy))bisbenzene, 1,1'-(1,2-	104-66-5	10	30	50	250	Used PNOS default.
1224	**Ethanethiol; (Ethyl mercaptan)**	**75-08-1**	1.25	**2.54**	**305**	**914**	TLV-TWA, **AEGL-1, AEGL-2, AEGL-3.**
1225	Ethanol, titanium(4+) salt	3087-36-3	10	30	50	250	Used PNOS default.

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Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1226	Ethanolamine	141-43-5	7.5	15	75	75	PEL-TWA, TLV-STEL, rat oral TDlo, IDLH.
1227	Ethenylsilanetriol triacetate	4130-08-9	10	30	50	250	Used PNOS default.
1228	Ethidium bromide; (2,7-Diamino-10-ethyl-9-phenylphenanthridinium bromide)	1239-45-8	0.15	0.5	4	20	Mouse sc LD50.
1229	Ethion	563-12-2	0.05	0.15	13	350	TLV-TWA, LOC, rat 240 min LC50.
1230	Ethoxyethanol, 2-	110-80-5	15	50	750	1,500	TLV-TWA, rat TClo, IDLH.
1231	Ethoxyethoxy)ethanol, 2-(2-; (Carbitol cellosolve; Diethylene glycol monoethyl ether)	111-90-0	125	150	1,000	2,000	WEEL-TWA, human TDlo, rat oral LD50
1232	Ethoxyethyl methacrylate, 2-	2370-63-0	4	12.5	75	400	Estimated rat oral LD50.
1233	Ethoxyethylacetate, 2-	111-15-9	25	400	2,500	2,500	TLV-TWA, rat TClo, IDLH.
1234	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.
1235	Ethoxylated alcohols, C16-18; (Nonionic surfactant)	68439-49-6	5	15	100	500	Rat oral LD50.
1236	Ethoxylated alcohols, C7-C21	68991-48-0	10	10	10	10	Used PNOS default.
1237	Ethoxylated nonylphenol; (Nonyl phenyl polyethylene glycol ether)	9016-45-9	5	15	100	500	Rat oral LD50.
1238	Ethyhexyloxy)ethanol, 2-(2-	1559-35-9	100	350	500	500	Rat oral TDlo, rat oral LD50
1239	Ethyl (or dimethyl) pyrrolidine	z-0020	5	15	100	500	**SAR**
1240	Ethyl acetate	141-78-6	1,500	1,500	1,500	7,500	PEL-TWA, human TClo, IDLH.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1241	Ethyl acetoacetate	141-97-9	15	50	350	500	Rat oral LD50
1242	**Ethyl acrylate**	**140-88-5**	20	**34**	**147**	**982**	TLV-TWA, **AEGL-1, AEGL-2, AEGL-3.**
1243	Ethyl alcohol; (ethanol)	64-17-5	1,500	5,000	6,000	6,000	PEL-TWA, woman oral TDlo, IDLH.
1244	Ethyl alcohol-d; (Ethanol-d)	925-93-9	2,000	6,000	6,000	6,000	Used ethanol (64-17-5) PEL-TWA, IDLH.
1245	Ethyl amyl ketone; (5-Methyl-3-heptanone; 3-Octanone)	106-68-3	125	125	125	500	PEL-TWA, IDLH.
1246	Ethyl benzene	100-41-4	400	500	500	3,500	PEL-TWA, TLV-STEL, human TClo, IDLH.
1247	Ethyl benzoate	93-89-0	7.5	25	150	500	Rat oral LD50
1248	Ethyl bromoacetate	105-36-2	0.006	0.02	0.125	0.6	Mouse skin TDlo.
1249	Ethyl butyl ketone; (3-Heptanone)	106-35-4	200	350	750	4,000	PEL-TWA, TLV-STEL, IDLH.
1250	Ethyl cellulose	9004-57-3	20	60	400	500	Rat oral LD50 minimum.
1251	Ethyl chloride	75-00-3	250	5,000	10,000	10,000	PEL-TWA, rat TClo, IDLH.
1252	Ethyl chloroacetate	105-39-5	0.75	2	15	75	Rat oral LD50.
1253	**Ethyl chloroformate**	**541-41-3**	4	4	**7.1**	**21.3**	UK OEL-TWA, OEL-TWA, **AEGL-2, AEGL-3.**
1254	**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**
1255	Ethyl ether	60-29-7	1,250	1,500	1,500	6,000	PEL-TWA, TLV-STEL, human TClo, IDLH.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1256	Ethyl formate	109-94-4	300	750	1,500	4,000	PEL-TWA, IDLH concentration limits.
1257	Ethyl hexanoic acid, 2-; (Butyl ethyl acetic acid)	149-57-5	5	15	125	500	TLV-TWA, PAC-2/7, regnant rat TDlo, rat oral LD50.
1258	Ethyl lactate; (Ethyl (s)-(-)-lactate)	687-47-8	15	40	300	500	Mouse oral LD50.
1259	Ethyl mercury chloride; (Chloroethyl mercury)	107-27-7	0.0132	0.0396	0.0529	2.64	PEL-TWA, TLV-STEL, PEL-C, IDLH.
1260	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.
1261	Ethyl nitrite	109-95-5	2	6	40	200	Rat 240 min LC50.
1262	Ethyl O-2-diisopropylaminoethylmethylphosphonite, O-; (QL)	57856-11-8	10	30	50	250	Used PNOS default.
1263	Ethyl propionate	105-37-3	35	100	750	4,000	Rat oral LD50.
1264	Ethyl S,S-dipropylphosphorodithioate, O-; (Mocap PC-84; Ethoprophos)	13194-48-4	0.25	0.75	5	15	Chicken oral TDlo, rat oral LD50.
1265	Ethyl silicate polymer; (Silicic acid, ethyl ester)	11099-06-2	10	30	50	250	PNOS TLV-TWA default used.
1266	Ethyl-1,3-hexanediol, 2-; (Ethyl hexylene glycol)	94-96-2	75	250	1,500	4,000	Rat oral TDlo, rat 480 min LC lo minimum.
1267	**Ethyl-1-hexanol, 2-**	**104-76-7**	0.53	**0.53**	**639**	**1,209**	ERPG-1, **ERPG-1, ERPG-2, ERPG-3.**
1268	Ethyl-2-methylheptane, 3-	14676-29-0	75	250	2,000	10,000	Estimated rat LD50
1269	Ethyl-2-methyloctane, 6-	62016-19-7	2	6	40	200	PAC-3/105, PAC-3/35, PAC-3/5, undecane rat oral LD50.
1270	Ethyl-2-oxazoline, 2-	10431-98-8	0.4	1.25	7.5	40	PAC-3/105, PAC-3/35/ PAC-3/5, rat 240-min LC50 (based on estimated HHR = 3).

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1271	Ethyl-4-hydroxybenzoate; (p-Hydroxybenzoic acid ethyl ester)	120-47-8	250	500	500	500	Rat oral TDlo, mouse oral LD50.
1272	Ethyl-5-methylheptane, 3-	52896-90-9	0.4	1	7.5	25,000	Mouse skin TDlo, mouse 120 min LC50.
1273	Ethyl-6-methyl-4-phenyl-3-cyclohexene-1-carboxylic acid sodium salt, 5-; (Mebane sodium salt)	16550-39-3	0.001	0.003	0.02	0.1	Rat oral TDlo.
1274	**Ethylamine; (Monoethylamine; Ethylamine anhydrous)**	**75-04-7**	13.8	**13.8**	**90.3**	**498**	AEGL-1, **AEGL-1, AEGL-2, AEGL-3.**
1275	Ethylbenzaldehyde, 2-	22927-13-5	50	150	1,000	6,000	Estimated rat LC50
1276	**Ethylbis(2-chloroethyl)amine; (Bis(2-chloroethyl)ethylamine; Nitrogen mustard-1)**	**538-07-8**	0.004	0.0125	**0.022**	**0.37**	AEGL-2/5, AEGL-2*3/5, **AEGL-2, AEGL-3.**
1277	**Ethylchlorothioformate**	**2941-64-2**	0.25	0.75	**1.41**	**4.28**	AEGL-2/5, AEGL-2*3/5, **AEGL-2, AEGL-3.**
1278	**Ethyldichloroarsine; (Dichloroethylarsine)**	**598-14-1**	0.029	0.029	**0.029**	**0.086**	AEGL-2, AEGL-2, **AEGL-2, AEGL-3.**
1279	Ethylene	74-85-1	200	600	10,000	10,000	TLV-TWA, mouse TClo, mouse 5 min LC lo.
1280	**Ethylene chlorohydrin; (2-Chloroethanol)**	**107-07-3**	3	3	**13.2**	**39.5**	MAK-TWA, TEEL-0, **AEGL-2, AEGL-3.**
1281	**Ethylene dibromide; (Dibromoethane)**	**106-93-4**	131	**131**	**184**	**353**	AEGL-1. **AEGL-1, AEGL-2, AEGL-3.**
1282	**Ethylene dichloride; (1,2-Dichloroethane)**	**107-06-2**	202	**202**	**810**	**1,210**	PEL-TWA, **ERPGs-1, ERPG-2, ERPG-3.**
1283	Ethylene fluorohydrin; (2-Fluoroethanol)	371-62-0	0.0125	0.035	0.06	3.5	LOC, rat 10 min LC50.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1284	Ethylene glycol	107-21-1	25	25	100	150	MAK-TWA, EEGL-60 min, EEGL-30 min
1285	Ethylene glycol diacetate	111-55-7	25	75	500	500	Rat TClo, rat oral LD50.
1286	Ethylene glycol dimethacrylate	97-90-5	12.5	40	300	500	Rat oral LD50.
1287	Ethylene glycol monomethyl ether acetate; (EGMEA; 2-Methoxyethyl acetate)	110-49-6	0.5	1.5	25	1,000	TLV-TWA, human TClo, IDLH.
1288	Ethylene glycol monomethyl ether; (2-Methoxyethanol; EGME; Methyl Cellosolve(R))	109-86-4	0.3	1	7.5	600	TLV-TWA, human TClo, IDLH.
1289	Ethylene glycol monopropyl ether; (Propyl cellosolve; Ektasolve EP)	2807-30-9	15	50	350	4,000	Rat TClo, rat 240 min LC50.
1290	Ethylene glycol mono-sec-butyl ether	7795-91-7	3	10	60	350	Rat oral LD50.
1291	**Ethylene oxide; (Oxirane)**	**75-21-8**	1.5	7.5	**81**	**360**	PEL-TWA, PEL-STEL, **AEGL-2, AEGL-3.**
1292	Ethylene/vinyl acetate copolmer	24937-78-8	10	30	50	250	Used PNOS default.
1293	Ethylenediamine dihydrochloride	333-18-6	0.1	0.3	2	60	Rat oral TDlo, rat im LD50.
1294	**Ethylenediamine, 1,2-**	**107-15-3**	23.8	23.8	**23.8**	**49.1**	AEGL-2, AEGL-2, **AEGL-2, AEGL-3**
1295	Ethylenediaminetetraacetic acid, disodium salt	139-33-3	60	150	500	500	Pregnant rat oral TDlo, rat oral LD50.
1296	Ethylenediaminetetraacetic acid, disodium salt, dihydrate	6381-92-6	10	30	50	250	Used PNOS default.
1297	Ethylenediaminetetraacetic acid, ferric ammonium salt	21265-50-9	2.5	7.5	50	250	Mouse intraperotoneal LD50.
1298	Ethylenediaminetetraacetic acid, tetrasodium salt, dihydrate	10378-23-1	7.5	25	150	500	Estimated rat oral LD50 from HHR.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1299	Ethylenediaminetetraacetic acid, tetrasodiumn salt; (Tetrasodium EDTA)	64-02-8	40	125	500	500	Rat oral LD50.
1300	Ethylenediaminetetraacetic acid; (EDTA)	60-00-4	40	125	150	150	Pregnant rat oral TDlo, rat ip LD50.
1301	Ethylenedinitrilo)tetra-2-propanol, 1,1',1'',1'''-(	102-60-3	15	50	350	500	Mammalian LD50.
1302	**Ethyleneimine**	**151-56-4**	0.75	1	**8.1**	**17.4**	TLV-TWA, AEGL-2/7. **AEGL-2, AEGL-3.**
1303	Ethylenethiourea; (2-Imidazolidinethione)	96-45-7	0.75	2.5	15	500	Pregnant rat TClo, rat oral LD50.
1304	Ethylheptane, 4-	2216-32-2	15	50	350	1,500	Estimated rat oral LD 50 based on HHR.
1305	Ethylhexyl acrolate, 2-; (Acrylic acid, 2-ethylhexyl ester)	103-11-7	4	12.5	75	75	Rat TClo, Mouse LC lo.
1306	Ethylhexyl bromide, 2-	18908-66-2	10	30	50	250	Used PNOS default.
1307	**Ethylhexylchloroformate, 2-**	**24468-13-1**	0.35	1	**7.64**	**22.8**	AEGL-2/21, AEGL-2/7, **AEGL-2, AEGL-3.**
1308	Ethylidene chloride, 1,1-; (1,1-Dichloroethane)	75-34-3	400	1,250	12,500	12,500	PEL-TWA, rat TClo, IDLH.
1309	**Ethylidene norbornene**	**16219-75-3**	0.3	**0.982**	**491**	**2,460**	ERPG-1/3, **ERPG-1, ERPG-2, ERPG-3.**
1310	Ethylmagnesium chloride; (Chloroethyl magnesium)	2386-64-3	10	30	50	250	PNOS default used.
1311	**Ethyl-S-dimethylaminoethyl methylphosphonothiolate; (VX nerve agent)**	**50782-69-9**	0.0001	**0.0002**	**0.003**	**0.01**	AEGL-1/3, **AEGL-1, AEGL-2, AEGL-3**
1312	Ethylthiocyanate	542-90-5	20	60	100	100	LOC, mouse ip LD50.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1313	Ethyltoluene, o-	611-14-3	500	500	500	500	Rat TClo, mouse 240 min LC50.
1314	Ethyltoluene, p-	622-96-8	500	500	500	500	Rat TClo, mouse 240 min LC50.
1315	Europium	7440-53-1	10	30	50	250	Used PNOS default.
1316	Europium nitrate; (Europium trinitrate)	10138-01-9	15	50	350	500	Rat oral LD50.
1317	Europium oxide	1308-96-9	20	60	400	500	PAC-3/105, PAC-3/35, PAC-3/5, rat oral LD50 minimum.
1318	Europium(II) iodide	22015-35-6	10	30	50	250	PNOS default used.
1319	Farnesol	4602-84-0	25	75	500	500	Rat oral LD50
1320	Fatty acids, tall-oil, polymers with glycerol, pentaerythritol and phthalic anhydride	66070-62-0	10	30	50	250	PNOS TLV-TWA
1321	Fenamiphos	22224-92-6	0.05	0.15	0.9	40	TLV-TWA, LOC, rat 240 min LC50.
1322	Fensulfothion	115-90-2	0.01	0.03	2	12.5	
1323	Fenthion	55-38-9	0.05	0.15	40	40	TLV-TWA, TEEL=0*3, women oral TDlo, human LD lo.
1324	Ferric ammonium citrate	1185-57-5	1	3	500	500	TLV-TWA as Fe, 3*TEEL-0, rat oral TDlo, rat oral LF50 minimum.
1325	Ferric ammonium sulfate dodecahydrate	7783-83-7	8.64	25.9	43.2	200	Fe soluble salts TLV-TWA.
1326	Ferric ammonium sulfate; (Sulfuric acid, ammonium iron(3e+) salt (2:1:1))	10138-04-2	4.82	14.5	25	125	
1327	Ferric chloride	7705-08-0	2.9	3.5	25	125	Fe concentration limits, rat repro TDlo, oral LD50

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1328	Ferric chloride hexahydrate	10025-77-1	4.84	75	100	100	Fe concentration limits, rat 14W TDlo mouse ip LD50
1329	Ferric fluoride	7783-50-8	14.8	40	300	500	
1330	Ferric hydroxide; (Iron(III) hydroxide)	1309-33-7	3.5	10	75	400	PAC-3/105, PAC-3/35, PAC-3/5, rabbit oral LD.
1331	Ferric nitrate	10421-48-4	4.33	13	21.7	100	TLV-TWA, TEEL-0*3, TEEL-0*5, PAC-2*5
1332	Ferric nitrate nonahydrate; (Iron(III) nitrate nonahydrate (1:3:9))	7782-61-8	7.24	21.72	250	500	TLV-TWA, TEEL-0*3, TEEL-0*5, rat oral LD50.
1333	Ferric phosphate	10045-86-0	2.75	8.26	13.8	60	TLV-TWA, TEEL-0*3, TEEL-0*5, PAC-2*5
1334	Ferric sulfate; (Iron(III) sulfate)	10028-22-5	3.58	10.7	17.9	75	TLV-TWA, TEEL-0*3, TEEL-0*5, mouse ip LD lo.
1335	Ferrous ammonium sulfate	10045-89-3	5.09	15.3	25.4	125	
1336	Ferrous carbonate	563-71-3	15	40	300	500	PAC-3/105, PAC-3/35, PAC-3/5, mouse oral LD50.
1337	Ferrous chloride	7758-94-3	2.27	6.81	11.3	200	
1338	Ferrous disulfide; (Iron disulfide)	12068-85-8	2.15	6.44	10.7	50	Iron concentration limits.
1339	Ferrous hydroxide; (Iron(III) hydroxide)	18624-44-7	1.61	4.83	8.05	400	TLV-TWA, 3*TEEL-0, 5*TEEL-0, rabbit oral LD.
1340	Ferrous sulfamate	14017-39-1	1	3	5	25	
1341	Ferrous sulfate	7720-78-7	2.72	8.16	13.6	350	Fe TLV-TWA, child oral LD lo.
1342	Ferrous sulfate heptahydrate	7782-63-0	4.98	14.9	25	500	

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Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1343	Fibrous glass; (Fiber glass; Glass frit; Synthetic vitreous fibers)	65997-17-3	5	15	60	500	
1344	Fluenetil	4301-50-2	1.25	3.5	6	6	PAC-2/5, PAC-2*3/5, LOC, rat oral LD50.
1345	Fluoboric acid; (Tetrafluoroboric acid)	16872-11-0	2.89	2.89	7.5	40	
1346	Fluoranthene	206-44-0	0.004	0.01	0.075	500	
1347	Fluorene, 9H-	86-73-7	7.5	25	150	500	
1348	Fluorides (as F)	16984-48-8	2.5	2.5	2.5	250	
1349	**Fluorine**	**7782-41-4**	0.15	**2.64**	**7.75**	**20.2**	PEL-TWA, **AEGL-1, AEGL-2, AEGL-3.**
1350	Fluoro-2-nitrobenzene, 1-; (o-Fluoronitrobenzene)	1493-27-2	7.5	25	150	500	Rat oral LD50 based on HHR = 2.
1351	Fluoro-4-nitrophenol, 2-	403-19-0	0.75	2.5	15	75	**SAR**
1352	Fluoro-6-nitrophenol, 2-	1526-17-6	0.75	2.5	15	75	**SAR**
1353	Fluoroacetamide	640-19-7	1	3.5	5.8	5.8	PAC-2/5, PAC-2*3/5, LOC, human oral LDlo.
1354	Fluoroacetic acid, sodium salt; (Sodium fluoroacetate)	62-74-8	0.05	0.15	0.5	2.5	
1355	Fluoroacetic acid; (Fluoroethanoic acid)	144-49-0	0.075	0.25	0.47	2	
1356	Fluoroacetyl chloride	359-06-8	2	6	10	10	
1357	Fluoroaniline, p-	371-40-4	1.5	5	35	150	Rat oral LD50.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1358	Fluorobenzene	462-06-6	125	350	500	500	
1359	**Fluorosulfonic acid; (Fluorosulfuric acid)**	**7789-21-1**	2	**2**	**10**	**30**	PAC-1, **ERPG-1, ERPG-2, ERPG-3.**
1360	Fluorotrimethylsilane	420-56-4	10	30	200	1,000	
1361	Fluorouracil	51-21-8	0.75	2.5	19	100	
1362	Fonofos	944-22-9	0.01	0.03	1.3	200	TLV-TWA, LOC, rat 60 min LC50.
1363	Food Red 15; (FD&C Red No. 19)	81-88-9	0.4	1.25	7.5	50	
1364	Forane	26675-46-7	15,000	35,000	35,000	35,000	TClo and LC50 r inhalation data
1365	**Formaldehyde**	**50-00-0**	0.35	**1.1**	**17.2**	**68.7**	PEL-TWA, **AEGL-1, AEGL-2, AEGL-3.**
1366	Formaldehyde cyanohydrin; (Hydroxyacetonitrile; Glycolonitrile)	107-16-4	0.3	0.75	6	10	
1367	Formamide	75-12-7	15	35	250	2,500	
1368	Formetanate hydrochloride	23422-53-9	3.5	10	18	18	
1369	Formic acid	64-18-6	7.5	15	15	50	PEL-TWA, TLV-STEL, human TClo, IDLH.
1370	Formic acid, 2-propenyl ester; (Allyl formate)	1838-59-1	4	12.5	75	400	
1371	Formic acid, butyl ester; (n-Butyl formate)	592-84-7	200	600	4,000	4,000	
1372	Formothion	2540-82-1	0.05	0.15	0.27	10	

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1373	Formparanate	17702-57-7	1.5	4	7.2	7.2	
1374	Formylpiperidine, 1-	2591-86-8	15	50	400	400	Rat oral TDlo preg, rat oral LD50.
1375	Fosthietan	21548-32-3	0.75	2.5	4.7	4.7	
1376	Fuberidazole	3878-19-1	0.6	2	3.3	125	
1377	Fuel oil, residual	68476-33-5	35	100	500	500	
1378	Fuller's earth	8031-18-3	5	6	500	500	
1379	Fulminic acid; (Carbyloxime)	506-85-4	1	3	20	100	Human LC50 based on HHR = 3
1380	Fumaric acid	110-17-8	40	100	500	500	
1381	**Furan**	**110-00-9**	3.5	10	**18.9**	**52.9**	AEGL-2/5, AEGL-2*3/5, **AEGL-2, AEGL-3.**
1382	**Furancarboxaldehyde, 2-; (Furfural)**	**98-01-1**	8	**8**	**39**	**393**	ERPG-1, **ERPG-1, ERPG-2, ERPG-3.**
1383	Furancarboxylic acid, ethyl ester, 2-; (Ethyl furoate)	614-99-3	1.5	4	30	150	
1384	Furfuryl alcohol	98-00-0	60	60	60	300	
1385	Fusariotoxin T2; (T2-Trichothecene)	21259-20-1	0.0015	0.004	0.03	0.4	
1386	Gadolinium	7440-54-2	500	500	500	500	
1387	Gadolinium chloride hexahydrate	13450-84-5	40	75	75	75	Rat oral TDlo, mouse iv LD50.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1388	Gadolinium hydroxide	16469-18-4	0.75	0.75	2.5	75	**SAR**
1389	Gadolinium nitrate, solid	10168-81-7	10	30	50	500	
1390	Gadolinium nitrite	z-0022	0.04	0.125	0.75	75	**SAR**
1391	Gadolinium(III) oxide	12064-62-9	2	6	50	500	
1392	Gallic acid monohydrate	5995-86-8	15	50	350	500	Rat oral LD50.
1393	Gallium	7440-55-3	10	30	50	250	
1394	Gallium oxide	12024-21-4	10	30	50	500	
1395	Gallium trichloride	13450-90-3	6	20	32	100	
1396	Gallium trifluoride	7783-51-9	5.56	16.7	27.8	125	
1397	Gasoline	8006-61-9	750	1,500	1,500	4,000	TLV-TWA, -STEL, human TClo, rat LC50
1398	Gelatin; (Pharmagel A)	9000-70-8	2.5	7.5	60	300	
1399	Germane; (Germanium tetrahydride)	7782-65-2	0.6	1.5	3	500	
1400	Germanium	7440-56-4	0.0125	0.035	0.25	500	Human oral TDlo, rat oral LD50.
1401	Germanium oxide	1310-53-8	0.75	2	15	500	
1402	Germanium tetrafluoride	7783-58-6	4.89	12.5	100	489	PEL-TWA and IDLH concentration limits for F

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1403	Germanous acid	z-0023	2	6	40	200	
1404	Giemsa's stain; (… blood stain)	51811-82-6	10	30	50	250	
1405	Gluconic acid, D-	526-95-4	10	30	50	250	PNOS default used.
1406	Glucose monohydrate, D(+)-; (Dextrose)	14431-43-7	10	30	50	250	Used PNOS default.
1407	Glucose, alpha-D-; (alpha-Dextrose)	492-62-6	0.4	1.25	7.5	500	Women iv TDlo, rat oral LD50.
1408	Glucose, D-; (Dextrose, anhydrous)	50-99-7	0.4	1.25	7.5	500	Women iv TDlo, rat oral LD50.
1409	Glutamic acid, L-; ((S)-(+)-Glutamic acid)	56-86-0	2	6	40	200	
1410	**Gluteraldehyde**	**111-30-8**	0.2	**0.82**	**4.1**	**20.5**	MAK-TWA, **ERPG-1, ERPG-2, ERPG-3.**
1411	Glycerine (mist); (Glycerol, glycerin)	56-81-5	15	125	500	500	
1412	Glycerine carbonate; (4-Hydroxymethyl]-1,3-dioxolan-2-one)	931-40-8	10	30	50	250	PNOS default used.
1413	Glyceryl monostearate; (Octadecanoic acid, monoester with 1,2,3-propanetriol)	31566-31-1	10	30	50	75	
1414	Glycidaldehyde	765-34-4	0.06	0.2	1.5	75	
1415	Glycidol; (Oxiranemethanol)	556-52-5	6	12.5	75	400	TLV-TWA, rat TClo, rat LC50.
1416	Glycidoxypropyltrimethoxysilane; (3-(2,3-Epoxypropoxy) propyltrimetyh-oxysilane)	2530-83-8	150	400	500	500	Rat TClo, rat LC lo.
1417	Glycidyl acrylate; (2,3-Epoxypropyl acrylate)	106-90-1	0.6	2	12.5	60	Rat 240 min LC lo.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1418	Glycine; (Aminoacetic acid)	56-40-6	25	75	500	500	
1419	Glycol carbonate; (Ethylene carbonate)	96-49-1	40	125	500	500	
1420	Glycolic acid	79-14-1	0.75	0.75	0.75	0.75	
1421	Glycols, polyethylene, dimethyl ether	24991-55-7	75	200	500	500	Rat oral TDlo, rat oral LD lo.
1422	Glycols, polyethylene, mono(p-nonylphenyl) ether; (Nonoxynol-9)	26027-38-3	0.025	0.075	0.6	60	
1423	Glycoluril; (Acetyleneurea)	496-46-8	10	30	50	250	
1424	Glyoxal	107-22-2	0.1	35	75	75	
1425	Goethite; (Iron hydroxide oxide)	1310-14-1	5	7.5	12.5	250	**SAR**
1426	Gold	7440-57-5	7.5	25	100	100	
1427	Graphite; (Mineral carbon)	7782-42-5	2	6	10	500	
1428	Grease; (Animal grease, inedible)	68153-81-1	10	30	50	250	
1429	Guanidine, N-methyl-N'-nitro-N-nitroso-	70-25-7	0.125	0.35	2.5	40	
1430	Guanidinehydrochloride	50-01-1	2	6	40	200	Rat oral LD50.
1431	Hafnium	7440-58-6	0.5	1.5	2.5	50	
1432	Hafnium oxide	12055-23-1	0.59	1.77	3	59	

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Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1433	Halon 1211; (Bromochlorodifluoromethane)	353-59-3	75	250	1,500	35,000	
1434	Hansa yellow	13515-40-7	10	30	50	250	
1435	Helium	7440-59-7	10,000	10,000	35,000	60,000	Simple asphyxiant
1436	Hematoxylin	517-28-2	10	30	50	50	
1437	Heptachlor	76-44-8	0.5	0.5	0.5	35	
1438	Heptachlor epoxide; (Epoxyheptachlor)	1024-57-3	0.05	0.15	6	6	TLV-TWA, TEEL-0*3, TEEL-0*5, rat oral LD50.
1439	Heptachlorodibenzofuran, 1,2,3,4,6,7,8-; (HeptaCDF, 1,2,3,4,6,7,8-)	67562-39-4	0.06	0.15	1.25	6	
1440	Heptachlorodibenzofuran, 1,2,3,4,7,8,9- ; (HeptaCDF, 1,2,3,4,7,8,9-)	55673-89-7	0.075	0.25	1.5	7.5	
1441	Heptachlorodibenzo-p-dioxin, 1,2,3,4,6,7,8-; (HeptaCDD, 1,2,3,4,6,7,8-)	35822-46-9	0.15	0.5	2.5	2.5	
1442	Heptadecane	629-78-7	150	500	3,500	15,000	
1443	Heptafluorobutyric acid	375-22-4	0.6	2	12.5	60	Mouse ip LD50.
1444	Heptafluorotetrahydro-5-(nonafluorobutyl)furan, 2,2,3,3,4,4,5-; (Perfluoro-2-butyltetrahydrofuran; Fluorinert FC-75)	335-36-4	3.42	10.3	17.1	75	
1445	Heptane	142-82-5	1,500	1,500	1,500	3,000	
1446	Heptanoic acid	111-14-8	30	75	600	3,000	Rat oral LD50.
1447	Heptanol, 1-; (Heptyl alcohol)	111-70-6	3.5	10	500	500	

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1448	Heptene, 1-	592-76-7	7,500	20,000	150,000	750,000	Mouse TClo
1449	Hexacarbonylchromium; (Chromium hexacarbonyl)	13007-92-6	0.05	1.25	1.25	1.25	
1450	Hexachloroacetone	116-16-5	0.4	1.25	7.5	200	Rat oral TDlo, rat 180 min LC50.
1451	Hexachlorobenzene	118-74-1	0.002	0.006	2	200	
1452	**Hexachlorobutadiene**	**87-68-3**	0.2	**10.7**	**32.1**	**106.9**	TLV-TWA, **ERPG-1, ERPG-2, ERPG-3.**
1453	Hexachlorocyclohexane, alpha-; (Benzene hexachloride-alpha-isomer)	319-84-6	0.5	1.5	2.5	500	MAK-TWA, TEEL-0*3, TEEL-0*5, human oral LD lo.
1454	Hexachlorocyclohexane, beta-1,2,3,4,5,6-; (Benzene hexachloride, trans-alpha-)	319-85-7	0.5	1.5	2.5	500	MAK-TWA, TEEL-0*3, rat oral TDlo, rat oral LD50.
1455	Hexachlorocylopentadiene	77-47-4	0.1	0.2	0.2	0.2	
1456	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	
1457	Hexachlorodibenzofuran, 1,2,3,4,7,8-	70648-26-9	0.0025	0.0075	0.06	0.3	
1458	Hexachlorodibenzofuran, 1,2,3,6,7,8-	57117-44-9	0.0008	0.0025	0.015	0.075	
1459	Hexachlorodibenzofuran, 1,2,3,7,8,9-; (HexaCDF, 1,2,3,7,8,9-)	72918-21-9	0.04	0.125	0.75	4	
1460	Hexachlorodibenzofuran, 2,3,4,6,7,8-	60851-34-5	0.0005	0.0015	0.01	0.05	
1461	Hexachlorodibenzo-p-dioxin, 1,2,3,6,7,8-	57653-85-7	0.005	0.015	0.1	0.5	
1462	Hexachlorodibenzo-p-dioxin, 1,2,3,7,8,9-; (HexaCDD, 1,2,3,7,8,9-)	19408-74-3	0.005	0.015	0.1	0.5	

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1463	Hexachloroethane	67-72-1	10	30	50	3,000	
1464	Hexachloronaphthalene	1335-87-1	0.2	0.2	0.2	2	
1465	Hexachlorophene	70-30-4	10	10	20	200	Infant oral TDlo, child oral LD lo.
1466	Hexachloropropene	1888-71-7	1.5	4	30	150	
1467	Hexadecanamine, 1-	143-27-1	0.125	0.35	2.5	75	Mouse oral TDlo preg, mouse ip LD50.
1468	Hexadecane	544-76-3	3	7.5	60	500	Guinea pig skin TDlo, mouse intravenous LD lo.
1469	Hexadecanoic acid; (Palmitic acid)	57-10-3	25	50	50	50	
1470	Hexadecanol, 1-	36653-82-4	2.5	7.5	60	300	
1471	Hexadecene, 1-	629-73-2	4	12.5	75	400	Rat 60 min LC lo minimum.
1472	Hexadecylpyridinium chloride, 1-; (Cepacol chloride)	123-03-5	0.075	0.25	2	10	Rat 240 min LC50.
1473	Hexadecyltrimethylammonium chloride	112-02-7	2.5	7.5	50	250	Mouse oral LD lo.
1474	Hexafluoro-2-propanol, 1,1,1,3,3,3-	920-66-1	50	150	1,000	6,000	Rat 240 min LC50
1475	**Hexafluoroacetone**	**684-16-2**	0.6	0.6	**1.36**	**543**	TLV-TWA, TLV-TWA, **AEGL-2, AEGL-3.**
1476	Hexafluorobenzene	392-56-3	1,250	3,500	12,500	12,500	Dog TClo, rat 30 min LC50.
1477	Hexafluorobutyne-2; (1,1,1,4,4,4-Hexafluoro-2-butyne)	692-50-2	2	6	40	200	Rat 240 min LC50.

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Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1478	Hexafluoroethane; (Freon 116; Perfluoroethane)	76-16-4	250,000	250,000	250,000	250,000	Rat TClo
1479	**Hexafluoropropylene; (Hexafluoropropene)**	**116-15-4**	0.6	**245**	**558**	**2,940**	TLV-TWA, **AEGL-1, AEGL-2, AEGL-3.**
1480	Hexafluoropropylene-vinylidene fluoride polymer; (Viton)	9011-17-0	10	30	50	250	PNOS default.
1481	Hexamethylcyclotrisiloxane	541-05-9	10	30	200	500	Estimated rat oral LD50.
1482	Hexamethyldisilazane	999-97-3	12.5	40	250	350	
1483	Hexamethyldisiloxane	107-46-0	250	750	2,000	2,000	
1484	Hexamethylene diisocyanate polymer	28182-81-2	7.5	25	200	500	Rat 60-min LC50
1485	Hexamethylene diisocyanate; (1,6-Diisocyanatohexane)	822-06-0	0.035	0.1	1.25	20	
1486	Hexamethyleneimine	111-49-9	15	40	300	500	Mouse 120 min LC50.
1487	Hexamethylenetetraamine hydrochloride	58713-21-6	10	30	50	250	
1488	Hexamethylenetetraamine; (Methenamine)	100-97-0	10	30	500	500	
1489	Hexamethylphosphoramide	680-31-9	0.3	0.75	6	1,000	
1490	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.
1491	Hexanal	66-25-1	50	150	750	750	
1492	**Hexane**	**110-54-3**	150	1,500	**11,600**	**30,300**	TLV-TWA, AEGL-2/7, **AEGL-2, AEGL-3.**

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1493	Hexanediol diacrylate, 1,6-	13048-33-4	1	3.5	25	500	WEEL-TWA, rabbit dermal TDlo, rat oral LD50.
1494	Hexanediol, 1,6-; (Hexamethylene glycol)	629-11-8	50	150	500	500	Rat ip TDlo, rat oral LD50.
1495	Hexanehexol, 1,2,3,4,5,6-; (Mannitol)	69-65-8	500	500	500	500	
1496	Hexanenitrile	628-73-9	2	6	40	200	
1497	Hexanethiol, 1-; (N-Hexylmercaptan)	111-31-9	0.125	0.35	2.5	500	REL-C, rat 240 min LC50.
1498	Hexanitrostilbene	20062-22-0	0.25	0.75	6	30	Rat oral TDlo for 4-Nitrostilbene.
1499	Hexanoic acid	142-62-1	5	15	100	500	
1500	Hexanol, 2-; (2-Hydroxyhexane)	626-93-7	5	15	100	500	Human TClo.
1501	Hexanol, n-; (n-Hexyl alcohol)	111-27-3	3	7.5	60	300	
1502	Hexanone, 2-; (Methyl n-butyl ketone)	591-78-6	20	40	6,000	6,000	
1503	Hexanone, 3-; (Ethyl propyl ketone)	589-38-8	15	50	350	1,500	
1504	Hexanoyl chloride	142-61-0	1.5	5	35	150	Rat oral LD50 from estimated HHR = 3.
1505	Hexaphenylcyclotrisiloxane	512-63-0	7.5	25	150	500	Estimated rat oral LD50 based on HHR.
1506	**Hexene, 1-**	**592-41-6**	150	250	**1,720**	**17,200**	TLV-TWA,PAC-2/7, **ERPG-2, ERPG-3.**
1507	Hexylene glycol	107-41-5	50	50	125	1,500	

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1508	**Hexyltrichlorosilane**	**928-65-4**	1.5	**5.39**	**65.5**	**296**	AEGL-1/3, **AEGL-1, AEGL-2, AEGL-3.**
1509	Holmium	7440-60-0	7.5	25	150	500	Rat oral LD50 based on HHR = 2.
1510	Holmium trioxide	12055-62-8	10	30	50	250	
1511	Humic acid, sodium salt	68131-04-4	2	6	40	200	Rat ip TDlo preg., rat ip LD50.
1512	**Hydrazine**	**302-01-2**	0.131	**0.131**	**17**	**45.9**	AEGL-1, **AEGL-1, AEGL-2, AEGL-3.**
1513	Hydrazine hydrate, aequeous solutions	10217-52-4	0.03	0.0625	0.0625	0.0625	
1514	Hydrazine hydrate; (Hydrazine monohydrate)	7803-57-8	0.003	0.0075	0.0625	50	
1515	Hydrazine hydrochloride; (Hydrazine monochloride)	2644-70-4	0.0075	0.025	0.04	50	
1516	Hydrazine nitrate; (Hydrazinium nitrate)	13464-97-6	1	3	5	25	
1517	Hydrazine sulfate	10034-93-2	0.6	2	15	250	
1518	Hydrazine, dihydrochloride	5341-61-7	25	75	500	500	Rat oral TDlo.
1519	**Hydriodic acid; (Hydrogen iodide)**	**10034-85-2**	1.5	**5.23**	**115**	**627**	AEGL-1/3, **AEGL-1, AEGL-2, AEGL-3.**
1520	**Hydrobromic acid; (Hydrogen bromide)**	**10035-10-6**	3.31	**3.31**	**72.8**	**397**	AEGL-1, **AEGL-1, AEGL-2, AEGL-3.**
1521	Hydrogen	1333-74-0	5,000	5,000	15,000	30,000	Simple asphyxiant
1522	**Hydrogen chloride; (Hydrochloric acid)**	**7647-01-0**	0.75	**2.68**	**32.8**	**149**	CEGL, **AEGL-1, AEGL-2, AEGL-3**

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1523	**Hydrogen cyanide; (Hydrocyanic acid)**	**74-90-8**	2	**2.21**	**7.84**	**16.6**	MAK-TWA, **AEGL-1, AEGL-2, AEGL-3**
1524	**Hydrogen fluoride; (Hydrofluoric acid)**	**7664-39-3**	0.818	**0.818**	**19.6**	**36**	AEGL-1, **AEGL-1, AEGL-2, AEGL-3**
1525	**Hydrogen peroxide**	**7722-84-1**	1.25	**14**	**71**	**142**	PEL-TWA, **ERPG-1, ERPG-2, ERPG-3.**
1526	Hydrogen peroxide - 30%	7722-84-1a	12.5	40	200	400	Concentration-adjusted ERPGs
1527	Hydrogen potassium phthalate; (Phthalic acid, monopotassium salt; Potassium acid phthalate; Potassium biphthalate)	877-24-7	12.5	40	250	500	Rat oral LD50 minimum.
1528	**Hydrogen selenide**	**7783-07-5**	0.15	0.35	**2.42**	**7.28**	PEL-TWA, AEGL-2/7, **AEGL-2, AEGL-3.**
1529	**Hydrogen sulfide**	**7783-06-4**	0.71	**0.71**	**37.6**	**69.6**	AEGL-1, **AEGL-1, AEGL-2, AEGL-3.**
1530	Hydrogenated terphenyl	61788-32-7	0.5	1.5	2.5	500	TLV-TWA, RAT oral LD50.
1531	Hydroquinone	123-31-9	2	3	20	50	PEL-TWA, TLV-TWA*3, LOC, IDLH.
1532	Hydrotreated (mild & severe) heavy paraffinic distillates	64742-54-7	60	150	500	500	
1533	Hydrotreated middle distillate (Petroleum base oil)	64742-46-7	3	7.5	60	300	
1534	Hydroxy-2-methylpropanoic acid, 2-; (2-Methyllactic acid)	594-61-6	10	30	50	250	
1535	Hydroxy-4'-hydroxyethoxy-2-methylpropiophenone, 2-	106797-53-9	15	50	350	500	Rat oral LD50
1536	Hydroxy-4-methyl-2-pentanone, 4-; (Diacetone alcohol)	123-42-2	200	200	200	7,500	

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1537	Hydroxyapatite; (Calcium hydroxyapatite)	1306-06-5	12.5	35	60	500	**SAR**
1538	Hydroxybenezenesulfonic acid, 4-; (4-Hydroxyphenylsulfonic acid)	98-67-9	25	75	500	500	Mouse oral LD50
1539	Hydroxybenzoic acid, 4-; (p-Salicylic acvid)	99-96-7	20	60	400	500	Rat oral TDlo, mouse oral LD50.
1540	Hydroxybenzotriazole, 1-; (1-Hydroxybenzotriazole hydrate)	2592-95-2	40	125	500	500	Rat oral LD lo.
1541	Hydroxyethyl acrylate, 2-; (Acrylic acid, 2-hydroxyethyl ester)	818-61-1	1.5	5	35	250	Rat TClo, rat 240 min LC lo.
1542	Hydroxyethyl methacrylate, 2-	868-77-9	0.1	0.3	2	500	Rat oral TDlo, rat oral LD50.
1543	Hydroxyethyl)-1-piperazineethanesulfonic acid, 4-(2-	7365-45-9	1.25	4	25	125	Quail LD50 maximum.
1544	Hydroxyethylenediaminetriacetic acid, N-	150-39-0	1.25	4	30	150	
1545	Hydroxyethylidene-1,1-diphosphonic acid, 1-; (Hydroxyethylidine bisphosphonic acid, 1-)	2809-21-4	10	30	50	500	
1546	Hydroxylamine	7803-49-8	0.25	0.75	5	25	
1547	Hydroxylamine chloride; (Hydroxylamine hydrochloride)	5470-11-1	10	35	60	60	
1548	Hydroxylamine nitrate	13465-08-2	7.62	15.2	26	150	PEL-TWA, TLV-STEL and IDLH as HNO3, LOC.
1549	Hydroxylamine sulfate; (Oxammonium sulfate)	10039-54-0	4	10	75	400	
1550	Hydroxymethanesulfinic acid, monosodium salt; (Formaldehyde hydrosulfite)	149-44-0	15	50	350	500	Mouse oral LD50.
1551	Hydroxy-N-phenylbenzamide, N-; (Phenylbenzohydroxamic acid, N-)	304-88-1	10	30	50	250	PNOS default.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1552	Hydroxyphenyl)benzothiazole, 2(2-	3411-95-8	35	100	500	500	Mouse ip LD lo minimum.
1553	Hydroxyphenylacetic acid, alpha-	90-64-2	15	50	350	500	Rat ip LD50.
1554	Hydroxypropyl cellulose	9004-64-2	40	125	500	500	Rat oral LD50.
1555	Hydroxyquinoline sulfate, 8-	134-31-6	5	15	100	500	Rat oral LD50.
1556	Hypophosphorous acid-d3; (Hydrophosphorus acid-d3 solution, 50 wt.% in D2O)	57583-56-9	2	6	50	750	Rat oral TDlo, rat oral LD50 for non-deuterated compound.
1557	Hypophosphorus acid; (Phosphinic acid)	6303-21-5	10	30	50	250	
1558	Imidazole	288-32-4	4	12.5	75	100	
1559	Imidazole hydrochloride	1467-16-9	7.5	25	150	500	Rat oral LD50 based on HHR.
1560	Imidazole, substituted; (1,3,5-Triazine-2,4-diamine, 6-[2-(2-metyhyl-1H-imidazol-1-yl)ethyl]; Curezol 2MEA-PW)	38668-46-1	10	30	50	250	PNOS default used.
1561	Iminodiacetic acid	142-73-4	1	3	20	100	
1562	Iminodiacetic acid, disodium salt hydrate	17593-73-6	35	100	500	500	MSDS rat oral LD50.
1563	Indan	496-11-7	40	125	500	500	
1564	Indene	95-13-6	20	40	300	1,500	TLV-TWA, TEEL-0, PAC-3/5, rat 240 min LC50.
1565	Indeno(1,2,3-cd)pyrene	193-39-5	0.15	0.5	3.5	15	
1566	Indigo carmine; (FD&C blue No 2)	860-22-0	20	60	75	75	

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1567	Indium	7440-74-6	0.1	0.1	0.6	3.5	Indium concentration limits, mouse sc LD lo.
1568	Indium oxide (vapor)	1312-43-2b	0.107	0.321	0.535	2.5	Indium concentration limits.
1569	Indium sulfate	13464-82-9	0.225	0.676	1.13	4	In compound concentration limits, rat sc LD50.
1570	Indium trichloride	10025-82-8	0.193	0.578	1	1	Indium concentration limits, T-2 toxicity adjusted, rat ip LD50.
1571	Indium(III) oxide	1312-43-2a	0.121	0.363	100	500	Indium concentration limits, rat TClo, mouse oral LD lo.
1572	Indole-3-carboxaldehyde, 1H-; (3-Formylindole)	487-89-8	5	15	100	500	
1573	Iodic acid	7782-68-5	0.0139	0.02	0.139	2.77	
1574	Iodide, Ammonium, tetraethyl-; (Tetraethylammoniumiodide)	68-05-3	0.0203	0.0608	0.101	15	Mouse ip LD50.
1575	**Iodine**	**7553-56-2**	0.1	**1**	**5.2**	**52**	MAK-TWA, **ERPG-1, ERPG-2, ERPG-3.**
1576	Iodine 125	17144-19-3	0.1	1	5	50	Iodine (7753-56-2) PACs.
1577	Iodobenzene	591-50-4	0.0161	0.0482	500	500	Rat TDlo, rat LC50.
1578	Iodoethane; (Ethyl iodide)	75-03-6	0.075	0.2	0.4	3,500	Rat 30 min LC50
1579	Iodoheptafluoropropane, 1-; (Heptafluoropropyl iodide)	754-34-7	0.25	0.75	1.25	150,000	Mouse 120 min LC50
1580	Iodopentane, 1-	628-17-1	0.0156	0.0468	0.078	400	Rat ip LD50.
1581	Iotalamic acid	2276-90-6	0.0161	0.0484	1.25	500	Human TDlo, rat ip LD50.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1582	Iridium	7439-88-5	6	20	125	500	Rat oral LD50.
1583	Iron	7439-89-6	1.5	4	30	500	Rat oral LD50.
1584	Iron carbide	12011-67-5	5.36	16.1	26.8	125	Iron concentration limits.
1585	Iron hydroxide oxide	20344-49-4	15.9	47.7	79.6	400	Iron concentration limits.
1586	Iron oxide; (Ferric oxide)	1309-37-1	5	15	40	500	Concentration limits.
1587	**Iron pentacarbonyl**	**13463-40-6**	0.48	0.48	**0.48**	**1.44**	AEGL-2, AEGL-2, **AEGL-2, AEGL-3.**
1588	Iron(II) chloride tetrahydrate	13478-10-9	3.56	3.56	7.5	40	Mouuse ip LD50.
1589	Iron(II) perchlorate hexahydrate	13520-69-9	6.33	19	31.6	150	Used TLV-TWA for soluble iron salts
1590	Iron(II,III) oxide; (Ferrosoferric oxide; Iron(III) oxide)	1317-61-9	20.7	31.1	51.8	250	Iron oxide concentration limits.
1591	Iron(III) perchlorate	13537-24-1	6.34	19	31.7	150	Fe soluble salts TLV-TWA.
1592	Iron(III) sulfate heptahydrate	35139-28-7	4.98	14.9	25	500	Insol. Fe salts, concentration limits, mouse oral LD50.
1593	Isoamyl acetate; (Isopentyl acetate)	123-92-2	500	500	1,000	5,000	
1594	Isoamyl alcohol (primary); (3-Methyl-1-butanol)	123-51-3	350	400	400	1,500	PEL-TWA, TLV-STEL, human TClo, IDLH.
1595	Isoamyl alcohol (secondary); (3-Pentanol)	584-02-1	350	400	400	1,500	PEL-TWA, TLV-STEL, IDLH.
1596	Isoamyl nitrite; (Isopentyl nitrite)	110-46-3	12.5	40	300	1,500	

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1597	Isobenzan	297-78-9	0.5	1.5	2	2	
1598	Isobutanol-2-amine	124-68-5	0.03	0.075	0.6	500	
1599	Isobutyl acetate	110-19-0	600	600	1,250	6,000	
1600	Isobutyl alcohol	78-83-1	300	3,500	5,000	5,000	
1601	Isobutyl chloride; (1-Chloro-2-methylpropane)	513-36-0	1.5	4	30	150	Estimated rat 240 min LC50 based on HR.
1602	**Isobutyl Chloroformate; (Chloroformic acid butyl ester)**	**543-27-1**	1	3.5	**12.3**	**37.4**	MAK-TWA, TEEL-0*3, **AEGL-2, AEGL-3.**
1603	Isobutyl isobutyrate	97-85-8	150	500	500	500	
1604	Isobutylamine	78-81-9	15	15	20	100	
1605	Isobutyraldehyde	78-84-2	75	750	5,000	5,000	WEEL-TWA, pregnant rat TClo, mouse 120 min LC50.
1606	Isobutyric acid	79-31-2	1	3.5	25	125	
1607	Isobutyric anhydride; (2-Methylpropionic anhydride)	97-72-3	0.6	2	12.5	60	Rat LC50 based on HHR.
1608	**Isobutyronitrile**	**78-82-0**	20	**28.3**	**50.9**	**192**	REL-TWA, **ERPG-1**, **AEGL-2, AEGL-3.**
1609	Isocyanate-bearing waste (as CNs N.O.S.)	z-0024	5	5	5	25	
1610	**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.**
1611	Isocyanic acid	75-13-8	0.06	0.2	1.25	6	Human LC50 based on estimated HHR = 3+

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Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1612	Isocyanic acid, 3,4-dichlorophenyl ester; (3,4-Dichlorophenyl isocyanate)	102-36-3	2.5	7.5	14	500	
1613	Isodrin	465-73-6	1.25	4	7	7	
1614	Isonate 181 MDI prepolymer	z-0113	7.5	25	100	225	Calculated from mixture ingredients
1615	Isooctane; (2,2,4-Trimethylpentane)	540-84-1	1,250	1,500	1,500	4,000	Octane TLV-TWA, REL-C, IDLH.
1616	Isopentane; (Ethyldimethylmethane; 2-Methylbutane)	78-78-4	1,500	1,500	1,500	60,000	
1617	Isophorone	78-59-1	25	25	25	1,000	
1618	Isophorone diisocyanate	4098-71-9	0.04	0.15	1.25	50	
1619	Isophthalic acid	121-91-5	10	30	50	500	WEEL-TWA, rat oral LD50
1620	**Isoprene**	**78-79-5**	5	**13.9**	**2,780**	**11,100**	WEEL-TWA, **ERPG-1, ERPG-2, ERPG-3.**
1621	Isopropyl acetate	108-21-4	750	750	750	7,500	TLV-STEL, TLV-STEL, PAC-1, IDLH.
1622	Isopropyl alcohol	67-63-0	1,000	1,000	1,000	5,000	PEL-TWA, TLV-STEL, EEGL, IDLH.
1623	Isopropyl chloride; (2-Chloropropane)	75-29-6	150	500	50,000	50,000	WEEL-TWA, rat TClo, rat LC50.
1624	**Isopropyl chloroformate; (Isopropyl chlorocarbonate)**	**108-23-6**	0.75	2	**16.5**	**50.1**	AEGL-2/21, AEGL-2/7, **AEGL-2, AEGL-3.**
1625	Isopropyl ether; (Diisopropyl ether)	108-20-3	1,250	1,250	1,250	6,000	Concentration limits, human TClo.
1626	**Isopropyl methanefluoro-phosphonate; (Sarin; GB)**	**107-44-8**	0.0008	**0.0028**	**0.0344**	**0.126**	AEGL-1/3, **AEGL-1, AEGL-2, AEGL-3**

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Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1627	Isopropyl nitrate	1712-64-7	6	20	600	3,000	Russian STEL, rat 240 min LC50
1628	Isopropyl titanate(IV); (Titanium(IV) isopropoxide)	546-68-9	30	75	500	500	
1629	Isopropylamine; (2-Propanamine)	75-31-0	12.5	25	300	1,500	
1630	Isopropylmagnesium chloride; (Chloro(1-methylethyl)magnesium)	1068-55-9	1	3	20	100	
1631	Isopropylmethylpyrazolyl dimethylcarbamate; (Isolan)	119-38-0	1	3.5	5.6	5.6	
1632	Isopropyltoluene, 4-; (p-Cymene)	99-87-6	75	250	500	500	Human TDlo, rat oral LD50.
1633	Jeffamine M-600	77110-54-4	10	30	50	250	Used PNOS default.
1634	**Jet fuels (JP-5 and JP-8)**	**70892-10-3**	200	**290**	**1100**	1,100	TLV-TWA, **AEGL-1, AEGL-2,** AEGL-2.
1635	Kaolin; (Aluminum silicate hydroxide)	1332-58-7	5	6	125	500	
1636	Kepone; (Chlordecone)	143-50-0	0.001	0.003	0.6	40	
1637	**Kerosene**	**8008-20-6**	200	**290**	**1100**	1,100	REL-TWA, **AEGL-1, AEGL-2**, AEGL-2
1638	**Ketene; (Carbomethene, Ethenone)**	**463-51-4**	0.326	**0.326**	**1.13**	**3.44**	PEL-TWA, **AEGL-1, AEGL-2, AEGL-3.**
1639	Krypton	7439-90-9	200,000	200,000	750,000	1,250,000	Simple asphyxiant (see Introduction)
1640	Lactic acid	50-21-5	15	40	300	500	
1641	Lactic acid, sodium salt, DL-; (Propanoic acid, 2-hydroxy-, monosodium salt)	312-85-6	10	30	50	250	PNOS default used.

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Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1642	Lactonitrile	78-97-7	3.5	10	18	150	
1643	Lactose, beta-D; (beta-D-Glucopyranose, 4-O-beta-D-galactopyranosyl-)	5965-66-2	10	30	50	250	Used PNOS default.
1644	Lanthanum	7439-91-0	10	30	50	250	
1645	Lanthanum alizarin	z-0026	10	30	50	250	
1646	Lanthanum boride	12008-21-8	14.7	44	75	350	Used PNOS default as La
1647	Lanthanum carbonate	6487-39-4	10	30	50	250	
1648	Lanthanum chloride	10099-58-8	6	20	150	500	Rat 120 min TClo, rat oral LD50.
1649	Lanthanum fluoride	13709-38-1	8.59	8.59	50	250	
1650	Lanthanum hydroxide	14507-19-8	0.2	0.75	2	2.5	**SAR**
1651	Lanthanum nitrate	10099-59-9	0.4	1.25	7.5	500	
1652	Lanthanum oxide	1312-81-8	40	125	500	500	
1653	Lanthanum phosphate	14913-14-5	0.3	0.75	3	3	**SAR**
1654	Lanthanum(III) nitrate hexahydrate	10277-43-7	1.5	5	35	150	
1655	Laromin C 260; (bis(4-Amino-3-methylcyclohexyl) methane; Dimethyldicyane)	6864-37-5	1.5	5	35	150	Rat 240 min LC50.
1656	Lauryl sulfate; (Dodecyl sulfate)	151-41-7	5	15	100	500	Rat oral LD50.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1657	Lead	7439-92-1	0.05	0.15	0.25	100	
1658	Lead acetate(II), trihydrate; (Bis(acetato)trihydroxytrilead)	6080-56-4	0.0915	0.275	100	183	
1659	Lead acetate, basic; (Lead subacetate)	1335-32-6	0.065	0.195	130	130	
1660	Lead acetate; (Lead diacetate)	301-04-2	0.0785	0.235	75	157	
1661	Lead acid arsenate; (Dibasic lead arsenate)	7784-40-9	0.0838	0.251	168	168	
1662	Lead arsenate	3687-31-8	0.012	0.012	0.012	30	
1663	Lead bromide	10031-22-8	0.0886	0.266	0.443	177	PEL-TWA, IDLH.
1664	Lead carbonate	598-63-0	0.0645	0.193	4	500	
1665	Lead chloride	7758-95-4	0.0671	0.201	7.5	134	
1666	Lead chromate	7758-97-6	0.0311	0.186	1	93.2	Cr VI concentration limits.
1667	Lead dioxide	1309-60-0	0.0577	0.1731	20	115	
1668	Lead fluoborate	13814-96-5	0.0919	0.276	0.459	184	
1669	Lead fluoride	7783-46-2	0.0592	0.178	15	118	
1670	Lead hydroxide	19783-14-3	0.0582	0.175	0.3	1.5	
1671	Lead iodide	10101-63-0	0.111	0.334	0.556	222	

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Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1672	Lead nitrate	10099-74-8	0.0799	0.6	4	160	
1673	Lead nitrite	13826-65-8	0.0722	0.217	0.361	1.5	
1674	Lead oxalate	814-93-7	0.0712	0.214	0.356	1.5	
1675	Lead oxide; (Lead monoxide)	1317-36-8	0.0539	0.0539	0.0539	108	
1676	Lead phosphate	7446-27-7	0.0653	0.196	30	150	
1677	Lead sulfate; (Sulfuric acid, lead(2+) salt (1:1))	7446-14-2	0.0732	0.2196	30	146	Inorganic Pb concentration limits, as Pb.
1678	Lead sulfide	1314-87-0	0.0577	0.173	350	500	
1679	Lead tetroxide	1314-41-6	0.0551	0.165	0.276	110	
1680	Lead(II) arsenite	10031-13-7	0.0281	0.0843	0.14	14	
1681	Lead(II) perchlorate hydrate	13453-62-8	0.111	0.333	0.555	100	Lead inorganic concentration limits,
1682	Leco set 7007 powder	z-0027	10	30	50	250	
1683	Leptophos	21609-90-5	6	15	30	30	
1684	**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.**
1685	**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.**
1686	Lignosulfonate (aqueous)	8062-15-5	10	30	500	500	

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1687	Limonene, d-	5989-27-5	150	500	750	2,000	WEEL-TWA, rat oral TDlo, rat oral LD50.
1688	Lindane; (gamma-Benzenehexachloride)	58-89-9	0.5	1.5	50	50	
1689	Linseed oil	8001-26-1	0.5	1.5	10	60	
1690	Liquified petroleum gas; (L.P.G.)	68476-85-7	1,500	3,500	3,500	3,500	
1691	Lithium	7439-93-2	10	30	50	400	
1692	Lithium acetate dihydrate	6108-17-4	12.5	35	250	500	
1693	Lithium aluminate	12003-67-7	12.2	36.6	61.1	300	Aluminum pyro powders, as Al, TLV-TWA.
1694	Lithium aluminum oxide; (Lithium aluminate)	11089-89-7	10	30	50	250	
1695	Lithium aluminum silicate; (Petalite)	1302-66-5	2	6	10	50	
1696	Lithium azide	19597-69-4	10	10	10	10	
1697	Lithium borohydride; (Lithium tetrahydroborate)	16949-15-8	4.03	12.1	20.2	35	Borate TLV-TWA, -STEL, mammal LC50.
1698	Lithium bromide	7550-35-8	1	7	15	500	
1699	Lithium carbonate	554-13-2	0.2	0.6	4	200	Human oral TDlo, rat oral LD50
1700	Lithium chloride	7447-41-8	0.5	1.5	10	60	
1701	Lithium chromate; (Lithium chromate dihydrate)	14307-35-8	0.016	0.479	0.798	47.9	Cr VI concentration limits.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1702	Lithium deuteride	13587-16-1	0.0282	0.0282	0.1	0.5	Used Li.H (7580-67-8) PACs.
1703	Lithium diisopropylamide; (LDA)	4111-54-0	10	30	50	250	PNOS default used.
1704	Lithium fluoride	7789-24-4	3.41	10.2	17.1	341	
1705	**Lithium hydride**	**7580-67-8**	0.025	**0.025**	**0.100**	**0.500**	PEL-TWA, **ERPG-1, ERPG-2, ERPG-3.**
1706	Lithium hydroxide	1310-65-2	0.05	0.15	1	100	WEEL-C, rat 240-min LC50
1707	Lithium hydroxide monohydrate	1310-66-3	0.05	0.15	1	100	
1708	Lithium iodide	10377-51-2	10	30	50	250	PNOS default.
1709	Lithium metaborate, anhydrous	13453-69-5	2	6	10	50	Inorganic borate compounds TLV-TWA and TLV-STEL
1710	Lithium molybdate	13568-40-6	9.06	27.2	45.3	200	
1711	Lithium niobium oxide; (Lithium niobate)	12031-63-9	5	15	25	500	
1712	Lithium nitrate	7790-69-4	10	30	50	250	
1713	Lithium nitride	26134-62-3	10	10	10	10	
1714	Lithium nitrite	13568-33-7	0.025	0.06	0.4	40	**SAR**
1715	Lithium perchlorate, anhydrous	7791-03-9	0.0005	0.0015	0.01	0.06	IRIS LOEL.
1716	Lithium stearate	4485-12-5	60	150	500	500	

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1717	Lithium sulfate	10377-48-7	0.15	0.5	3.5	500	
1718	Lithium tetraborate	12007-60-2	10	30	50	250	PNOS default.
1719	Lithium tetraborate pentahydrate	1303-94-2	1	3	5	25	NIOSH REL-TWA
1720	Lithium tetrahydroaluminate(1-); (Lithium aluminum hydride)	16853-85-3	2.81	2.81	7.5	35	Al sol. Salt concentration limits, mouse oral LD50.
1721	Lithium triethylborodeuteride; (Super-deuteride)	74540-86-6	10	30	50	250	PNOS default used.
1722	Lithium triethylborohydride; (Super-hydride)	22560-16-3	1.5	5	35	150	Rat oral LD50 based on HHR.
1723	Lubricating oil, rerefined	68476-77-7	10	30	50	250	PNOS default used.
1724	Lutetium	7439-94-3	1.5	5	35	150	Rat oral LD50 based on HHR = 3.
1725	Lutetium oxide	12032-20-1	10	30	50	250	
1726	Lutidine, 2,6-; (2,6-Dimethylpyridine)	108-48-5	350	1,000	6,000	35,000	Rat 60 min LC lo.
1727	Magnesium	7439-95-4	1.25	4	30	150	PAC-2/21, PAC-2/7, rat TClo, PAC-2*5.
1728	Magnesium acetate tetrahydrate	16674-78-5	0.75	2.5	20	100	
1729	**Magnesium aluminum phosphide**	**z-0116**	5.01	5.01	**5.01**	**8.97**	AEGL-2, AEGL-2, **AEGL-2, AEGL-3.**
1730	Magnesium carbonate hydroxide	7760-50-1	10	30	50	250	PNOS default.
1731	Magnesium carbonate; (Magnesite)	546-93-0	15	45	200	500	PEL-TWA, TEEL-0*3, rat 240 min TClo, rat oral LD50.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1732	Magnesium carbonate-magnesium hydroxide, pentahydrate	39409-82-0	48.8	97.7	163	500	Magnesite PEL-TWA.
1733	Magnesium chloride	7786-30-3	10	30	50	500	
1734	Magnesium chloride hexahydrate	7791-18-6	75	250	500	500	
1735	Magnesium ethoxide	2414-98-4	47.1	141	235	500	Used Mg.O TLV-TWA
1736	Magnesium fluoride	7783-40-6	4.1	12.3	20.5	410	
1737	Magnesium formate	557-39-1	10	30	50	250	Used PNOS default.
1738	Magnesium hydroxide	1309-42-8	75	200	500	500	
1739	Magnesium iodate tetrahydrate	7790-32-1	10	30	50	250	PNOS default.
1740	Magnesium nitrate hexahydrate	13446-18-9	20	60	500	500	
1741	Magnesium nitrate; (Magnesium(II) nitrate (1:2))	10377-60-3	10	30	50	250	
1742	Magnesium oxide	1309-48-4	10	30	150	500	
1743	**Magnesium phosphide**	**12057-74-8**	1	3	**5.51**	**9.92**	AEGL-2/5, AEGL-2*3/5, **AEGL-2, AEGL-3.**
1744	Magnesium silicate hydrate	1343-90-4	10	30	50	250	
1745	Magnesium silicate; (Florisil)	1343-88-0	10	30	50	500	
1746	Magnesium sulfate (1:1)	7487-88-9	0.5	1.5	10	125	

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1747	Magnesium sulfate heptahydrate	10034-99-8	5	15	100	500	
1748	Magnesium(II) nitrate (1:2), hexahydrate	13446-18-9	20	60	500	500	Rat oral LD50.
1749	Malathion	121-75-5	15	15	15	250	PEL-TWA, TEEL-0, TEEL-0, IDLH.
1750	Maleic acid	110-16-7	3	7.5	60	300	Rat oral LD50.
1751	Maleic acid, disodium salt	371-47-1	25	75	500	500	Rat oral LD50.
1752	**Maleic anhydride**	**108-31-6**	0.8	**0.8**	**8**	**80.2**	ERPG-1, **ERPG-1, ERPG-2, ERPG-3.**
1753	Maleic hydrazide; (3,6-Pyridazinedione,1,2-dihydro-)	123-33-1	0.6	2	12.5	500	
1754	Malic acid, DL-	617-48-1	6	20	125	500	Mouse oral LD50 minimum,
1755	Malonic acid; (Carboxyacetic acid)	141-82-2	10	15	100	500	
1756	Mancozeb; (Dithane M-45)	8018-01-7	1	3	200	500	WEEL-TWA, rat oral TDlo, rat oral LD50
1757	Manganese	7439-96-5	0.2	3	5	500	
1758	Manganese carbonate	598-62-9	0.418	6.28	10.5	500	
1759	Manganese dioxide	1313-13-9	0.317	4.75	79.1	500	
1760	Manganese hydroxide	18933-05-6	0.324	4.86	8.1	500	
1761	Manganese nitrite	18488-90-9	0.535	8.02	13.4	500	Mn compounds TLV-TWA, REL-STEL, PEL-C, IDLH.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1762	Manganese oxalate	640-67-5	0.52	7.81	13	500	
1763	Manganese oxide; (Manganese tetroxide)	1317-35-7	0.278	0.833	69.4	500	
1764	Manganese phosphate	10124-54-6	0.43	6.46	10.8	500	TLV-TWA, REL-STEL, PEL-C, IDLH.
1765	Manganese tricarbonyl methylcyclopentadienyl	12108-13-3	0.6	0.6	0.6	7.5	
1766	Manganese(II) chloride (1:2); (Manganous chloride)	7773-01-5	0.458	6.87	11.5	100	
1767	Manganese(II) chloride tetrahydrate	13446-34-9	0.721	10.8	180	500	
1768	Manganese(II) nitrate	10377-66-9	0.651	9.77	16.3	500	
1769	Manganese(II) nitrate hydrate	15710-66-4	0.717	10.8	17.9	500	Mn inorganic compound concentration limits.
1770	Manganese(II) sulfate monohydrate	10034-96-5	0.615	9.23	15.4	75	
1771	Manganese(III) oxide	1317-34-6	0.287	4.31	71.8	500	Mn inorganic concentration limits, rat it LD lo.
1772	Manganese(VII) oxide	12057-92-0	0.404	6.06	10.1	50	
1773	Manganous oxide; (Manganese(II) oxide)	1344-43-0	0.258	0.775	6.46	150	
1774	Manganous sulfate	7785-87-7	0.55	8.25	13.7	500	
1775	Manganous sulfide; (Manganese(II) sulfide)	18820-29-6	0.317	0.95	7.92	500	
1776	Mastic (resin)	61789-92-2	4	12.5	100	500	

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Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1777	Melamine	108-78-1	10	10	10	350	WEEL-TWA, rat TClo, rat LC50.
1778	Mephosfolan	950-10-7	1.5	5	9	9	
1779	Mercaptoacetic acid; (Thioglycolic acid)	68-11-1	3.5	3.5	4	20	TLV-TWA, rat LC50.
1780	Mercaptobenzoic acid, o-	147-93-3	0.2	0.6	4	20	Mouse ip LD50.
1781	Mercaptobenzothiazole, 2-; (2-Benzothiazolethiol)	149-30-4	5	15	40	40	WEEL-TWA, pregnant rat TDlo. rat oral LD50.
1782	Mercaptoethanol, 2-	60-24-2	0.6	6	40	600	WEEL-TWA, rat oral TDlo, mouse LC50.
1783	Mercaptopropionic acid, 3-	107-96-0	0.25	0.75	6	40	Mouse subcutaneous TDlo, rat oral LD50.
1784	Mercuric acetate	1600-27-7	0.159	0.159	0.159	15.9	Hg Aryl cmpds. TLV-TWA, PEL-C, PEL-C, IDLH.
1785	Mercuric cyanide	592-04-1	0.0315	1.5	12.6	12.6	Hg compounds TLV-TWA, PEL-C, PEL-C, IDLH.
1786	Mercuric iodide; (Mercury(II) iodide)	7774-29-0	0.0566	0.17	0.227	22.7	Hg compounds TLV-TWA, PEL-C, PEL-C, IDLH.
1787	Mercuric sulfate; (Mercury(II) sulfate)	7783-35-9	0.037	0.037	0.148	14.8	Hg compounds TLV-TWA, PEL-C, PEL-C, IDLH.
1788	Mercuric thiocyanate; (Mercuric sulfocyanate)	592-85-8	0.0395	0.118	0.158	15.8	Hg compounds TLV-TWA, PEL-C, PEL-C, IDLH.
1789	Mercuric trifluoroacetate	13257-51-7	0.0213	0.0638	0.0851	4.3	Hg Alkyl cmpds. TLV-TWA, PEL-C, PEL-C, IDLH.
1790	Mercurol; (Mercury nucleate)	12002-19-6	0.025	0.075	0.1	10	Hg compounds TLV-TWA, PEL-C, PEL-C, IDLH.
1791	Mercurous chloride; (Mercury monochloride)	7546-30-7	0.0294	0.0883	0.118	11.8	Hg compounds TLV-TWA, PEL-C, PEL-C, IDLH.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1792	Mercurous nitrate monohydrate	7782-86-7	0.0351	0.0351	0.14	14	Hg compounds TLV-TWA, PEL-C, PEL-C, IDLH.
1793	Mercurous nitrate; (Mercury(I) nitrate(1:1))	10415-75-5	0.0327	0.0327	0.131	13.1	Hg compounds TLV-TWA, PEL-C, PEL-C, IDLH.
1794	Mercurous oxide; (Mercury(I) oxide)	15829-53-5	0.026	0.026	0.104	10.4	Hg compounds TLV-TWA, PEL-C, PEL-C, IDLH.
1795	Mercury hydroxide	12135-13-6	0.0292	0.0292	0.117	11.7	Hg compounds TLV-TWA, PEL-C, PEL-C, IDLH.
1796	Mercury nitrate; (Mercury(II) nitrate (1:2))	10045-94-0	0.0405	0.0405	0.162	16.2	Hg compounds TLV-TWA, PEL-C, PEL-C, IDLH.
1797	Mercury nitrite; (Mercury(II) nitrite)	18541-72-5	0.0365	0.0365	0.146	14.6	Hg compounds TLV-TWA, PEL-C, PEL-C, IDLH.
1798	**Mercury vapor**	**7439-97-6**	0.025	0.3	**2.05**	**4.10**	TLV-TWA, PAC-2/7, **ERPG-2, ERPG-3.**
1799	Mercury(I) chloride; (Dimercury chloride)	10112-91-1	0.0294	0.0883	1.18	11.8	Hg compounds TLV-TWA, PEL-C, PEL-C, IDLH.
1800	Mercury(II) chloride; (Mercury bichloride)	7487-94-7	0.0338	2	13.5	13.5	Hg compounds TLV-TWA, PEL-C, PEL-C, IDLH.
1801	Mercury(II) nitrate monohydrate	7783-34-8	0.0427	0.128	0.171	17.1	Hg compounds TLV-TWA, PEL-C, PEL-C, IDLH.
1802	Mercury(II) oxide; (Mercuric oxide)	21908-53-2	0.027	0.15	1.08	10.8	Hg compounds TLV-TWA, PEL-C, PEL-C, IDLH.
1803	**Mesitylene; (1,3,5-Trimethylbenzene)**	**108-67-8**	125	**688**	**1,770**	2,500	TLV-TWA, **AEGL-1, AEGL-2,** rat 240 min LC50.
1804	Metaphosphoric acid	37267-86-0	10	30	50	250	Used PNOS default.
1805	Methacrolein diacetate; (Acetic acid, 2-methyl-2-propene-1,1-diol diester)	10476-95-6	7.5	25	44	44	
1806	**Methacrylaldehyde**	**78-85-3**	0.2	**0.573**	**8.02**	**13.5**	AEGL-1/3, **AEGL-1, AEGL-2, AEGL-3.**

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1807	Methacrylamide	79-39-0	0.015	0.04	0.3	200	Human TClo, rat LD50.
1808	**Methacrylic acid**	**79-41-4**	23.6	**23.6**	**215**	**774**	AEGL-1, **AEGL-1, AEGL-2, AEGL-3.**
1809	Methacrylic acid, diester with triethylene glycol; (Polyester TGM3)	109-16-0	10	30	50	500	
1810	Methacrylic anhydride	760-93-0	0.75	2.5	4.5	150	
1811	**Methacrylonitrile; (Methylacrylonitrile)**	**126-98-7**	2.74	**2.74**	**35.7**	**68.6**	AEGL-1, **AEGL-1, AEGL-2, AEGL-3.**
1812	Methacryloyl chloride	920-46-7	0.125	0.35	0.6	25	
1813	Methamidophos	10265-92-6	3.5	10	60	60	
1814	Methane	74-82-8	600	2,000	3,000	125,000	TLV-TWA for aliphatic hydrocarbon gases, mouse 120 min LC50.
1815	Methane-d3	676-80-2	750	2,000	4,000	20,000	TLV-TWA.
1816	Methanesulfonic acid	75-75-2	4	12.5	75	400	
1817	Methanesulfonic acid, ethyl ester; (Ethyl methanesulfonate)	62-50-0	0.5	1.5	10	150	
1818	**Methanesulfonyl chloride**	**124-63-0**	0.4	1.25	**9.83**	**29**	AEGL-2/21, AEGL-2/7, **AEGL-2, AEGL-3.**
1819	Methanesulfonyl fluoride	558-25-8	12.5	12.5	12.5	12.5	
1820	Methidathion; (O,O-Dimethyl-S-(5-methoxy-1,3,4-thiadiazolinyl-3-methyl)dithiophosphate)	950-37-8	1	3	20	400	
1821	Methiocarb; (Mercaptodimethur)	2032-65-7	3	7.5	15	15	

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1822	Methomyl	16752-77-5	2.5	7.5	10	200	
1823	Methoxybenzaldehyde; (p-Anisaldehyde)	123-11-5	0.075	0.2	1.5	500	Rat oral TDlo, rat oral LD50.
1824	Methoxybenzyl alcohol, 4-	105-13-5	7.5	25	200	500	Rat skin TDlo, rat oral LD50.
1825	Methoxychlor	72-43-5	15	30	250	500	
1826	Methoxyethoxy)ethanol, 2-(2-; (Diethylene glycol monomethyl ether)	111-77-3	1.5	1.5	1.5	1.5	
1827	Methoxyethylamine, 2-	109-85-3	1.5	5	35	150	
1828	Methoxyethylmercuric acetate	151-38-2	0.0159	0.0477	3.18	3.18	
1829	Methoxyphenol, p-	150-76-5	5	15	100	500	Mouse ip TDlo, rat oral LD50.
1830	Methoxypropylamine, 3-; (3-MPA)	5332-73-0	15	50	50	150	WEEL-TWA, WEEL-STEL, MOUSE IV LD50.
1831	Methoxytrimethylsilane	1825-61-2	0.2	2	7.5	20	**SAR**
1832	Methyl 2-cyanoacrylate; (Permabond 910 adhesive)	137-05-3	0.75	15	60	60	
1833	Methyl 2-pyrrolidinone, 1-; (N-Methylpyrrolidone)	872-50-4	40	40	100	100	WEEL-TWA, rat TClo, rat LC lo.
1834	Methyl acetate	79-20-9	600	750	1,500	7,500	Concentration limits.
1835	Methyl acetylene	74-99-7	1,500	2,500	2,500	2,500	
1836	Methyl acetylene-propadiene mixture; (MAPP)	59355-75-8	3,000	4,000	4,000	10,000	PEL-TWA, TLV-STEL, IDLH.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1837	Methyl acrylate	96-33-3	6	6	25	500	
1838	**Methyl alcohol; (Methanol)**	**67-56-1**	250	**694**	**2,750**	**9,430**	PEL-TWA, **AEGL-1, AEGL-2, AEGL-3.**
1839	Methyl alcohol-d	1455-13-6	250	350	1,250	7,500	Methanol concentrtation limits.
1840	Methyl alcohol-d4	811-98-3	200	250	500	500	Methanol concentrtation limits.
1841	Methyl benzoate; (Benzoic acid, methyl ester)	93-58-3	12.5	35	250	500	Rat oral TDlo, rat oral LD50.
1842	Methyl bis(2-hydroxyethyl) cocoalkyl quaternary ammonium chlorides	70750-47-9	1.5	5	35	150	PAC-3/105, PAC-3/35, PAC-3/5, rat oral LD50.
1843	Methyl bis(2-hydroxyethyl) cocoalkyl quaternary ammonium nitrates	71487-00-8	1.5	5	35	150	PAC-3/105, PAC-3/35, PAC-3/5, rat oral LD50.
1844	**Methyl bromide; (Bromomethane)**	**74-83-9**	4	100	**815**	**2,870**	TLV-TWA, PEL-C, **AEGL-2, AEGL-3.**
1845	Methyl butylacrylate, 2-; (Butyl methacrylate)	97-88-1	2.5	7.5	50	500	
1846	**Methyl chloride**	**74-87-3**	200	200	**1,880**	**6,190**	PEL-TWA, TLV-STEL, **AEGL-2, AEGL-3.**
1847	**Methyl chloroformate; (Methyl chlorocarbonate)**	**79-22-1**	0.75	1.25	**8.5**	**9.27**	MAK-TWA, AEGL-2/7, **AEGL-2, AEGL-3.**
1848	**Methyl chlorosilane; (Chloromethylsilane)**	**993-00-0**	2	**5.93**	**72.5**	**329**	AEGL-1/3, **AEGL-1, AEGL-2, AEGL-3**
1849	**Methyl cyclohexylfluorophosphonate; (GF)**	**329-99-7**	0.0005	**0.0015**	**0.0177**	**0.133**	AEGL-1/3, **AEGL-1, AEGL-2, AEGL-3**
1850	Methyl demeton methyl; (Phosphorothioic acid, O,O-dimethyl-S-(2-methylthio)ethyl ester)	2587-90-8	4	12.5	20	20	

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Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1851	**Methyl dichlorosilane; (Dichloromethylsilane)**	**75-54-7**	1.25	**4.23**	**51.7**	**221**	AEGL-1/3, **AEGL-1, AEGL-2, AEGL-3.**
1852	Methyl difluorophosphite; (Methylphosphonic difluoride)	676-99-3	0.75	2.5	20	100	
1853	Methyl ether; (Dimethyl ether)	115-10-6	1,500	5,000	7,500	125,000	WEEL-TWA, human TClo, rat LC50.
1854	Methyl ethyl ketone peroxide	1338-23-4	7.5	20	150	150	
1855	Methyl fluoride; (Fluoromethane)	593-53-3	4.48	13.4	22.4	448	
1856	Methyl fluoroacetate	453-18-9	0.015	0.05	0.35	5	
1857	Methyl fluorosulfate	421-20-5	0.0125	0.035	0.25	1.25	
1858	Methyl formate; (Formic acid, methyl ester)	107-31-3	250	350	2,000	10,000	
1859	**Methyl iodide**	**74-88-4**	30	**145**	**290**	**725**	PEL-TWA, **ERPG-1, ERPG-2, ERPG-3.**
1860	Methyl isobutyl ketone; (Hexone)	108-10-1	300	300	300	2,000	PAC-1, TLV-STEL, PAC-1, IDLH.
1861	**Methyl isocyanate**	**624-83-9**	0.04	**0.058**	**0.156**	**0.466**	PEL-TWA, **ERPG-1, AEGL-2, AEGL-3**
1862	Methyl isopropyl ketone; (3-Methyl-2-butanone)	563-80-4	600	600	600	2,000	
1863	Methyl isothiocyanate; (Isothiocyanatomethane)	556-61-6	1.5	4	33	500	
1864	Methyl lithium	917-54-4	1	3	20	100	
1865	**Methyl mercaptan**	**74-93-1**	1	12.5	**92.4**	**134**	TLV-TWA, AEGL-2/7, **AEGL-2, AEGL-3.**

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Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1866	Methyl mercury	22967-92-6	0.0107	0.0322	0.043	2.15	PEL-TWA, TLV-STEL, PEL-C, IDLH.
1867	**Methyl methacrylate**	**80-62-6**	69.6	**69.6**	**491**	**2,330**	AEGL-1, **AEGL-1, AEGL-2, AEGL-3.**
1868	Methyl n-amyl ketone	110-43-0	400	400	600	3,500	
1869	Methyl nitrate; (Nitric acid, methyl ester)	598-58-3	15	50	350	1,500	Rat LC50
1870	**Methyl nonafluorobutyl ether (40%) and Methyl nonafluoroisobutyl ether (60%) (ppm) (HFE-7100)**	**163702-07-6 163702-08-7**	7,500	**25,600**	**83,800**	**153,000**	WEEL-TWA, **AEGL-1, AEGL-2, AEGL-3**
1871	Methyl parathion	298-00-0	0.2	0.34	0.34	15	
1872	Methyl phencapton	3735-23-7	2	6	11	100	
1873	Methyl phosphonic dichloride	676-97-1	0.06	0.2	1.4	15	
1874	Methyl phosphonothioic dichloride	676-98-2	1.5	4	30	150	
1875	Methyl pyridine, 3-; (3-Picoline)	108-99-6	7.5	20	500	2,500	WEEL-TWA, WEEL-STEL, rat 120 min LC lo.
1876	Methyl salicylate	119-36-8	0.75	2.5	15	75	
1877	Methyl sulfoxide-d6; (Dimethyl-d6-sulfoxide)	2206-27-1	35	100	500	500	
1878	**Methyl tert-butyl ether; (MTBE)**	**1634-04-4**	180	**180**	**2,050**	**19,100**	TLV-TWA, **AEGL-1, AEGL-2, AEGL-3.**
1879	Methyl thiocyanate	556-64-9	15	40	75	75	

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Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1880	Methyl vinyl carbinol; (3-Buten-2-ol)	598-32-3	0.6	2	15	75	
1881	**Methyl vinyl ketone; (3-Buten-2-one)**	**78-94-4**	0.15	**0.487**	**3.44**	**6.88**	AEGL-1/3, **AEGL-1, AEGL-2, AEGL-3.**
1882	Methyl-1-butene, 2-	563-46-2	150,000	150,000	600,000	1,000,000	Simple asphyxiant
1883	Methyl-1H-benzotriazole	29385-43-1	10	30	50	300	
1884	Methyl-1-phenyl-2-pyrazolin-5-one, 3-	89-25-8	15	40	300	500	
1885	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.
1886	Methyl-1-propen-1-one, 2-; (Dimethylketene)	598-26-5	0.075	0.25	2	10	
1887	Methyl-2-(1-methylethyl)phenol, 5-; (Thymol)	89-83-8	0.075	0.25	1.5	400	Rat sc TDlo pre, rat oral LD50.
1888	Methyl-2-butene, 2-	513-35-9	6	15	125	600	Rat LC50 eztimated from HHR = 2.
1889	Methyl-2-chloroacrylate	80-63-7	0.25	0.75	5	35	
1890	Methyl-2-heptanone, 6-	928-68-7	10	30	50	250	PNOS default.
1891	Methyl-2-hexanone, 5-; (Methyl isoamyl ketone)	110-12-3	400	600	7,500	7,500	
1892	Methyl-3-penten-2-one, 4-; (Mesityl oxide)	141-79-7	100	100	100	5,000	
1893	Methyl-4-penten-2-one, 4-	3744-02-3	100	100	100	5,000	
1894	Methyl-5-nitroaniline, 2-; (5-Nitro-o-toluidine; Benzenamine, 2-methyl-5-nitro-)	99-55-8	1	3	150	250	TLV-TWA, TEEL-0*3, mouse oral TDlo, rat oral LD50.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1895	Methyl-5-vinylpyridine, 2-	140-76-1	0.35	1	1.9	40	
1896	Methyl-8-quinolinol, 2-	826-81-3	10	30	50	250	PNOS default.
1897	Methylal; (Dimethoxymethane)	109-87-5	3,000	6,000	6,000	6,000	
1898	Methylamine hydrochloride	593-51-1	3.5	10	60	500	Mouse ip TDlo, rat oral LD50.
1899	Methylamino)ethanol, 2-(	109-83-1	10	30	200	1,000	Rat oral LD50.
1900	Methylaniline, N-	100-61-8	7.5	7.5	10	400	
1901	Methylaziridine, 1-	1072-44-2	4	4	4	200	**SAR**
1902	Methylbutanamide, 3-; (Isovaleramide)	541-46-8	6	20	125	500	
1903	Methylbutylamine, N-	110-68-9	7.5	20	150	750	Rat 240 min LC lo.
1904	Methylcellulose	9004-67-5	10	30	50	500	
1905	Methylchlorodisilane; (Chloromethyldisilane)	68937-17-7	0.4	1.25	10	50	
1906	Methylcholanthrene 3-	56-49-5	0.2	0.6	4	75	
1907	Methylcyclohexane	108-87-2	2,000	5,000	5,000	5,000	Concentration limits
1908	Methylcyclohexanone	1331-22-2	7.5	25	150	750	
1909	Methylcyclohexanone, 2-; (o-Methylcyclohexanone)	583-60-8	350	350	500	2,500	

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Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1910	Methylcyclopentane	96-37-7	15	40	300	12,500	Rat oral TDlo, Mouse LC lo (120 min assumed)
1911	Methyldecane, 4-	2847-72-5	10	30	50	250	PNOS default.
1912	**Methyldichloroarsine; (Dichloromethylarsine)**	**593-89-5**	0.053	0.053	**0.053**	**0.16**	AEGL-2, AEGL-2, **AEGL-2, AEGL-3.**
1913	Methylene bis(2-chloroaniline), 4,4'-; (MBOCA)	101-14-4	0.1	0.3	5	500	
1914	Methylene bis(4-isocyanatocyclohexane), 1,1'-	5124-30-1	0.05	0.05	0.1	2	
1915	**Methylene chloride; (Dichloromethane)**	**75-09-2**	75	**694**	**1,940**	**24,000**	PEL-TWA, **AEGL-1, AEGL-2, AEGL-3.**
1916	**Methylene diphenyl diisocyanate; (Diphenylmethane diisocyanate; MDI)**	**101-68-8**	0.05	**0.2**	**2**	**25**	TLV-TWA, **ERPG-1, ERPG-2, ERPG-3.**
1917	Methylene fluoride; (Difluoromethane; HFC-32)	75-10-5	2,000	6,000	100,000	750,000	WEEL-TWA, rat TClo, rat 240 min LC50.
1918	Methylenebis(isocyanato-benzene), 1,1'-; (Diphenyl methane diisocyanate)	26447-40-5	5	15	25	125	PEL-TWA as CN.
1919	Methylenebisacrylamide, N,N'-	110-26-9	1.5	5	35	150	Mouse oral TDlo, rat oral LD50
1920	Methylenedianiline, 4,4'-	101-77-9	0.075	0.75	4	150	
1921	Methylethyl hydroperoxide, 1-; (Isopropyl hydroperoxide)	3031-75-2	0.6	2	12.5	60	
1922	Methylformamide, N-	123-39-7	40	125	750	1,000	Rat TClo, rat oral LD50.
1923	Methylfuran, 2-	534-22-5	20	60	150	150	
1924	Methylheptane, 2-	592-27-8	10	30	200	1,000	Estimated rat 240 min LC50 from HHR.

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Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1925	Methylheptane, 4-	589-53-7	40	125	200	1,000	
1926	Methylhydrosiloxane (3-4%) + dimethylsiloxane (96-97%) copolymer	68037-59-2	10	30	50	250	PNOS TLV-TWA default used.
1927	Methylimidazole, 1-	616-47-7	6	15	125	500	Mouse oral LD50.
1928	Methylimidazole, 4-	822-36-6	20	60	300	300	Rat oral TDlo, rat oral LD50.
1929	Methyllactic acid ethyl ester, 2-; (Ethyl 2-hydroxyisobutyrate)	80-55-7	15	50	400	500	
1930	**Methyllactonitrile 2-; (Acetone cyanohydrin)**	**75-86-5**	5	**6.96**	**24.7**	**52.2**	WEEL-TWA, **AEGL-1, AEGL-2, AEGL-3.**
1931	Methylmagnesium bromide, 3.0 m in diethyl ether	75-16-1	2	6	40	200	Rat 240 min LC50 based on HR =3.
1932	Methylmagnesium chlordie	676-58-4	1.5	5	35	150	Rat oral LD50 based on HHR = 3.
1933	Methylmercuric dicyanamide	502-39-6	0.0149	0.0447	2.98	2.98	
1934	Methylmorpholine, 4-	109-02-4	7.5	25	150	750	Rat 240 min LC lo
1935	Methylnaphthalene, 1-	90-12-0	0.5	20	20	500	TLV-TWA, Russ STEL, rabbit skin TDlo, rat oral LD50.
1936	Methylnaphthalene, 2-	91-57-6	0.5	0.5	3.5	500	TLV-TWA, PAC-2/7, rabbit skin TDlo, rat oral LD50.
1937	Methylnitrosopiperidine, 3-; (Piperidine, 3-methyl-1-nitroso-)	13603-07-1	0.3	0.75	6	30	
1938	Methylnonane, 4-	17301-94-9	12.5	40	250	1,250	Estimated rat LC50.
1939	Methylpentane, 2-; (Isohexane)	107-83-5	1,500	1,500	1,500	7,500	TLV-TWA, REL-C, REL-C, PAC-2*5.

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Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1940	Methylpentane, 3-	96-14-0	1,500	1,500	1,500	7,500	Concentration limits (TLV-TWA, STEL, REL-C.
1941	Methylpentanol-1, 2-; (Amyl methyl alcohol)	105-30-6	1	3	20	600	Human TClo, rat oral LD50.
1942	Methylphenol, 2-; (o-Cresol)	95-48-7	20	20	100	1,000	
1943	Methylphenol, 3-; (m-Cresol)	108-39-4	20	20	100	1,000	
1944	Methylphenol, 4-; (p-Cresol)	106-44-5	20	20	100	1,000	
1945	Methylphenylthiourea, 2-; (o-Tolyl thiourea)	614-78-8	10	30	50	50	
1946	Methylphosphonate	993-13-5	10	10	10	10	PNOS default.
1947	Methylphosphonothioic acid, S-(2-(dimethylamino)ethyl) O-ethyl ester	20820-80-8	0.0006	0.0015	0.0125	0.06	Human LC50.
1948	Methylphosphonothioic acid-O-(4-nitrophenyl)-O-phenyl ester	2665-30-7	1.5	5	8	8	
1949	Methylphosphonothioic acid-O-ethyl O-(4-(methylthio)phenyl) ester	2703-13-1	2	6	10	10	LOC, rat oral LD lo.
1950	Methylpropane, 2-; (Isobutane)	75-28-5	2,500	7,500	12,500	35,000	TLV-TWA, TEEL-0*3, TEEL-0*5, rat LC50.
1951	Methylpropene, 2-; (Isobutene)	115-11-7	600	1,500	3,000	200,000	TLV-TWA, TEEL-0 x 3, TEEL-0 x 5, rat 240 min LC50.
1952	Methylpropylnitrosoamine; (N-Methyl-N-nitroso-1-propanamine)	924-46-9	0.04	0.125	0.75	15	
1953	Methylpyridine, 2-; (2-Picoline)	109-06-8	7.5	20	20	1,250	WEEL-TWA, WEEL-STEL, rat oral TDlo, rat LC50
1954	Methylpyrrole, N-	96-54-8	75	250	500	500	Rat oral LD50 based on HHR

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Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1955	Methylpyrrolidine; (Methylpyrrolidine, 1-)	120-94-5	0.75	2	15	75	Mouse ip LD50
1956	Methylstyrene, alpha-	98-83-9	250	500	500	3,500	Concentration limits.
1957	Methyltetrahydrofuran, 2-	96-47-9	20	60	400	2,000	Rat LC50
1958	Methyltriacetoxysilane	4253-34-3	7.5	25	150	500	
1959	**Methyltrichlorosilane; (Trichloromethyl silane)**	**75-79-6**	1.25	**3.67**	**37.9**	**171**	AEGL-1/3, **AEGL-1, AEGL-2, AEGL-3.**
1960	Methyltriethoxysilane	2031-67-6	40	125	750	4,000	Rat 480 min LC lo.
1961	Methyl-trifluoromethanesulfonate	333-27-7	7.2	21.6	36	500	
1962	Methyltrimethoxysilane	1185-55-3	50	150	500	500	Rat oral LD50
1963	Methyltrioctylammonium chloride	5137-55-3	0.75	2.5	20	100	
1964	**Methylvinyldichlorosilane; (Dichloromethylvinylsilane)**	**124-70-9**	1.5	**5.19**	**63.4**	**288**	AEGL-1/3, **AEGL-1, AEGL-2, AEGL-3.**
1965	Methylvinylsiloxane-dimethylsiloxane copolymer, vinyl terminated	68083-18-1	10	30	50	250	PNOS default used.
1966	Metolcarb; (Methylcarbamic acid m-tolyl ester)	1129-41-5	1	3	4.8	200	
1967	Mevinphos; (Phosdrin)	7786-34-7	0.1	0.3	4	4	PEL-TWA, REL-STEL, LOC, 1DLH.
1968	Mexacarbate; (4-(Dimethylamine)-3,5-xylyl N-methylcarbamate)	315-18-4	2.5	7.5	14	14	
1969	Mica; (mica silicates)	12001-26-2	3	9	15	75	TLV-TWA, TEEL-0*3, TEEL-0*5, PAC-2*5.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1970	Michler's ketone; (4,4'-bis(dimethylamino)benzophenone)	90-94-8	1	3.5	25	40	
1971	Mineral fibers, fine	z-0032	10	30	50	50	
1972	Mineral oil, heavy or light; (Paraffin oil; Deobase, deodorized)	8020-83-5	0.2	0.6	500	500	
1973	Mineral oil, petroleum distillates, heavy naphthenic	64741-53-3	0.2	0.6	100	500	Mouse sk TDlo
1974	Mineral oil, petroleum distillates, solvent-refined (mild) heavy paraffinic	64741-88-4	0.2	0.6	1	500	Rat oral LD50
1975	Mineral oil, petrolleum distillates, solvent refined light naphthenic	64741-97-5	40	125	500	500	Rat oral LD minimum.
1976	Mineral oil, white	8042-47-5	0.2	0.6	500	500	Used PNOS default
1977	Mineral oil; (Oil mist, mineral)	8012-95-1	5	10	10	500	Conc. limits
1978	Mirex; (Perchloropentacyclodecane)	2385-85-5	0.03	0.075	0.6	100	
1979	Mitomycin C	50-07-7	4	12.5	23	23	LOC, rat LD50
1980	Molecular sieve 13X	63231-69-6	7.5	25	150	500	Estimated rat oral LD50 from HHR.
1981	Molybdate orange	12656-85-8	5	15	75	500	
1982	Molybdenum	7439-98-7	10	30	50	500	TLV-TWA, TLV-TWA*3, TLV-TWA*5, IDLH.
1983	Molybdenum carbide	12011-97-1	11.3	33.8	56.3	500	
1984	Molybdenum dioxide	18868-43-4	6.67	6.67	6.67	500	Mo insol cmpd conc. Limits, mouse sc LD50

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
1985	Molybdenum disilicide	12136-78-6	15.9	47.6	79.3	500	Mo insol cmpd conc. Limits
1986	Molybdenum hexacarbonyl	13939-06-5	27.5	82.6	138	500	TLV-TWA for insoluble Mo compounds.
1987	Molybdenum pentachloride	10241-05-1	14.2	14.2	500	500	Mo soluble concentration limits, rat oral TDlo.
1988	Molybdenum trioxide	1313-27-5	7.5	7.5	7.5	500	Mo insol cmpd conc. limits
1989	Molybdenum(IV) sulfide	1317-33-5	16.7	50.1	83.4	500	Rat oral LD50 > 2 g/kg
1990	Molybdic acid	7782-91-4	8.44	8.44	8.44	500	Mo sol cmpds conc. limits
1991	Molybdic acid, ammonium salt; (Ammonium molibdate)	11098-84-3	11.7	11.7	500	500	Mo TLV-TWA, IDLH, as Mo.
1992	Molybdic acid, disodium salt; (Disodium molybdate)	7631-95-0	10.7	10.7	10.7	500	Mo sol cmpds conc. limits
1993	Molybdic acid, hexaammonium salt; (Ammonium heptamolybdate)	12027-67-7	8.67	8.67	8.67	500	Mo sol cmpds conc. limits
1994	Molybdophosphoric acid	12026-57-2	7.93	7.93	7.93	500	Mo soluble concentration limits.
1995	Molybdophosphoric acid hydrate; (Phosphomolybdic acid hydrate)	51429-74-4	8.07	8.07	8.07	500	Mo sol cmpds conc. limits
1996	Monobutyl phosphite	16456-56-7	6	20	150	500	Mo sol cmpds conc. limits
1997	Monochloroamine; (Chloramide)	10599-90-3	0.1	0.35	2	10	PAC-2/21, PAC-2/7, rat oral TDlo, PAC-2 x 5.
1998	Monochloropentafluoroethane; (CFC-115)	76-15-3	6,000	15,000	30,000	2,000,000	
1999	Monocrotophos	6923-22-4	0.05	0.15	0.63	25	

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Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2000	**Monomethylamine; (Methylamine)**	**74-89-5**	12.5	**19**	**81.3**	**444**	PEL-TWA, **AEGL-1, AEGL-2, AEGL-3.**
2001	**Monomethylhydrazine; (Methyl hydrazine)**	**60-34-4**	0.015	0.35	**1.7**	**5.09**	TLV-TWA, PEL-C, **AEGL-2, AEGL-3.**
2002	Monosodium titanate	60704-88-3	10	30	50	250	
2003	Montmorillonite	1318-93-0	30	30	30	30	Rat intratracheal TDlo, rat iv LD50.
2004	Morpholine	110-91-8	60	100	100	5,000	
2005	Morpholinepropanesulfonic acid, 4-	1132-61-2	1.25	4	25	125	Quail oral LD50 maximum.
2006	Morpholino)ethanesulfonic acid monohydrate, 2-(N-	4432-31-9	1.25	4	25	125	Quail oral LD50 minimum.
2007	Muscimol; (5-Aminomethyl-3-isoxyzole)	2763-96-4	3.5	10	17	20	Rat oral LD50, human TDlo
2008	Mustard gas sulfoxide; (bis(2-chloroethyl)sulfoxide)	5819-08-9	0.4	1.25	7.5	40	Mouse subcutaneous LD lo.
2009	Myoglobins	9008-45-1	10	30	50	250	PNOS default.
2010	Myristic acid, butyl ester; (Tetradecanoic acid, butyl ester)	110-36-1	35	100	600	3,500	Rat oral LD50
2011	Myristic acid, isopropyl ester; (Tetradecanoic acid, isopropyl; Isopropyl myristate)	110-27-0	200	500	500	500	
2012	Nabumetone; (Relafen; 4-(6-methoxy-2-naphthyl)-2-butanone)	42924-53-8	10	30	125	500	
2013	Nadic methyl anhydride	25134-21-8	0.75	2	15	75	
2014	Naphtha (coal tar); (Naphtha [petroleum] light aliphatic; Aliphatic naphtha)	8030-30-6	400	1,500	4,000	4,000	PEL-TWA, PAC-2/7, women oral TDlo, IDLH.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2015	Naphtha (petroleum), heavy catalytic cracked	64741-54-4	15	40	300	500	PAC-2/21, PAC-2/7, rat oral TDlo, rat LC lo min.
2016	Naphtha (petroleum), light straight-run	64741-46-4	400	1,500	4,000	4,000	Used Naphtha (coal tar) (8030-30-6) PACs.
2017	Naphtha, heavy aliphatic solvent	64742-96-7	15	40	300	500	Used Naphtha (petroleum) heavy catalytic cracked (64741-54-4) PACs
2018	Naphtha, hydrotreated heavy; (Isopar L-rev 2)	64742-48-9	1,250	3,500	6,000	7,500	OEL-TWA, rat oral LD50 from HHR.
2019	Naphthalenamine, 1-; (1-Naphthylamine)	134-32-7	0.6	1.5	12.5	350	
2020	Naphthalene	91-20-3	50	75	75	1,250	PEL-TWA, TLV-STEL, PAC-1, IDLH.
2021	Naphthaleneacetamide, 1-	86-86-2	6	20	150	500	
2022	Naphthalenetrisulfonic acid sodium salt, 1,3,6-	19437-42-4	10	30	50	250	PNOS default.
2023	Naphthenic acid, lead salt	61790-14-5	0.0544	0.163	30	109	
2024	Naphthol, 1-	90-15-3	25	75	500	500	Rabbit TDlo, rat LD50.
2025	Naphthol, 2-	135-19-3	0.0025	0.0075	0.05	500	Human TClo, rat oral LD50.
2026	Naphthol-8-sulfonic acid, sodium salt, 2-	832-85-9	2	6	40	200	PNOS default. Mouse oral LD lo.
2027	Naphthoquinone, 1,4-	130-15-4	0.075	0.25	1.5	75	
2028	Naphthylamine, beta-	91-59-8	1.5	5	35	300	
2029	Naphthylthiourea, alpha-; (ANTU)	86-88-4	0.3	0.9	10	100	

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Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2030	Neatsfoot oil; (Fats and glyceridic oils)	8002-64-0	10	30	50	250	PNOS default used.
2031	Neodecanoic acid	26896-20-8	12.5	40	300	500	
2032	Neodymium	7440-00-8	0.0008	0.0025	0.02	0.1	Human intracerebral TDlo.
2033	Neodymium bromide	13536-80-6	10	30	50	250	
2034	Neodymium fluoride	13709-42-7	8.83	26.5	44.1	500	
2035	Neodymium hydroxide	16469-17-3	0.75	0.75	2	75	**SAR**
2036	Neodymium nitrate	10045-95-1	7.5	25	150	500	
2037	Neodymium nitrate, pentahydrate	14517-29-4	10	30	50	250	PNOS default.
2038	Neodymium nitrite	z-0033	0.04	0.1	0.75	75	**SAR**
2039	Neodymium(III) chloride	10024-93-8	0.6	1.5	12.5	60	PAC-3/105, PAC-3/35, PAC-3/5, rat intraperitoneal LD50.
2040	Neodymium(III) oxide	1313-97-9	10	30	50	500	Rat oral LD50
2041	Neon	7440-01-9	50,000	50,000	150,000	300,000	Simple asphyxiant
2042	Nickel	7440-02-0	1	4.5	10	10	Nickel concentration limits.
2043	Nickel acetate tetrahydrate	6018-89-9	4.24	4.24	4.24	42.4	Ni PEL-TWA, IDLH
2044	Nickel aluminide	12003-78-0	1.36	1.36	1.36	13.6	Ni compound concentration limits.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2045	Nickel carbonate hydroxide; (Basic nickel carbonate tetrahydrate)	39430-27-8	2.14	2.14	4	21.4	Nickel concentration limits.
2046	Nickel carbonate hydroxide; (Basic nickel(II) carbonate)	12607-70-4	1.73	1.73	1.73	17.3	Nickel concentration limits.
2047	**Nickel carbonyl**	**13463-39-3**	0.006	0.251	**0.251**	**1.12**	PEL-TWA, AEGL-2**, AEGL-2, AEGL-3.**
2048	Nickel chloride; (Nickelous chloride)	7718-54-9	2.21	2.21	2.21	22.1	Nickel concentration limits.
2049	Nickel cyanide	557-19-7	0.377	1.13	9.44	18.9	Nickel concentration limits.
2050	Nickel fluoride	13940-83-5	2.88	2.88	3	28.8	Ni insoluble concentration limits.
2051	Nickel formate	3349-06-2	3.15	3.15	6	31.5	Nickel concentration limits.
2052	Nickel oxalate (liquids)	6018-94-6a	2.5	2.5	2.5	25	Nickel concentration limits.
2053	Nickel oxalate (solids)	6018-94-6b	2.5	2.5	2.5	25	Nickel concentration limits.
2054	Nickel oxide; (Nickel(II) oxide)	1313-99-1	1.27	1.27	12.7	12.7	Nickel concentration limits.
2055	Nickel perchlorate	13637-71-3	6.23	6.23	6.23	62.3	Ni insoluble PEL-TWA, IDLH.
2056	Nickel sulfamate; (Nickel(II) sulfamate)	13770-89-3	4.27	4.27	4.27	200	Nickel concentration limits.
2057	Nickel sulfate hexahydrate; (Nickel(II) sulfate hexahydrate)	10101-97-0	4.48	4.48	10	44.8	Nickel concentration limits.
2058	Nickel sulfate; (Nickel(II) sulfate)	7786-81-4	2.64	2.64	2.64	26.4	Nickel concentration limits.
2059	Nickel(2+) stearate	2223-95-2	10.7	32	53.3	107	Ni compound concentration limits.

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Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

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

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Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2075	Niobium chloride	10026-12-7	6	15	125	500	
2076	Niobium pentoxide; (Niobium(V) oxide)	1313-96-8	10	30	200	500	Rat it TDlo, mouse oral LD50.
2077	Niobium(IV) carbide	12069-94-2	11.3	33.9	56.5	250	PNOS default used.
2078	Nitrapyrin; (2-Chloro-6-(trichloromethyl)pyridine)	1929-82-4	15	20	20	400	PEL-TWA, TLV-STEL, rabbit oral TDlo, rat oral LD50.
2079	Nitrate(s)	14797-55-8	10	30	50	250	
2080	**Nitric acid**	**7697-37-2**	1.37	**1.37**	**61.8**	**237**	AEGL-1, **AEGL-1, AEGL-2, AEGL-3.**
2081	Nitric acid, butyl ester; (Butyl nitrate)	928-45-0	10	30	50	250	PNOS default.
2082	Nitric acid, ethyl ester; (Ethyl nitrate)	625-58-1	1.25	3.5	25	125	Cat ip LD50.
2083	Nitric acid, pentyl ester; (Amyl nitrate)	1002-16-0	125	400	2,500	12,500	Mouse 420 min LC lo.
2084	**Nitric oxide**	**10102-43-9**	0.613	**0.613**	**14.7**	**24.5**	N.O2 AEGL-1, **AEGL-1, AEGL-2, AEGL-3.**
2085	Nitrilotriacetic acid, disodium salt; (Disodium nitrilotriacetate)	15467-20-6	6	15	125	500	Rat oral LD50.
2086	Nitrilotriacetic acid, trisodium salt, monohydrate	18662-53-8	0.06	0.2	1.25	500	Rat oral TDlo, rat oral LD50.
2087	Nitrilotriacetic acid; (Aminotriacetic acid)	139-13-9	35	100	500	500	
2088	Nitrilotris tri-phosphonic acid; (Amino, tris[methylene phosphonic acid])	6419-19-8	10	10	35	500	WEEL-TWA, rat oral TDlo, rat oral LD50
2089	Nitroaniline, 2-; (o-Nitroaniline)	88-74-4	6	20	125	500	Rat 4 hr LC50

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Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2090	Nitroaniline, 3-; (m-Nitroaniline)	99-09-2	0.6	1.5	12.5	200	
2091	Nitroaniline, p-	100-01-6	6	9	300	300	
2092	Nitrobenzene	98-95-3	5	15	100	1,000	
2093	Nitrobenzenesulfonic acid, sodium salt, 3-	127-68-4	40	125	500	500	Rat oral LD50.
2094	Nitrobiphenyl, 4-; (p-Nitrobiphenyl)	92-93-3	0.25	0.75	5	500	
2095	Nitrochlorobenzene, m-; (1-Chloro-3-nitrobenzene; m-chloronitrobenzene)	121-73-3	0.06	0.2	1.25	150	Rat TClo, rat oral LD50.
2096	Nitrocyclohexane	1122-60-7	0.3	0.75	1.5	60	
2097	Nitrocyclohexene, 1-; (1-Nitrocyclohex-1-ene)	2562-37-0	1.5	5	40	200	**SAR**
2098	Nitrodiphenylamine, 2-	119-75-5	30	100	500	500	
2099	Nitroethane	79-24-3	300	300	600	3,000	
2100	Nitrogen	7727-37-9	75,000	75,000	250,000	400,000	Simple asphyxiant
2101	**Nitrogen dioxide**	**10102-44-0**	0.94	**0.94**	**22.6**	**37.6**	AEGL-1, **AEGL-1, AEGL-2, AEGL-3.**
2102	Nitrogen mustard hydrochloride	55-86-7	0.75	2.5	4	4	
2103	**Nitrogen mustard; (Bis(b-chloroethyl)methylamine)**	**51-75-2**	0.001	0.003	**0.022**	**0.37**	AEGL-2/21, AEGL-2/7, **AEGL-2, AEGL-3.**
2104	Nitrogen tetroxide	10544-72-6	10	15	15	75	

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Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2105	**Nitrogen trifluoride**	**7783-54-2**	30	150	**1,160**	**2,320**	PEL-TWA, ERPG-2/7, **ERPG-2, ERPG-3.**
2106	Nitrogen trioxide; (Dinitrogen trioxide)	10544-73-7	75	150	300	1,500	
2107	Nitroglycerin	55-63-0	0.1	0.1	2	75	
2108	Nitromethane	75-52-5	50	150	250	1,500	TLV-TWA, IDLH.
2109	Nitromethane-d3; (Trideuteronitromethane)	13031-32-8	50	150	250	2,000	TLV-TWA, IDLH of Nitromethane, 75-52-5.
2110	Nitro-m-xylene, 2-; (1,3-Dimethyl-2-nitrobenzene)	81-20-9	10	30	200	500	Rat oral LD50.
2111	Nitronium Tetrafluoroborate	13826-86-3	4.37	13.1	21.8	150	Fluoride PEL-TWA, mouse iv LD50.
2112	Nitrophenol (mixed isomers)	25154-55-6	0.75	2.5	15	75	4-Nitrophenol PACs used.
2113	Nitrophenol, 2-; (o-Nitrophenol)	88-75-5	1.25	4	30	150	Rat oral LD50
2114	Nitrophenol, 3-; (m-Nitrophenol)	554-84-7	1.25	4	30	150	Rat oral LD50
2115	Nitrophenol, 4-; (p-Nitrophenol)	100-02-7	0.75	2.5	15	75	Rat oral LD50
2116	Nitropropane, 1-	108-03-2	75	75	75	3,500	
2117	Nitropropane, 2-	79-46-9	75	100	150	350	
2118	Nitropyrene, 1-	5522-43-0	0.1	0.3	2	10	
2119	Nitropyridine-N-oxide, 4-; (Pyridine, 4-nitro, 1-oxide)	1124-33-0	15	50	80	80	

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2120	Nitrosodimethylamine	62-75-9	3.5	10	19	19	
2121	Nitrosodiphenylamine, p-	156-10-5	0.1	0.3	2	150	
2122	Nitrosodipropylamine; (DPNA)	621-64-7	0.06	0.2	1.25	200	
2123	Nitrosomorpholine	59-89-2	12.5	30	30	30	
2124	Nitroso-N-methylurea, N-	684-93-5	0.015	0.05	0.35	50	
2125	Nitrosophenol, p-	104-91-6	2	6	40	200	
2126	Nitrosotoluene, 2-: (o-Nitrosotoluene)	611-23-4	7.5	25	150	500	Rat oral TDlo.
2127	Nitrosyl chloride	2696-92-6	0.06	0.2	1.25	6	
2128	Nitrosylsulfuric acid	7782-78-7	1.5	5	35	150	Rat LD50 based on HHR = 3.
2129	Nitrotoluene, m-	99-08-1	25	35	50	1,000	
2130	Nitrotoluene, o-	88-72-2	25	35	50	1,000	PEL-TWA, TLV-TWA*3, TLV-TWA*5, IDLH.
2131	Nitrotoluene, p-	99-99-0	25	35	50	1,000	
2132	Nitrous acid	7782-77-6	1	3	15	200	Used HNO3 limits
2133	Nitrous oxide	10024-97-2	75	250	15,000	35,000	
2134	Nonacosane	630-03-5	10	30	50	250	

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2135	Nonanal	124-19-6	2	6	40	500	
2136	Nonane; (Shellsol 140)	111-84-2	1,000	3,000	5,000	7,500	
2137	Nonanenitrile; (1-Octyl cyanide)	2243-27-8	150	150	150	750	Used PEL-TWA for cyanides
2138	Nonanoic acid	112-05-0	25	75	500	500	Rat oral LD lo.
2139	Nonanone, 2-	821-55-6	6	15	125	500	Rat LClo > 3980 mg/m3
2140	Nonene, 1-	124-11-8	2.5	7.5	50	250	Estimated rat LC50.
2141	Nonoxynol-4	7311-27-5	10	30	50	250	
2142	Nonyl alcohol	143-08-8	25	75	500	500	Rat 240 min TClo, mouse 120 min LC50.
2143	Nonyl phenol (mixed isomers)	25154-52-3	6	20	125	500	
2144	Nonyl phenol, 4- (branched)	84852-15-3	5	15	100	500	
2145	Nonyl phenol, p-	104-40-5	6	20	125	500	
2146	Nonylphenol, 4-, branched, ethoxylated	127087-87-0	10	30	200	500	
2147	Nonylphenoxypolyethoxyethanol	68412-54-4	10	30	50	250	
2148	**Nonyltrichlorosilane**	**5283-67-0**	2	**6.42**	**78.1**	**353**	AEGL-1/3, **AEGL-1, AEGL-2, AEGL-3.**
2149	Norbormide	991-42-4	0.75	2	3.8	3.8	

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2150	Norchlorofluoroepibatidine	z-0034	0.	0.0001	0.0008	0.0013	
2151	Octachlorodibenzodioxin, 1,2,3,4,6,7,8,9-; (OCDD, Octachlorodibenzo-p-dioxin)	3268-87-9	0.004	0.01	0.075	0.4	
2152	Octachlorodibenzofuran, 1,2,3,4,6,7,8,9-	39001-02-0	0.003	0.0075	0.06	10	
2153	Octachloronaphthalene	2234-13-1	0.1	0.3	0.5	1	Concentration limits.
2154	Octacosane	630-02-4	350	350	1,500	7,500	NIOSH concentration limits for alkanes.
2155	Octadecane, n-	593-45-3	350	350	1,500	7,500	NIOSH concentration limits for alkanes.
2156	Octadecanoic acid, n-; (Stearic acid)	57-11-4	60	150	500	500	Rat oral TDlo, rat oral LD50.
2157	Octadecanol, 1-	112-92-5	25	75	600	7,500	
2158	Octadecenoic acid, 9-; (Oleic acid)	112-80-1	0.015	0.05	0.4	500	Rat oral LD50
2159	Octadecyl methacrylate	32360-05-7	10	30	50	250	PNOS default.
2160	**Octadecyltrichlorosilane**	**112-04-9**	3	**9.51**	**116**	**523**	AEGL-1/3**, AEGL-1, AEGL-2, AEGL-3.**
2161	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.
2162	Octamethylcyclotetrasiloxane	556-67-2	150	400	3,000	4,000	Rat 240M LC50, rat TClo
2163	Octamethyldiphosphoramide; (Octamethylpyrophosphoramide)	152-16-9	0.15	0.5	0.8	3.5	
2164	Octanal, 1-; (Octanal; Octanaldehyde)	124-13-0	20	60	500	500	

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2165	Octanamine, 1-	111-86-4	0.4	1.25	7.5	40	Rat oral LD lo
2166	Octane, n-	111-65-9	1,250	1,250	1,500	4,000	
2167	Octanedione, 2,5-	3214-41-3	20	60	500	500	Estimated LC50.
2168	Octanenitrile	124-12-9	7.5	20	150	750	
2169	Octanethiol, 1-	111-88-6	0.15	0.4	3	750	REL-C, rat oral LD50
2170	Octanoic acid; (Caprylic acid)	124-07-2	40	125	500	500	Rat oral LD50
2171	Octanol, 2-	123-96-6	12.5	35	250	350	PAC-2/21, PAC-2/7, rat 120 min TClo, human oral LD lo.
2172	Octanone, 2-	111-13-7	60	200	200	500	
2173	Octaphenylcyclotetrasiloxane	546-56-5	20	60	400	500	Rat oral LD50 minimum.
2174	**Octene, 1-**	**111-66-0**	183	**183**	**3,670**	**9,170**	ERPG-1, **ERPGs-1, ERPG-2, ERPG-3.**
2175	Octyl alcohol; (n-octanol)	111-87-5	50	50	50	350	WEEL-TWA, human TClo, human LD lo.
2176	Octyl(phenyl)-N,N-diisobutylcarbamoylmethylphosphine oxide	83242-95-9	10	30	50	250	
2177	**Octyltrichlorosilane**	**5283-66-9**	2	**6.05**	**73.6**	**333**	AEGL-1/3, **AEGL-1, AEGL-2, AEGL-3.**
2178	Oil gas; (Oil fog)	z-0035	200	750	1,500	2,000	
2179	**Oleum; (fuming sulfuric acid)**	**8014-95-7**	0.2	**0.20**	**8.7**	**160**	AEGL-1, **AEGL-1, AEGL-2, AEGL-3.**

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2180	Organorhodium complex	z-0036	0.292	8.75	15	500	
2181	Orthoformic acid, trimethyl ester; (Trimethyl orthoformate)	149-73-5	0.4	1.25	7.5	40	Rat LC50 assumed.
2182	Osmium	7440-04-2	0.25	0.75	6	30	Dog intravenous LD lo.
2183	**Osmium tetroxide**	**20816-12-0**	0.002	0.006	**0.0873**	**41.6**	PEL-TWA, TLV-STEL, **AEGL-2, AEGL-3.**
2184	**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**
2185	Ouabain	630-60-4	1.5	5	8.3	12.5	
2186	Oxalic acid dihydrate	6153-56-6	1	2	100	500	PEL-TWA, TLV-STEL, PAC-3/5, IDLH.
2187	Oxalic acid, anhydrous; (Ethanedioic acid)	144-62-7	1	2	40	500	PEL-TWA, TLV-STEL, rat ip TDlo, IDLH.
2188	Oxalyl chlorine	79-37-8	10	30	200	1,000	Rat 60 min LC50.
2189	Oxamide	471-46-5	1.5	5	40	200	
2190	Oxamyl	23135-22-0	0.35	1	1.7	15	
2191	Oxathiane, 1,4-	15980-15-1	15	50	350	1,500	
2192	Oxirane, ethenyl-; (3,4-Epoxy-1-butene)	930-22-3	10	30	75	75	
2193	Oxone, monopersulfate compound	37222-66-5	10	30	50	250	PNOS default.
2194	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.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2195	Oxydiacetic acid; (Oxodiacetic acid)	110-99-6	2	6	40	200	
2196	Oxydiethylenedicarbonic acid, diallyl ester	142-22-3	3	10	60	125	Rabbit skin 6-18 day preg. TDlo, rat LC50.
2197	Oxydiphenoxarsine, 10,10'-; (Phenoxyarsine oxide)	58-36-6	1.68	2	14	14	PEL-TWA, LOC, guinea pig LC lo.
2198	Oxydisulfoton	2497-07-6	0.6	2	3.5	3.5	
2199	Oxygen (liquid)	7782-44-7					TEELs withdrawn.
2200	**Oxygen difluoride; (Fluorine monoxide)**	**7783-41-7**	0.1	0.25	**1.83**	**5.52**	PEL-TWA, AEGL-2/7, **AEGL-2, AEGL-3.**
2201	Ozone	10028-15-6	0.2	0.3	2	10	PEL-TWA, PAC-2/7, EEGL, IDLH.
2202	Palladium	7440-05-3	10	30	50	200	
2203	Palladium chloride	7647-10-1	0.15	0.4	3	500	
2204	Palladium hydroxide	12135-22-7	0.125	0.3	2.5	75	**SAR**
2205	Paraffin waxes, petroleum, clay-treated, reaction products with petroleum white mineral oil, stearic acid and triethanolamine	71808-29-2	10	30	50	250	Used PNOS default
2206	Paraffin, n-	8002-74-2	2	15	15	500	
2207	Paraffins, petroleum, normal C5-C20	64771-72-8	2,000	2,000	2,000	2,000	
2208	Paraformaldehyde	30525-89-4	4	12.5	75	100	
2209	Paraldehyde	123-63-7	10	30	50	500	

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2210	Paraquat	4685-14-7	0.15	0.2	1.5	150	LOC, PAC-2/7, rat ip TDlo, human oral LD lo.
2211	Paraquat dichloride	1910-42-5	0.5	0.5	0.5	1	PEL-TWA, TEEL-0, TEEL-0, IDLH.
2212	Paraquat methosulfate; (Paraquat dimethyl sulphate)	2074-50-2	0.75	2	15	40	
2213	Parathion	56-38-2	0.1	0.15	2	10	PEL-TWA, TLV-TWA*3, LOC, IDLH.
2214	Paris Green; (Cupric acetoarsenite)	12002-03-8	1.13	3.38	22	22	
2215	Particulate material (PNOS)	z-0037	10	30	50	250	Used PNOS default
2216	PBX (mixture of HMX and nitrocellulose)	z-0038	0.24	0.6	5	500	Assumed 25% HMX & 75% CTN mixture
2217	**Pentaborane**	**19624-22-7**	0.0125	0.04	**0.361**	**1.81**	PEL-TWA, TLV-STEL, **AEGL-2, AEGL-3.**
2218	Pentachlorobenzene	608-93-5	10	30	150	400	
2219	Pentachlorodibenzofuran, 1,2,3,7,8-	57117-41-6	0.0025	0.0075	0.06	0.3	
2220	Pentachlorodibenzofuran, 2,3,4,7,8-	57117-31-4	0.	0.0001	0.0006	0.4	
2221	Pentachlorodibenzo-p-dioxin, 1,2,3,7,8-	40321-76-4	0.0008	0.0025	0.015	0.075	
2222	Pentachloroethane	76-01-7	10	30	500	500	
2223	Pentachloronitrobenzene	82-68-8	0.5	1.5	300	500	
2224	Pentachlorophenol	87-86-5	0.5	2.5	2.5	2.5	

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2225	Pentadecafluorooctanoic acid	335-67-1	4	12.5	75	75	Rat ip TDlo and LD50.
2226	Pentadecane	629-62-9	30	75	600	3,000	Mouse intravenous LD50.
2227	Pentadecanoic acid	1002-84-2	0.4	1.25	7.5	40	
2228	Pentadecylamine	2570-26-5	0.1	0.3	2	100	
2229	Pentaerythritol	115-77-5	15	30	50	500	
2230	Pentaerythritol tetra(3-mercaptopropionate), reaction products with 2-(hydroxymethyl)-2-((3-mercapto-1-oxopropoxy)methyl)-1,3-propanediyl bis(3-mercaptopropanoate) and 1-octene	95823-35-1	10	30	50	250	PNOS default used.
2231	Pentaerythritol tetranitrate	78-11-5	0.015	0.05	0.35	500	
2232	Pentafluorobenzoic acid	602-94-8	0.75	2	15	75	Mouse intraperitoneal LD50.
2233	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.
2234	Pentane, n-	109-66-0	1,500	1,500	1,500	4,000	
2235	Pentanediol, 1,5-	111-29-5	7.5	25	150	500	Rat oral LD50
2236	Pentanedione, 2,4-; (Acetylacetone)	123-54-6	60	200	400	400	
2237	Pentanenitrile	110-59-8	5	15	75	75	
2238	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.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2239	Pentanone, 2-; (Methyl propyl ketone)	107-87-9	500	500	500	5,000	PEL-TWA, TLV-STEL, human TClo, IDLH.
2240	Pentanone, 3-; (Diethyl ketone)	96-22-0	600	1,000	1,000	3,000	TLV-TWA, TWA-STEL, rat LClo
2241	Pentatriacontane	630-07-9	10	30	50	250	
2242	Pentene, 1-	109-67-1	750	2,500	15,000	200,000	Human TClo. Rat 240 min LC50.
2243	Pentobarbital sodium; (Nembutal sodium)	57-33-0	0.15	0.5	3.5	50	
2244	Pentyl alcohol, tert-; (tert-Amyl alcohol)	75-85-4	200	400	400	400	Human LD lo, rat TClo
2245	Peptone; (Hydrolized protein, Tryptones)	73049-73-7	10	30	50	250	
2246	**Peracetic acid**	**79-21-0**	0.15	**0.52**	**1.60**	**15**	AEGL-1/3, **AEGL-1, AEGL-2, AEGL-3.**
2247	Perboric acid, sodium salt	7632-04-4	0.5	1.5	10	500	Rat TClo, mouse LD50.
2248	Perchloric acid	7601-90-3	4	12.5	100	500	
2249	Perchloric acid, zinc salt, hexahydrate	10025-64-6	0.6	1.5	12.5	60	Mouse ip LD lo.
2250	**Perchloroethylene; (Tetrachloroethylene)**	**127-18-4**	150	**237**	**1,560**	**8,130**	TLV-TWA, **AEGL-1, AEGL-2, AEGL-3.**
2251	**Perchloromethyl mercaptan**	**594-42-3**	0.0988	**0.0988**	**2.28**	**6.84**	AEGL-1, **AEGL-1, AEGL-2, AEGL-3.**
2252	Perchloryl fluoride; (Chlorine oxyfluoride)	7616-94-6	12.5	25	75	400	PEL-TWA, TLV-STEL, IDLH/5, IDLH.
2253	Percoll	65455-52-9	10	30	50	250	PNOS default

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2254	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.
2255	Perfluoroalkylether polymer; (Capped homopolymers of hexafluoropropylene epoxide, Fluorine End-)	60164-51-4	75	250	500	500	Rat oral LD50 based on HHR = 1.
2256	**Perfluoroisobutylene; (Octafluoro-sec-butene)**	**382-21-8**	0.04	0.1	**0.82**	**2.5**	ERPG-2/21, ERPG-2/7, **ERPG-2, ERPG-3.**
2257	Perfluoropolyether; (1,1,2,3,3,3-hexafluoro-1-propene, oxidized, polymerized; Vacuum pump oil)	69991-67-9	10	30	200	500	Estimated LC50.
2258	Periodic acid	10450-60-9	0.18	0.18	0.5	5	
2259	Periodic acid, sodium salt	7790-28-5	0.25	0.75	5	25	Mouse ip LD50.
2260	Perlite; (Fused NaKAl silicate, < 1% quartz)	93763-70-3	15	45	75	500	PEL-TWA, TEEL-0*3, TEEL-0*5, mouse oral LD50.
2261	Permafluor E+	z-0039	100	150	500	500	
2262	Permafluor-V (85+% toluene)	z-0040	150	500	1,000	1,500	
2263	Peroxydicarbonic acid, disodium salt	3313-92-6	7.5	25	150	500	
2264	Petrolatum	8009-03-8	15	50	350	500	Rabbit skin TDlo, mouse ip LD50 maximum.
2265	Petroleum 50 thinner; (Paint thinner)	z-0041	40	125	750	4,000	
2266	Petroleum asphalt	8052-42-4b	1.25	4	25	125	Rat 24W im TDlo
2267	Petroleum coke, calcined	64743-05-1	10	30	50	500	PNOS default, IDLH.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2268	Petroleum distillate	8002-05-9a	350	350	500	500	REL-TWA, TEEL-0, REL-C, IDLH.
2269	Petroleum distillates, clay-treated light naphthenic	64742-45-6	20	60	400	500	
2270	Petroleum distillates, low boiling	68477-31-6	350	350	500	500	REL-TWA, TEEL-0, REL-C, IDLH.
2271	Petroleum mineral oil; (Extracts, petroleum, middle distillate solvent)	64742-06-9	10	30	500	500	
2272	Petroleum spirits; (Mineral spirits; Soltrol)	64475-85-0	75	250	1,500	7,500	
2273	Petroleum spirits; (VM & P Naphtha)	8032-32-4	1,250	1,250	1,500	1,500	
2274	Petroleum; (Petroleum crude oil)	8002-05-9b	350	500	500	500	REL-TWA, TEEL-0, REL-C, IDLH.
2275	Phenacetin; (p-acetophenetidide)	62-44-2	10	30	50	60	
2276	Phenaglycodol; (Ultran; 2-p-chlorophenyl-3-methyl-2,3-butanediol)	79-93-6	10	30	50	350	
2277	Phenanthrene	85-01-8	0.4	1	7.5	300	
2278	Phenanthroline ferrous sulfate, 1,10-	14634-91-4	10	30	50	250	
2279	Phenanthroline, 1,10-	66-71-7	0.1	0.3	2	30	Mouse ip 8D preg TDlo, mouse ip LD50.
2280	**Phenol**	**108-95-2**	20	**57.7**	**88.5**	**769**	PEL-TWA, **AEGL-1, AEGL-2, ERPG-3.**
2281	Phenol red, sodium salt	34487-61-1	7.5	25	150	500	Rat LD50 estimated from HHR = 2.
2282	Phenol, polymer with formaldehyde, oxiranylmethyl ether	28064-14-4	15	50	350	500	Rat oral LD50 minimum ex MSDS.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2283	Phenolphthalein	77-09-8	0.75	2.5	15	400	
2284	Phenoxyethanol, 2-; (Phenyl cellosolve)	122-99-6	100	100	100	500	MAK-TWA, rat TClo, rat LD50.
2285	**Phenyl Chloroformate; (Carbonochloridic acid, phenyl ester)**	**1885-14-9**	0.06	0.15	**1.22**	**3.65**	AEGL-2/21, AEGL-2/7, **AEGL-2, AEGL-3.**
2286	**Phenyl dichloroarsine; (Dichlorophenylarsine)**	**696-28-6**	0.061	0.061	**0.061**	**0.18**	AEGL-2, AEGL-2, **AEGL-2, AEGL-3.**
2287	Phenyl ether; (Diphenyl ether)	101-84-8	6	12.5	125	600	
2288	Phenyl isocyanate.	103-71-9	0.3	0.75	2	2	Rat TClo, rat LC50.
2289	Phenyl sepharose cl-4b	69106-59-8	10	30	50	250	PNOS default used.
2290	Phenyl-1,2-propanedione, 1-	579-07-7	2.5	7.5	50	250	
2291	Phenyl-2-oxzaoline, 2-	7127-19-7	6	15	30	150	TLV-TWA based on other phenyl compounds.
2292	Phenyl-2-propanol, 2-; (Dimethylphenylmethanol)	617-94-7	5	15	100	500	
2293	Phenylacetylene; (Ethynylbenzene)	536-74-3	40	100	500	500	Rat oral LD50.
2294	Phenylazo)aniline, p-(	60-09-3	0.6	2	12.5	75	
2295	Phenylboric acid; (Benzeneboronic acid)	98-80-6	3	7.5	60	300	
2296	Phenylcyclohexane; (Cyclohexylbenzene)	827-52-1	40	125	500	500	Rat oral LD lo.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2297	Phenylene diisocyanate, 1,4-	104-49-4	3.5	10	35	35	
2298	Phenylenediamine dihydrochloride, 1,2-	615-28-1	10	30	125	125	
2299	Phenylenediamine dihydrochloride, 1,4-	624-18-0	0.6	1.5	12.5	60	
2300	Phenylenediamine, 1,2-; (o-Phenylenediamine)	95-54-5	0.1	0.3	200	500	
2301	Phenylenediamine, 1,3-; (m-Phenylenediamine)	108-45-2	0.1	0.3	10	125	
2302	Phenylenediamine, p-	106-50-3	0.1	0.6	4	25	
2303	Phenylhydrazine	100-63-0	0.4	1.25	2	60	Conc. limits
2304	Phenylhydrazine hydrochloride	59-88-1	50	150	250	250	
2305	Phenylmagnesium bromide	100-58-3	1.5	5	35	150	Estimated rat oral LD50 based on HHR.
2306	Phenylmercury acetate; (Acetoxyphenylmercury)	62-38-4	0.168	16.8	16.8	16.8	TLV-TWA, TEEL-0, PEL-C, IDLH.
2307	Phenylphenol, 2-	90-43-7	25	75	500	500	
2308	Phenylphosphine	638-21-1	0.04	0.125	0.2	75	
2309	Phenylpropanolamine hydrochloride; (Propadrine hydrochloride)	154-41-6	0.06	0.15	1.25	500	Human oral TDlo, rat oral LD50.
2310	Phenylsilatrane	2097-19-0	0.2	0.6	1	1	
2311	Phenylthiourea; (1-phenyl-2-thiourea)	103-85-5	3	3	3	3	

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Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2312	Phenyltriethoxysilane	780-69-8	10	35	250	500	Rat oral LD50
2313	Phenyltrimethoxysilane	2996-92-1	1.5	4	30	150	Mouse iv LD50
2314	Phenylxylylethane; (PXE)	6196-95-8	10	30	50	250	
2315	Phloroglucinol dihydrate	6099-90-7	4	12.5	75	400	Mouse ip LD lo minimum.
2316	Phorate	298-02-2	0.05	0.1	0.6	0.6	
2317	Phosacetim	4104-14-7	0.75	2	3.7	3.7	
2318	Phosfolan	947-02-4	1.5	5	9	9	
2319	**Phosgene**	**75-44-5**	0.4	0.4	**1.21**	**3.03**	PEL-TWA, PEL-TWA, **AEGL-2, AEGL-3**
2320	Phosmet	732-11-6	0.025	0.075	0.54	40	
2321	Phosphamidon; (Famfos)	13171-21-6	0.06	0.15	0.3	60	
2322	**Phosphine**	**7803-51-2**	0.4	1.25	**2.78**	**5**	PEL-TWA, TLV-STEL**, AEGL-2, AEGL-3.**
2323	Phosphomolybdic acid	11104-88-4	16.7	50	83.3	400	Mo TLV-TWA concentration limit.
2324	Phosphonic acid	13598-36-2	2	6	50	500	Rat oral TDlo, rat oral LD50.
2325	Phosphonic acid, dioctadecyl ester	19047-85-9	0.02	0.06	0.4	2	**SAR**
2326	Phosphonic acid, tridodecyl ester	3076-63-9	12.5	40	250	500	Rat oral LD lo

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2327	Phosphoric acid	7664-38-2	1	3	500	500	
2328	Phosphoric acid, dimethyl-p-(methylthio)phenyl ester	3254-63-5	1.25	4	7	7	
2329	Phosphorous acid, o-; (Phosphonic acid)	10294-56-1	1	3	200	500	Phosphoric acid (7664-38-2) concentraqtion limits used.
2330	Phosphorous pentafluoride	7647-19-0	3	7.5	60	300	
2331	Phosphorous trifluoride	7783-55-3	4	10	75	400	
2332	Phosphorus (red)	7723-14-0	0.04	0.125	0.75	4	Rat oral TDlo, human LD lo.
2333	Phosphorus (yellow); (White phosphorus)	12185-10-3	0.1	0.4	3	5	PEL-TWA, LOC, IDLH.
2334	**Phosphorus oxychloride**	**10025-87-3**	0.6	3	3	**5.33**	TLV-TWA, LOC, LOC**, AEGL-3.**
2335	Phosphorus pentachloride	10026-13-8	1	2	12.5	70	
2336	Phosphorus pentasulfide	1314-80-3	1	3	50	250	
2337	**Phosphorus pentoxide**	**1314-56-3**	1	**1**	**10**	**50**	MAK-TWA, **ERPG-1, ERPG-2, ERPG-3.**
2338	**Phosphorus trichloride**	**7719-12-2**	1.91	**1.91**	**11.2**	**31.4**	AEGL-1, **AEGL-1, AEGL-2, AEGL-3.**
2339	Phosphorus trioxide	1314-24-5	0.4	1.25	7.5	40	Estimated rat 240 min LC50
2340	Phthalic acid	88-99-3	0.02	0.06	0.5	500	
2341	Phthalic acid, benzyl butyl ester; (Benzyl butyl phthalate)	85-68-7	5	15	500	500	UK OEL-TWA, rat TClo, rat oral LD50.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2342	Phthalic anhydride	85-44-9	12	12	40	60	
2343	Phthaloyl dichloride; (Phthaloyl chloride)	88-95-9	0.75	2.5	15	75	Rat 240 min LC50 based on HHR = 3
2344	Physostigmine	57-47-6	0.75	2.5	4.5	4.5	
2345	Physostigmine salicylate (1:1)	57-64-7	0.5	1.5	2.5	2.5	
2346	Picolinic acid; (2-Pyridinecarboxylic acid)	98-98-6	10	35	150	150	Mouse ip TDlo and LD50.
2347	Picric acid	88-89-1	0.1	0.3	15	75	
2348	Picrotoxin	124-87-8	3	7.5	15	15	
2349	Pigment green 36	14302-13-7	15	50	350	500	
2350	Pigment yellow 13; (Butanamide, 2,2'-((3,3'-dichloro(1,1'-biphenyl)-4,4'-diyl)bis(azo)bis(N-(2,4-dimethylphenyl)-3-oxo-)	5102-83-0	75	250	500	500	
2351	Pigment yellow 14	5468-75-7	20	60	400	500	Rat LD 50 minimum.
2352	Pigment yellow 36; (Zinc chromate)	13530-65-9	0.0176	0.106	15	52.9	Cr VI concentration limits.
2353	Pinacolone; (3,3-Dimethyl-2-butanone)	75-97-8	6	20	750	4,000	Mouse 240 min LC50.
2354	Pinacolyl alcohol; ((tert-Butyl methyl carbinol)	464-07-3	1,000	3,000	3,500	3,500	
2355	Piperazine	110-85-0	2	6	40	500	
2356	**Piperidine**	**110-89-4**	3.5	**23**	**115**	**383**	WEEL-TWA, **AEGL-1, AEGL-2, AEGL-3.**

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2357	Pirimifos-ethyl	23505-41-1	5	15	25	60	
2358	Pivalic anhydride; (Trimethylacetic anhydride)	1538-75-6	10	30	50	250	PNOS default.
2359	Platinum	7440-06-4	1	3	4	4	
2360	Platinum cyanide	592-06-3	0.0025	0.0076	0.0127	5.07	
2361	Poly alpha olefin; (Synthetic hydrocarbon mixture, PAO; Hydrogenated trimer and tetramer of decene)	68649-12-7	5	10	50	250	
2362	Poly(1-(2-oxo-1-pyrrolidinyl)ethylene)iodine complex; (Iodine solutions)	25655-41-8	12.5	50	400	500	Mixt OEL, PAC-2/7, human skin TDlo, mouse oral LD50.
2363	Poly(1-vinyl-2-pyrrolidinone) homopolymer; (Polyvinylpyrrolidone; Plasdone)	9003-39-8	100	300	500	500	Rat iv TDlo, mouse ip LD50
2364	Poly(acrylamide-co-diallyldimethylammonium chloride)	26590-05-6	10	30	50	250	PNOS dwfault used.
2365	Poly(dimethylsiloxane), ethoxylated, dihydroxy terminated; (Silicon oil polymer)	68037-63-8	75	250	500	500	Rat LD50 based on HHR.
2366	Poly(dimethylsiloxane), hydride terminated	70900-21-9	10	30	50	250	PNOS default used.
2367	Poly(dimethylsiloxane), vinyl dimethylsiloxy terminated	68083-19-2	60	200	500	500	Rat oral LD50 minimum.
2368	Poly(divinylbenzene); (Diethylbenzene homopolymer)	9003-69-4	7.5	25	150	500	Rat oral LD50, based on HHR.
2369	Poly(ethylene glycol methyl ether)	9004-74-4	75	250	500	500	Rat oral LD50.
2370	Poly(ethylene glycol)diacrylate	26570-48-9	1.5	5	35	150	Rat oral LD50 estimated from HHR = 3.
2371	Poly(melamine-co-formaldehyde), methylated	68002-20-0	60	150	500	500	Rat oral LD50.

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Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2372	Poly(oxy-1,2-ethanediyl), alpha-(4-octylphenyl)-omega-hydroxy-; (Polyethylene glycol mono(p-octylphenol)ether)	26636-32-8	3	7.5	60	300	Mouse intravenous LD50.
2373	Poly(oxyethylene)(2) stearyl ether	9005-00-9	7.5	20	150	500	Rat oral LD50
2374	Poly(Styrene-co-divinylbenzene); (Dowex Optipore V-502)	69011-14-9	10	30	50	250	PNOS default used.
2375	Polyamide 6; (Capron; Poly(iminocarbonylpentamethylene))	25038-54-4	10	30	200	500	
2376	Polybutyl acrylate	9003-49-0	10	30	50	250	
2377	Polychlorinated biphenyl (Aroclor 1016); (Chlorodiphenyl (41% Cl))	12674-11-2	0.2	0.6	1	5	
2378	Polychlorinated biphenyl (Aroclor 1016/1242): (Chlorodiphenyl (37% Cl))	z-0042	0.2	0.6	1	5	
2379	Polychlorinated biphenyl (Aroclor 1221); (Chlorodiphenyl (21% Cl))	11104-28-2	0.2	0.6	1	5	
2380	Polychlorinated biphenyl (Aroclor 1232); (Chlorodiphenyl (32% Cl))	11141-16-5	0.2	0.6	1	5	
2381	Polychlorinated biphenyl (Aroclor 1242); (Chlorodiphenyl (42% Cl))	53469-21-9	1	3	5	5	
2382	Polychlorinated biphenyl (Aroclor 1248); (Chlorodiphenyl (48% Cl))	12672-29-6	0.2	0.6	1	5	
2383	Polychlorinated biphenyl (Aroclor 1254); (Chlorodiphenyl (54% Cl))	11097-69-1	0.5	1.5	2.5	5	
2384	Polychlorinated biphenyl (Aroclor 1260); (Chlorodiphenyl (60% Cl))	11096-82-5	0.2	0.6	1.5	5	
2385	Polychlorinated biphenyl (Aroclor 1260/1262): (Chlorodiphenyl (61% Cl?))	z-0043	0.2	0.6	1.5	5	
2386	Polychlorinated biphenyl (Aroclor 1262); (Chlorodiphenyl (62% Cl))	37324-23-5	1	3	5	5	

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2387	Polychlorinated biphenyl (Aroclor 1268); (Chlorodiphenyl (68% Cl))	11100-14-4	0.2	0.6	1	5	
2388	Polychlorinated biphenyl; (Aroclor; PCBs)	1336-36-3	1	3	5	5	
2389	Polydimethyl siloxane; (Dimethylpolysiloxane)	9016-00-6	7.5	25	150	500	Rat ip LD50 > 2 g/kg
2390	Polyether polyol ester	z-0112	15	50	350	500	Rat oral LD lo.
2391	**Polyethylbenzene residue; (Dowtherm Q)**	**68987-42-8**	7.5	20	**150**	750	WEEL-TWA, WEEL-TWA*3, **ERPG-2**, ERPG-2*5**.**
2392	Polyethylene	9002-88-4	10	30	50	500	
2393	Polyethylene glycol	25322-68-3	10	60	500	500	WEEL-TWA, rat TClo, rat iv LD lo.
2394	Polyethylene glycol 20M	37225-26-6	10	30	500	500	
2395	Polyethylene glycol dimethacrylate	25852-47-5	10	30	50	250	PNOS default used.
2396	Polyglycol 15-200: (Calthane NF and ND "B")	9082-00-2	40	125	500	500	Rat oral LD50 > 10 g/kg
2397	Polyisocyanate prepolymer (based on MDI)	z-0115	0.6	1.5	12.5	60	Rat TClo
2398	Polymaleic acid; (2-Butenediiodic acid homopolymer)	26099-09-2	10	30	50	250	PNOS TLV-TWA default used.
2399	Polymerized linseed oil	67746-08-1	7.5	25	150	500	Rat oral LD50 based on HHR = 2.
2400	Polymethylene polyphenyl isocyanate; (Polymeric diphenylmethane diisocyanate)	9016-87-9	2	6	40	200	Rat TClo, rat 240 min LC50.
2401	Polymethylhydrosiloxane; (Methyl hydrogen polysiloxane)	63148-57-2	10	30	50	250	PNOS TLV-TWA default used.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2402	Polymethylmethacrylate; (Lucite)	9011-14-7	5	15	100	500	Rat implant TDlo.
2403	Polyoxyalkyleneamine; (Poly(oxypropylene)diamine)	9046-10-0	10	30	50	100	
2404	Polyoxyethylene (20) sorbitan monolaurate	9005-64-5	3	7.5	60	500	Mouse, pregnant, ip TDlo, rat ip LD50.
2405	Polyoxyethylene monooctylphenyl ether	9036-19-5	15	50	350	500	
2406	Polyoxyethylene sorbitan monopalmitate; (Tween 40)	9005-66-7	12.5	40	250	500	Rat iv LD50.
2407	Polyoxypropylene polyamine	39423-51-3	10	30	50	250	Used PNOS default.
2408	Polyphosphoric acid	8017-16-1	1.5	5	40	200	
2409	Polypropylene	9003-07-0	12.5	40	250	500	
2410	Polypropylene glycol,chloromethyl) oxirane polymer	9072-62-2	7.5	25	150	500	Rat oral LD50 minimum.
2411	Polypropylene glycols	25322-69-4	10	30	200	500	WEEL-TWA, rat oral LD50.
2412	Polypropylene-polyethylene glycol; (Pluronic L-81)	9003-11-6	10	30	200	500	
2413	Polysorbate 85; (Tween 85)	9005-70-3	75	250	500	500	Rat oral LD50 based on HHR = 1,
2414	Polystyrene resin; (Styrene polymer)	9003-53-6	10	30	50	75	
2415	Polysulfone resin	25135-51-7	10	30	50	250	PNOS default.
2416	Polytetrafluoroethylene; (Teflon)	9002-84-0	3.5	10	60	350	Rat implant TDlo

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2417	Polyurethane foam; (Urethane polymers)	9009-54-5	0.2	0.6	5	25	
2418	Polyurethane prepolymer of MDI + polyether polyol	65636-36-4	10	30	50	250	Used PNOS default.
2419	Polyurethane prepolymer of MDI and PEP	68092-58-0	10	30	50	250	Used PNOS default.
2420	Polyvinyl alcohol	9002-89-5	40	125	500	500	
2421	Polyvinyl chloride	9002-86-2	1	3	40	200	TLV-TWA, TEEL-0*3, rat intratracheal TDlo, TEEL-2*5.
2422	Potassium	7440-09-7	0.075	0.2	1.5	300	PAC-2/21, PAC-2/7, rat oral TDlo, mouse ip LD50.
2423	Potassium acetate	127-08-2	12.5	40	250	500	
2424	Potassium acid fluoride	7789-29-9	5.14	15.4	25.7	500	Fluoride concentration limits.
2425	Potassium aluminate	12003-63-3	7.27	21.8	36.3	150	
2426	Potassium aluminite	z-0044	2.5	7.5	12.5	500	**SAR**
2427	Potassium aluminosilicate	1327-44-2	5	30	50	500	**SAR**
2428	Potassium antimonate	29638-69-5	2.1	6.31	10.5	210	
2429	Potassium antimonate; (Potassium hexahydroxyantimonate)	12208-13-8	1.08	3.24	5.4	108	
2430	Potassium antimonite	z-0045	0.94	2.82	4.7	94	Sb Conc. limits
2431	Potassium argentate	z-0046	0.0168	0.0503	0.0839	16.8	

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2432	Potassium arsenate; (Monopotassium arsenate)	7784-41-0	0.024	0.072	2.5	12	
2433	Potassium arsenite	10124-50-2	0.0533	6	26.7	26.7	
2434	Potassium arsenite; (Arsenous acid, potassium salt)	13464-35-2	0.0195	0.0585	6	9.74	
2435	Potassium beryllium oxide	z-0047	0.016	0.08	6	32	
2436	Potassium bicarbonate	298-14-6	12.5	35	60	500	
2437	Potassium bi-iodate	13455-24-8	4	12.5	75	400	MSDS K.I.O3 mouse oral LD lo.
2438	Potassium bismuthate	12589-75-2	1.25	4	25	200	**SAR**
2439	Potassium bisulfate	7646-93-7	10	30	200	500	
2440	Potassium bromate	7758-01-2	0.1	0.3	60	60	WEEL-TWA, human oral TDlo, rat oral LD50.
2441	Potassium bromide	7758-02-3	12.5	40	250	500	
2442	Potassium cadminate	z-0048	0.0115	0.069	0.115	20.7	
2443	Potassium carbonate	584-08-7	10	20	150	500	
2444	Potassium chlorate	3811-04-9	12.5	40	300	350	
2445	Potassium chloride	7447-40-7	1.5	5	15	15	
2446	Potassium chromate(VI)	7789-00-6	0.0187	0.75	6	56	Cr VI concentration limits.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2447	Potassium citrate	866-84-2	1.25	4	30	150	
2448	Potassium citrate, monohydrate	6100-05-6	10	30	50	250	PNOS default.
2449	Potassium columbate; (Potassium niobate)	12030-85-2	12.5	35	250	500	
2450	Potassium cyanide	151-50-8	5	5	5	62.6	
2451	Potassium dichromate	7778-50-9	0.0141	1.5	10	42.4	Cr VI concentration limits.
2452	Potassium dideuterium phosphate	13761-79-0	0.0015	0.004	0.0075	0.015	MSDS data.
2453	Potassium ferricyanide	13746-66-2	5.9	17.7	30	500	
2454	Potassium ferrocyanide; (Tetrapotassium hexacyanoferrate)	13943-58-3	11.8	35.4	59	59	Rat TClo, rat oral LD50.
2455	Potassium fluoride	7789-23-3	7.65	22.9	38.2	500	
2456	Potassium fluoride dihydrate	13455-21-5	12.4	37.2	61.9	500	Fluoride concentration limits.
2457	Potassium formate	590-29-4	20	60	500	500	
2458	Potassium glycolate	1932-50-9	35	75	600	3,500	**SAR**
2459	Potassium gold cyanide	554-07-4	27.7	83	138	138	PEL-TWA, PEL-TWA*3, PEL-TWA*5, IDLH, as CN.
2460	Potassium hexacyanoferrate(II) trihydrate; (Potassium ferricyanide trihydrate)	14459-95-1	13.5	40.6	67.6	67.6	PEL-TWA, PEL-TWA*3, PEL-TWA*5, IDLH, as CN.
2461	Potassium hexafluorosilicate; (Silicate(2-), hexafluoro-, dipotassium)	16871-90-2	0.4	1.25	7.5	60	Rat oral TDlo, rat oral LD50.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2462	Potassium hydride	7693-26-7	1.5	5	35	150	Rat oral LD50 based on HHR = 3.
2463	Potassium hydrogen lead oxide	z-0049	0.06	0.06	0.06	125	**SAR**
2464	Potassium hydrogen metasilicate	z-0051	10	30	50	250	Used PNOS default.
2465	Potassium hydrogen pyrophosphate	z-0050	4	12.5	20	400	**SAR**
2466	Potassium hydroxide	1310-58-3	0.1	0.3	2	125	PAC2/21, PAC-2/7, TLV-C, ret oral LD50.
2467	Potassium iminodiacetate; (Potassium IDA)	z-0052	35	100	750	4,000	
2468	Potassium iodate	7758-05-6	20	60	60	60	
2469	Potassium iodide	7681-11-0	0.25	0.75	6	300	
2470	Potassium lanthanate	z-0053	0.4	1.25	2.5	2.5	**SAR**
2471	Potassium metaborate	13709-94-9	12.5	35	250	500	**SAR**
2472	Potassium molybdate	13446-49-6	12.4	37.2	62.1	500	Molybdenum concentration limits.
2473	Potassium nickel oxide (liquids); (Nickel potassium oxide)	50811-97-7	2.88	2.88	3	28.8	Nickel concentration limits.
2474	Potassium nickelate (liquids)	z-0055	3.49	3.49	3.5	34.9	Nickel concentration limits.
2475	Potassium nickelate (solids)	z-0056	3.49	3.49	3.5	34.9	Nickel concentration limits.
2476	Potassium nitrate	7757-79-1	1	3.5	25	500	

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2477	Potassium nitrilotriacetate; (Potassium NTA)	2399-85-1	5	15	100	500	
2478	Potassium nitrite	7758-09-0	0.04	0.1	0.75	500	
2479	Potassium orthovanadate	14293-78-8	0.0638	0.191	0.638	44.6	
2480	Potassium oxalate	583-52-8	7.5	25	150	500	Woman oral LD lo.
2481	Potassium oxalate monohydrate	6487-48-5	7.5	25	150	500	
2482	Potassium oxide	12136-45-7	0.05	0.15	1	60	Based on potassium hydroxide TEELs.
2483	Potassium perchlorate	7778-74-7	125	400	500	500	
2484	Potassium periodate	7790-21-8	1	3	20	100	Estimated rat 240 min LC50 based on HR.
2485	Potassium permanganate	7722-64-7	0.575	8.63	14.4	125	
2486	Potassium persulfate; (Dipotassium persulfate)	7727-21-1	0.1	0.3	60	350	
2487	Potassium phosphate dibasic trihydrate	16788-57-1	300	500	500	500	
2488	Potassium phosphate, dibasic	7758-11-4	10	30	50	250	
2489	Potassium phosphate, monobasic	7778-77-0	10	30	50	500	
2490	Potassium phosphate, tribasic	7778-53-2	10	30	50	500	
2491	**Potassium phosphide**	**20770-41-6**	2.5	7.5	**12.1**	**21.8**	AEGL-2/5, AEGL-2*3/5, **AEGL-2, AEGL-3.**

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2492	Potassium pyrophosphate; (Tetrapotassium diphosphorate)	7320-34-5	10	30	500	500	
2493	Potassium pyrosulfate; (Disulfuric acid, dipotassium salt)	7790-62-7	10	30	50	250	
2494	Potassium pyrosulfite; (Potassium metabisulfite)	16731-55-8	20	60	400	500	TEEL-2/35, TEEL-2/7, rat oral pre/post preg TDlo, TEEL-2*5.
2495	Potassium selenate	7790-59-2	0.56	1.68	2.8	2.8	
2496	Potassium selenite	10431-47-7	0.52	0.52	0.52	2.6	
2497	Potassium silicate; (Silicic acid, potassium salt)	1312-76-1	10	30	50	250	PNOS default
2498	Potassium silver cyanide	506-61-6	1	3	20	20	
2499	Potassium stannate	12142-33-5	2.5	7.5	12.5	125	**SAR**
2500	Potassium strontium phosphate	53201-92-6	10	30	50	500	**SAR**
2501	Potassium sulfate (2:1); (Dipotassium sulfate)	7778-80-5	2	6	40	500	
2502	Potassium sulfite	10117-38-1	7.5	25	150	500	TEEL-3/105, TEEL-3/35, TEEL-3/5, estimated human LD lo.
2503	Potassium tellurate	15571-91-2	0.211	0.634	1.06	2	
2504	Potassium tellurite	7790-58-1	0.199	0.597	3.5	15	
2505	Potassium tetrafluoroborate(1-)	14075-53-7	4.14	124	207	414	Fluoride concentration limits.
2506	Potassium tetraphenylborate	3244-41-5	1	3	5	25	

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2507	Potassium thiocyanate	333-20-0	12.5	35	60	60	
2508	Potassium trihydrogen silicate	z-0058	10	30	50	250	
2509	Potassium tungstate (liquids)	7790-60-5a	1.77	5.32	5.32	5.32	
2510	Potassium tungstate (solids)	7790-60-5b	1.77	5.32	5.32	5.32	
2511	Potassium uranyl carbonate	z-0059	0.429	1.03	3.5	17.2	
2512	Potassium zirconate; (Dipotassium zirconium oxide)	12030-98-7	11.9	23.8	25	119	PEL-TWA, TLV-STEL, TLV-STEL, IDLH.
2513	Potassium-tert-butoxide; (tert-Butyl alcohol, potassium derivitave)	865-47-4	1.5	5	35	150	
2514	Praseodymium	7440-10-0	1.5	5	35	150	Rat oral LD50 based on HHR = 3.
2515	Praseodymium nitrate	10361-80-5	7.5	20	150	500	
2516	Praseodymium oxide	12036-32-7	7.5	25	150	500	
2517	Praseodymium(III,IV) oxide	12037-29-5	20	60	400	500	Rat oral LD50 minimum.
2518	Promecarb; (m-Cym-5-yl methylcarbamate)	2631-37-0	3	10	16	25	
2519	Propanamine, 1-; (Propylamine)	107-10-8	40	125	600	600	
2520	**Propane**	**74-98-6**	1,500	**9,920**	**30,600**	**59,500**	PEL-TWA, **AEGL-1, AEGL-2, AEGL-3.**
2521	Propane sultone, 1,3-	1120-71-4	0.4	1.25	7.5	20	

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2522	Propanediamine, 1,2-	78-90-0	7.5	25	200	500	
2523	Propanediamine, 1,3-	109-76-2	0.6	1.5	12.5	125	
2524	**Propanedinitrile; (Malononitrile)**	**109-77-3**	7.5	7.5	**13.2**	**27**	REL-TWA, REL-TWA, **AEGL-2, AEGL-3.**
2525	Propanediol, 1,3-	504-63-2	20	60	400	500	Mouse oral LD50
2526	Propanediol, 2,2-dimethyl-, 1,3-	126-30-7	2,500	2,500	2,500	2,500	Rat 360 min TClo, rat oral LD50.
2527	Propanethiol	107-03-9	0.075	0.2	1.5	2,500	REL-C, rat 240 min LC50.
2528	Propanol, zirconium(4+) salt, 1-	23519-77-9	18	53.9	89.8	180	Zr concentration limits.
2529	**Propargyl alcohol**	**107-19-7**	2	**5.73**	**36.7**	**170**	TLV-TWA, **AEGL-1, AEGL-2, AEGL-3.**
2530	Propargyl bromide	106-96-7	0.03	0.03	0.03	20	WEEL-TWA, LOC, rat oral LD50.
2531	Propiolactone, b-	57-57-8	1.5	1.5	15	40	
2532	**Propionaldehyde**	**123-38-6**	40	**107**	**617**	**1,990**	TLV-TWA, **AEGL-1, AEGL-2, AEGL-3..**
2533	Propionic acid	79-09-4	30	30	40	1,000	
2534	Propionic acid, 3-ethoxy-, ethyl ester	763-69-9	20	60	400	500	
2535	Propionic acid, sodium salt	137-40-6	15	50	350	500	Mouse oral LD50, rat TDlo.
2536	Propionic anhydride	123-62-6	10	30	200	500	

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2537	**Propionitrile; (Propiononitrile)**	**107-12-0**	12.5	12.5	**15.8**	**83.3**	REL-TWA, REL-TWA, **AEGL-2, AEGL-3.**
2538	Propionyl chloride	79-03-8	0.3	0.75	6	30	
2539	Propoxur	114-26-1	0.5	1.5	20	20	
2540	Propoxypropanol, , n-; (Propylene glycol monpropyl ether)	30136-13-1	12.5	35	250	1,250	PAC-3/105, PAC-3/35, PAC-3/5, rat oral LD50
2541	Propyl acetate, n-	109-60-4	750	1,000	4,000	6,000	PEL-TWA, TLV-STEL, human TClo, IDLH.
2542	Propyl alcohol, n-; (n-Propanol)	71-23-8	500	600	600	2,000	PEL-TWA, REL-STEL, rat oral TDlo, IDLH.
2543	**Propyl chloroformate; (Propyl chlorocarbonate)**	**109-61-5**	3.5	10	**18.5**	**55.1**	AEGL-2/5, AEGL-2*3/5, **AEGL-2, AEGL-3.**
2544	Propyl nitrate	627-13-4	100	150	400	2,000	PEL-TWA, TLV-STEL, PAC-3/5, IDLH.
2545	Propyl-1-butanamine, N-	20193-21-9	15	50	350	500	
2546	Propylbenzene, n-; (Isocumene)	103-65-1	150	400	3,000	15,000	
2547	Propylene carbonate, 1,2-	108-32-7	0.125	0.35	2.5	12.5	
2548	**Propylene glycol dinitrate**	**6423-43-4**	0.35	**1.15**	**6.79**	**88.3**	TLV-TWA, **AEGL-1, AEGL-2, AEGL-3**
2549	Propylene glycol monomethyl ether acetate; (1-Methoxypropyl-2-acetate)	108-65-6	250	750	1,250	3,500	WEEL-TWA, TEEL-0*3, TEEL-0*5, rat oral LD50.
2550	Propylene glycol monomethyl ether; (Ucar Triol HG-170)	107-98-2	350	500	1,000	2,500	
2551	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.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2552	Propylene glycol; (1,2-Propanediol)	57-55-6	10	10	10	500	
2553	**Propylene oxide; (Methyl ethylene oxide)**	**75-56-9**	4	**173**	**689**	**2,070**	TLV-TWA, **AEGL-1, AEGL-2, AEGL-3.**
2554	Propylene; (1-Propene)	115-07-1	750	2,500	4,000	35,000	TLV-TWA, mouse TClo, rat LC minimum.
2555	**Propyleneimine, 1,2-**	**75-55-8**	4	4	**28**	**53.7**	PEL-TWA, PEL-TWA, **AEGL-2, AEGL-3.**
2556	**Propyltrichlorosilane**	**141-57-1**	1.5	**4.35**	**53**	**239**	AEGL-1/3, **AEGL-1, AEGL-2, AEGL-3.**
2557	Prothoate; (Isopropyl diethyldithiophosphorylacetamide)	2275-18-5	0.35	1	1.7	7.5	
2558	Pump oil	64742-65-0	100	300	500	500	
2559	Pyrene	129-00-0	2.5	7.5	15	15	
2560	Pyridine	110-86-1	15	50	600	3,000	
2561	Pyridinecarboxaldehyde, 4-; (Isonicotinaldehyde)	872-85-5	12.5	40	250	500	Mouse oral LD lo.
2562	Pyridine-d5	7291-22-7	15	50	75	400	Pyridine PEL-TWA, rat oral LD50.
2563	Pyriminil; (Pyriminyl)	53558-25-1	1.25	3.5	6.2	20	
2564	Pyrogallic acid	87-66-1	0.75	2.5	15	25	Human oral LD lo, rat oral TDlo.
2565	Pyromellitic acid	89-05-4	1.25	3.5	25	125	
2566	Pyroxylin; (Cellulose tetranitrate)	9004-70-0	10	30	50	500	

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2567	Pyrrole; (Imidole)	109-97-7	0.1	0.3	2	10	Mouse sc LD50
2568	Pyrrolidine	123-75-1	5	15	100	500	
2569	Pyrrolidinone, 2-	616-45-5	3.5	10	60	150	
2570	Pyruvate kinase	9001-59-6	2.5	7.5	50	500	
2571	Quaternary ammonium compounds, benzyl-C12-C16-alkyldimethyl, chlorides	68424-85-1	1.5	5	35	150	
2572	Quinhydrone	106-34-3	0.3	0.75	6	30	
2573	Quinoline	91-22-5	0.005	3.5	25	150	WEEL-TWA, rat oral TDlo, rat oral LD50.
2574	Quinolinol, 8-	148-24-3	2.5	7.5	50	500	
2575	Resorcinol	108-46-3	40	75	75	75	
2576	Rexyn I-300; (Ethylene glycol dimethacrylate polymer with styrene, chloromethylated, trimethylamine-quanternized, hydroxide)	69011-49-0	10	30	50	250	PNOS default.
2577	Rhenium hexafluoride	10049-17-9	6.58	19.8	32.9	500	Fluoride PEL-TWA and IDLH, as F.
2578	Rhenium oxide; (Rhenium(VII) oxide)	1314-68-7	1.3	3.9	6.5	30	
2579	Rhodium	7440-16-6	0.1	3	5	100	
2580	Rhodium oxide (liquids); (Rhodium(IV) oxide)	12137-27-8a	0.0013	0.0393	0.5	2.6	
2581	Rhodium oxide (solids); (Rhodium((IV) oxide)	12137-27-8b	0.131	3.93	6.56	131	

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2582	Rhodium(III) hydroxide (liquids)	21656-02-0a	0.0015	0.045	0.6	2.99	
2583	Rhodium(III) hydroxide (solids)	21656-02-0b	0.15	4.49	7.5	150	
2584	Rhodium(III) oxide (solids)	12036-35-0	0.123	3.7	6.17	123	
2585	Riboflavine	83-88-5	7.5	25	150	500	Rat sc LD50.
2586	Ribonuclease T1	9026-12-4	10	30	50	250	
2587	Rosin core solder decomposition products; (Colophony Gum)	8050-09-7	0.1	0.3	40	40	Netherlands MAC, rat LC50.
2588	Rotenone	83-79-4	5	15	25	125	PEL-TWA, TEEL-O, TEEL-0, human oral LD lo.
2589	Rubber solvent; (Naphtha (petroleum) light aliphatic)	64742-89-8	400	400	750	4,000	PEL-TWA, PAC-2/7, PAC-3/5, IDLH.
2590	Rubidium	7440-17-7	5	15	100	500	
2591	Rubidium bromide	7789-39-1	10	30	50	250	
2592	Rubidium chloride	7791-11-9	0.015	0.05	0.35	500	
2593	Rubidium hydroxide	1310-82-3	2.5	7.5	50	250	
2594	Rubidium nitrate	13126-12-0	10	30	50	500	
2595	Ruthenium	7440-18-8	10	30	50	250	
2596	Ruthenium trichloride	10049-08-8	1.5	4	30	150	

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2597	Ruthenium(IV) oxide	12036-10-1	4	12.5	15	15	
2598	Safrol; (5-(2-Propenyl)-1,3-benzodioxole)	94-59-7	5	15	100	500	
2599	Salcomine; (bis(Salicylaldehyde)ethylenediimine cobalt(II))	14167-18-1	7.5	20	39	400	
2600	Salicylaldehyde	90-02-8	0.6	1.5	12.5	200	Pregnant rat subcutaneous TDlo, rat oral LD50.
2601	Salicylic acid	69-72-7	0.3	0.75	6	400	
2602	Salicylic acid, monoammonium salt	528-94-9	1.5	4	30	500	Human oral TDlo, rat parenteral LD lo.
2603	Salicylic acid, phenyl ester	118-55-8	4	12.5	75	500	Rat oral TDlo and LD50.
2604	Samarium	7440-19-9	10	30	50	250	PNOS default used.
2605	Samarium nitrate	10361-83-8	7.5	25	150	500	
2606	Samarium(ii) iodide solution	32248-43-4	7.5	25	150	500	Estimated rat oral LD50 based on HHR.
2607	Samarium(III) chloride hexahydrate	13465-55-9	12.5	40	250	500	Rat oral LD50.
2608	Samarium(III) oxide	12060-58-1	20	60	400	500	
2609	Saxitoxin	35523-89-8	0.	0.0001	0.0006	0.0035	Human uk LD lo
2610	Scandium	7440-20-2	10	30	50	250	PNOS default.
2611	Scandium oxide	12060-08-1	10	30	50	250	

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2612	Sec-butyllithium	598-30-1	1	3	20	100	Estimated rat 240 min LC50 based on HHR.
2613	Selenious acid	7783-00-8	0.327	0.98	1.6	1.6	
2614	Selenium	7782-49-2	0.2	0.6	1	1	
2615	Selenium dioxide	7446-08-4	0.281	0.843	1.4	1.4	
2616	**Selenium hexafluoride**	**7783-79-1**	0.418	**0.418**	**0.686**	**2.05**	AEGL-1, **AEGL-1, AEGL-2, AEGL-3.**
2617	Selenium monosulfide	7446-34-6	0.281	0.844	12.5	15	
2618	Selenium oxychloride	7791-23-3	0.42	1.26	4.41	4.41	
2619	Selenium sulfide; (Selenium(IV) disulfide (1:2))	7488-56-4	0.362	1.09	1.81	60	
2620	Semicarbazide hydrochloride	563-41-7	20	60	100	100	
2621	Sephacryl s-200, superfine	65546-95-4	10	30	50	250	PNOS default used.
2622	Sephacryl s-300	82785-74-8	10	30	50	250	PNOS default used.
2623	Sephadex G-25	9041-35-4	10	30	50	250	
2624	Sepharose cl-4b	61970-08-9	10	30	50	250	PNOS default used.
2625	**Silane; (Silicon tetrahydride)**	**7803-62-5**	6	**131**	**171**	**355**	TLV-TWA, **AEGL-1, AEGL-2, AEGL-3.**
2626	Silica amorphous hydrated	7631-86-9	6	18	125	500	PEL-TWA, TEEL-0*3, rat TClo, IDLH.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2627	Silica gel	63231-67-4	6	18	30	150	
2628	Silica gel dessicant	1343-98-2	6	18	30	100	PEL-TWA, TEEL-0*3, TEEL-0*5, PAC-2*5.
2629	Silica gel, amorphous synthetic	112926-00-8	6	18	100	500	REL-TWA, TEEL-0*5, rat TClo, TEEL-2*5.
2630	Silica, amorphous fume	69012-64-2	0.3	0.9	1.5	3.5	MAK-TWA, TEEL-O*3, TEEL-0*5, rat oral LD50 minimum.
2631	Silica, amorphous fumed	112945-52-5	6	18	200	500	
2632	Silica, crystalline-quartz; (Silicon dioxide)	14808-60-7	0.3	0.3	0.3	50	PEL-TWA, TEEL-0, TEEL-0, IDLH.
2633	Silicic acid	7699-41-4	10	10	75	400	
2634	Silicic acid, aluminum calcium sodium salt	1344-01-0	10	30	50	250	Al sol. Salts TLV-TWA.
2635	Silicic acid, sodium salt; (Sodium silicate)	1344-09-8	7.5	25	150	500	Rat oral LD50.
2636	Silicofluoric acid; (Fluorosilicic acid)	16961-83-4	3.16	9.48	15.8	50	
2637	Silicon	7440-21-3	15	45	75	500	PEL-TWA, TEEL-0*3, TEEL-0*5, rat oral LD50.
2638	Silicon carbide	409-21-2	15	30	250	500	
2639	Silicon nitride	12033-89-5	10	30	50	250	PNOS default.
2640	**Silicon tetrafluoride; (Tetrafluorosilane)**	**7783-61-1**	0.213	**0.213**	**14**	**42.5**	AEGL-1, **AEGL-1, AEGL-2, AEGL-3.**
2641	Silicon(II) oxide; (Silicon oxide)	10097-28-6	10	30	50	250	

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2642	Siloprene k 1000	63394-02-5	35	100	500	500	Rat implant TDlo, rat oral LD50 maximum.
2643	Siloxanes and silicones, -di-Me,-reaction products with silica; (Hydrophobic silicon dioxide, amorphous)	67762-90-7	6	15	125	500	Rat TClo.
2644	Siloxanes and silicones, methyl phenyl; (Silicone fluid, high temp)	63148-58-3	10	10	50	250	Rat 240 min LC50.
2645	Silver	7440-22-4	0.01	0.3	0.5	10	Concentration limits.
2646	Silver carbonate; (Silver(I) carbonate)	534-16-7	0.0128	0.0383	0.0639	12.8	Silver concentration limits.
2647	Silver chloride	7783-90-6	0.0133	0.0399	0.0664	13.3	Silver concentration limits.
2648	Silver cyanide	506-64-9	25.7	25.7	25.7	129	Cyanide concentration limits.
2649	Silver hydroxide	12673-77-7	0.0116	0.0347	0.06	11.6	Silver concentration limits.
2650	Silver nitrate	7761-88-8	0.0157	0.4	3	15.7	PEL-TWA, PAC=2/7, rat intratracheal TDlo, IDLH
2651	Silver nitrite; (Silver(I) nitrite)	7783-99-5	0.0143	0.0428	0.075	14.3	Silver concentration limits.
2652	Silver oxide	20667-12-3	10	30	50	50	PNOS gefault.
2653	Soda lime	8006-28-8	5	5	5	25	Calcium oxide concentration limits.
2654	Sodium	7440-23-5	0.5	0.5	5	50	PAC-1, ERPG-1, ERPG-2, ERPG-3.
2655	Sodium acetate	127-09-3	15	40	300	500	
2656	Sodium acetate trihydrate; (Acetic acid, sodium salt trihydrate)	6131-90-4	15	40	300	500	

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2657	Sodium aluminate anhydrous; (Aluminum sodium dioxide anhydrous)	11138-49-1	8.75	8.75	8.75	8.75	Al soluble salts concentration limits.
2658	Sodium aluminate; (Aluminum sodium dioxide)	1302-42-7	6.08	6.08	6.08	6.08	Al soluble salts concentration limits.
2659	Sodium aluminosilicate	1344-00-9	3.5	10	150	500	**SAR**
2660	Sodium aluminum hydride	13770-96-2	3	7.5	60	300	Mouse oral LD50.
2661	Sodium aluminum silicate	73987-94-7	3.5	10	15	500	**SAR**
2662	Sodium antimonate; (Antimonic acid, sodium salt)	11112-10-0	1.01	3.04	5.07	101	
2663	Sodium antimonate; (Sodium hexahydroxoantimonate)	33908-66-6	0.792	2.37	4	79.2	
2664	Sodium antimonite	z-0061	0.874	2.62	4.37	87.4	
2665	Sodium argentate	z-0062	0.0153	0.0459	0.0764	15.3	
2666	Sodium arsenate	7631-89-2	0.0271	7.5	13.5	13.5	
2667	Sodium arsenite	7784-46-5	0.0173	0.075	0.6	8.67	
2668	Sodium azide	26628-22-8	0.0125	0.04	0.29	12.5	
2669	Sodium beryllium oxide	z-0063	0.0124	0.0621	5	24.9	
2670	Sodium bicarbonate	144-55-8	10	30	50	500	
2671	Sodium bifluoride; (Sodium hydrogen fluoride)	1333-83-1	4.08	4.08	6	35	

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2672	Sodium bis(2-methoxyethoxy) aluminum hydride	22722-98-1	15	45	75	350	Al soluble salts TLV-TWA.
2673	Sodium bismuthate	12232-99-4	1.5	5	35	150	
2674	Sodium bisulfate monohydrate	10034-88-5	0.75	2.5	15	75	
2675	Sodium bisulfate; (Sodium acid sulfate)	7681-38-1	1.25	3.5	25	125	
2676	Sodium bisulfite	7631-90-5	5	15	25	500	
2677	Sodium borate decahydrate	1303-96-4	2	6	200	500	TLV-TWA, TLV-STEL, rat oral TDlo, human oral LD lo.
2678	Sodium borate; (Disodium tetraborate; Borates, tetrasodium salts)	1330-43-4	2	6	6	500	TLV-TWA, TLV-STEL, rat oral TDlo, rat oral LD50..
2679	Sodium borohydride	16940-66-2	0.075	0.2	1.5	7.5	
2680	Sodium bromate	7789-38-0	0.6	1.5	12.5	60	
2681	Sodium bromide	7647-15-6	1.5	5	35	500	
2682	Sodium butyl (2-ethylhexyl)phosphate	z-0064	0.02	0.06	0.4	2	**SAR**
2683	Sodium butyl butylphosphonate	z-0065	0.02	0.06	0.4	2	**SAR**
2684	Sodium cacodylate; (Sodium dimethylarsinate)	124-65-2	1.07	3.2	40	500	
2685	Sodium cadminate	z-0066	0.0101	0.0604	0.101	18.1	
2686	Sodium carbonate	497-19-8	10	30	50	500	

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2687	Sodium carbonate monohydrate	5968-11-6	1.5	5	35	150	
2688	Sodium carboxymethyl cellulose; (Dowex 11)	9004-32-4	0.4	1.25	7.5	500	
2689	Sodium chloride	7647-14-5	15	40	300	500	
2690	Sodium chlorite	7758-19-2	0.75	2.5	15	75	
2691	Sodium chromate decahydrate	13517-17-4	0.0329	0.987	20	98.7	Cr VI concentration limits.
2692	Sodium chromate tetrahydrate	10034-82-9	0.0291	0.873	15	87.4	Cr VI concentration limits.
2693	Sodium chromate(VI); (Disodium chromate)	7775-11-3	0.0156	0.125	0.75	46.7	Cr VI concentration limits.
2694	Sodium citrate; (Monosodium citrate)	18996-35-5	10	30	50	500	
2695	Sodium cobaltinitrite	13600-98-1	0.125	0.4	3	15	
2696	Sodium cyanide	143-33-9	5	5	5	47.1	
2697	Sodium cyclopentadienylide; (Cyclopentadienyl sodium)	4984-82-1	10	30	50	250	PNOS default.
2698	Sodium deuteroxide	14014-06-3	0.15	0.5	5	50	Used NaOH ERPG values.
2699	Sodium dichromate dihydrate	7789-12-0	0.0143	0.43	0.716	43	Cr VI concentration limits.
2700	Sodium dichromate; (Disodium dichromate)	10588-01-9	0.0126	20	37.8	37.8	Cr VI concentration limits.
2701	Sodium diethyldithiocarbamate trihydrate	20624-25-3	6	15	125	500	Rat oral LD50.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2702	Sodium diethyldithiocarbamate; (Diethyldithiocarbamic acid, sodium salt)	148-18-5	2	6	250	500	
2703	Sodium dihydrogen phosphate; (Sodium phosphate monobasic, monohydrate)	10049-21-5	100	300	500	500	
2704	Sodium dithionate dihydrate	7631-94-9	10	30	50	250	
2705	Sodium dodecylbenzenesulfonate; (Dodecyl benzene sodium sulfonate)	25155-30-0	4	12.5	75	200	
2706	Sodium ethoxide	141-52-6	1.5	5	35	150	Rat pral LD50 based on HHR = 3.
2707	Sodium ferrocyanide	13601-19-9	5.44	16.3	27.2	500	
2708	Sodium fluoride	7681-49-4	5.53	5.53	5.53	75	
2709	Sodium formate	141-53-7	40	125	500	500	
2710	Sodium gluconate	527-07-1	0.6	2	15	75	
2711	Sodium glycinate	6000-44-8	4	12.5	100	500	
2712	Sodium glycolate; (Sodium hydroxyacetate)	2836-32-0	40	125	750	3,000	
2713	Sodium hexamethyldisilazane; (Sodium bis(trimethylsilyl)amide)	1070-89-9	10	30	50	250	PNOS default
2714	Sodium hydride	7646-69-7	10	10	10	10	
2715	Sodium hydrogen lead oxide	z-0067	0.06	0.06	0.06	125	**SAR**
2716	Sodium hydrogen metasilicate	z-0068	4	12.5	75	400	**SAR**

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2717	Sodium hydrogen pyrophosphate	z-0069	4	12.5	20	400	**SAR**
2718	Sodium hydrosulfite	7775-14-6	10	30	50	250	
2719	**Sodium hydroxide**	**1310-73-2**	0.5	**0.5**	**5**	**50**	ERPG-1, **ERPG-1, ERPG-2, ERPG-3.**
2720	Sodium hypobromite	13824-96-9	10	30	50	250	PNOS default used.
2721	Sodium hypochlorite	7681-52-9	0.6	2	50	500	WEEL-STEL, human iv TDlo, mouse oral LD50.
2722	Sodium hypochlorite pentahydrate	10022-70-5	0.075	0.2	1.5	500	
2723	Sodium hypophosphite	7681-53-0	6	20	125	500	Mouse ip LD50.
2724	Sodium hypophosphite hydrate	123333-67-5	6	20	125	500	Mouse intraperitoneal LD50.
2725	Sodium iodate	7681-55-2	2	6	40	200	Mouse oral LD50.
2726	Sodium iodide	7681-82-5	0.75	2.5	15	500	
2727	Sodium isothiocyanate; (Thiocyanic acid, sodium salt)	540-72-7	0.25	0.75	6	100	
2728	Sodium lactate; (Lactic acid, monosodium salt)	72-17-3	15	40	300	500	Rat ip TDlo and LD50.
2729	Sodium lanthanate	z-0070	0.4	1.25	2.5	2.5	
2730	Sodium lauryl sulfate	151-21-3	0.35	1	6	500	
2731	Sodium metabisulfite	7681-57-4	5	15	25	100	

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2732	Sodium metaborate	7775-19-1	6.18	18.5	30.9	500	Inorganic borate compound TLV-TWA, TLV-STEL, rat oral LD50
2733	Sodium metaphosphate	10361-03-2	3.5	10	75	350	
2734	Sodium metasilicate nonahydrate	13517-24-3	61.1	183	306	500	Used REL-TWA for silicates, rat oral LD50.
2735	Sodium metavanadate; (Sodium vanadate)	13718-26-8	0.1	0.35	2	30	
2736	Sodium methylate	124-41-4	7.5	25	150	500	
2737	Sodium molybdate dihydrate; (Disodium molybdate dihydrate)	10102-40-6	12.6	12.6	200	200	
2738	Sodium monoxide; (Sodium oxide)	12401-86-4	10	10	10	10	
2739	Sodium nickel oxide (Liquid)	37367-09-2	2.33	2.33	2.33	23.3	Nickel soluble concentration limits.
2740	Sodium nickelate (Liquids)	z-0073	2.94	2.94	3	29.4	Nickel soluble concentration limits.
2741	Sodium nickelate (Solids)	z-0074	2.94	2.94	3	29.4	Nickel insoluble concentration limits.
2742	Sodium nitrate	7631-99-4	0.4	1	7.5	100	
2743	Sodium nitrite	7632-00-0	0.05	0.15	1	60	
2744	Sodium nitroferricyanide	14402-89-2	0.6	2	12.5	20	Woman iv TDlo, human inh 3 hour LD lo.
2745	Sodium o-benzyl-p-chlorophenate	3184-65-4	10	30	50	250	
2746	Sodium orthovanadate	13721-39-6	0.182	0.25	1.82	35.4	

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2747	Sodium oxalate	62-76-0	10	30	50	50	
2748	Sodium oxide; (Disodium oxide; Sodium monoxide)	1313-59-3	0.25	0.25	2.5	25	Based on sodium hydroxide PACs.
2749	Sodium pentachlorophenate	131-52-2	1	3.5	24	75	
2750	Sodium perchlorate	7601-89-0	10	30	50	500	
2751	Sodium perchlorate monohydrate	7791-07-3	5	15	100	500	
2752	Sodium permanganate	10101-50-5	0.517	7.75	12.9	500	TLV-TWA, REL-STEL, PEL-C, IDLH., as Mn.
2753	Sodium peroxide	1313-60-6	10	10	10	10	
2754	Sodium perrhenate; (Rhenium(VII) sodium oxide)	13472-33-8	10	30	50	500	
2755	Sodium persulfate	7775-27-1	0.1	0.3	20	100	
2756	Sodium pertechnetate	13718-28-0	10	30	50	250	
2757	Sodium phosphate	7632-05-5	0.75	2.5	15	75	
2758	Sodium phosphate, dibasic	7558-79-4	60	200	500	500	
2759	Sodium phosphate, dibasic, dodecahydrate	10039-32-4	1.5	5	35	150	
2760	Sodium phosphate, dibasic, heptahydrate	7782-85-6	50	150	500	500	
2761	Sodium phosphate, monobasic	7558-80-7	35	100	500	500	

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2762	Sodium phosphate, tribasic	7601-54-9	1.5	5	500	500	WEEL-STEL, rabbit intravenous LD lo..
2763	Sodium phosphate, tribasic, dodecahydrate	10101-89-0	10	30	50	500	
2764	Sodium phosphate, tribasic; (Sodium hexametaphosphate; Calgon)	10124-56-8	25	75	500	500	
2765	Sodium phosphate, tribasic; (Sodium trimetaphosphate)	7785-84-4	15	40	300	500	
2766	**Sodium phosphide**	**12058-85-4**	1.5	5	**8.17**	**14.7**	AEGL-2/5, AEGL-2*3/5, **AEGL-2, AEGL-3.**
2767	Sodium polyphosphate	68915-31-1	12.5	40	250	500	Rat oral LD50.
2768	Sodium polytungstate	12141-67-2	6.77	13.5	35	150	Tungsten insoluble TLV-TWA, TLV-STEL.
2769	Sodium potassium tartrate tetrahydrate	6381-59-5	20	60	400	500	
2770	Sodium potassium tartrate; (Potassium sodium tartrate)	304-59-6	20	60	400	500	Mouse iv TDlo.
2771	Sodium p-tert-amylphenate; (4-(1,1-dimethylpropyl)phenol, sodium salt)	31366-95-7	10	30	50	250	
2772	Sodium pyrophosphate decahydrate	13472-36-1	10	30	200	500	Estimated mouse LD50.
2773	Sodium pyrophosphate, di-	7758-16-9	10	30	200	500	
2774	Sodium pyruvate; (Pyruvic acid, sodium salt)	113-24-6	10	30	50	250	PNOS default used.
2775	Sodium salicylate; (Salicylic acid, sodium salt)	54-21-7	40	100	500	500	Women TDlo, human LD lo.
2776	Sodium selenate; (Disodium selenate)	13410-01-0	0.479	1.44	1.6	1.6	

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2777	Sodium selenite	10102-18-8	0.438	1.31	2.3	3	
2778	Sodium silicate; (Sodium metasilicate)	6834-92-0	75	200	500	500	Human oral TDlo, rat oral LD50.
2779	Sodium stannate	12058-66-1	3.58	10.8	17.9	179	Tin inorganic concentration limits.
2780	Sodium stearate	822-16-2	0.15	0.5	3.5	15	
2781	Sodium strontium phosphate	19553-80-1	10	30	50	500	**SAR**
2782	Sodium succinate	150-90-3	35	100	750	4,000	
2783	Sodium succinate, hexahydrate	6106-21-4	35	100	500	500	Used sodium succinate mouse iv LD50.
2784	Sodium sulfate, anhydrous	7757-82-6	10	30	500	500	
2785	Sodium sulfhydrate; (Sodium hydrosulfide)	16721-80-5	0.06	0.15	1.25	6	
2786	Sodium sulfide	1313-82-2	0.75	2.5	15	75	
2787	Sodium sulfide nonahydrate	1313-84-4	0.2	0.6	4	20	Mouse intraperitoneal LD50.
2788	Sodium sulfite	7757-83-7	10	30	50	100	
2789	Sodium tartrate dihydrate	6106-24-7	5	15	100	500	Rat oral LD50.
2790	Sodium tellurate	10101-83-4	0.186	0.559	0.931	150	
2791	Sodium tellurite	10102-20-2	0.174	0.521	7.5	25	

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2792	Sodium tetrafluoroborate(1-)	13755-29-8	3.61	10.8	18.1	100	Fluoride concentration limits, rat sc LD50.
2793	Sodium tetraphenyl borate	143-66-8	1.25	3.5	25	125	
2794	Sodium thiosulfate	7772-98-7	10	30	50	500	
2795	Sodium thiosulfate pentahydrate	10102-17-7	10	30	50	500	
2796	Sodium titanate	12034-34-3	10	30	50	250	PNOS default used.
2797	Sodium tolyltriazole; (1H-benzzotriazole, 4(or 5)-methyl-, sodium salt)	64665-57-2	2.5	7.5	50	250	Rat LD50 minimum.
2798	Sodium tridecylbenzene sulfonate	26248-24-8	2	6	40	200	Human minimum LD = 500 mg/kg.
2799	Sodium triethylborohydride	17979-81-6	22.6	67.7	113	150	Borate TLV-TWA, -STEL rat oral LD50 based on HHR.
2800	Sodium trihydrogen silicate	z-0076	10	30	50	250	
2801	Sodium tripolyphosphate	7758-29-4	10	30	50	500	
2802	Sodium tungstate	13472-45-2	1	3	7.5	500	
2803	Sodium tungstate dihydrate	10213-10-2	1.79	5.38	15	75	TLV-TWA, TLV-STEL, rat ip LD50.
2804	Sodium uranate; (Disodium uranate hexahydrate)	66018-57-3	0.0779	0.935	3	15.6	Uranium compound concentration limits.
2805	Sodium uranium oxide monohydrate	13721-34-1	0.0685	0.822	2.5	13.7	Uranium compound concentration limits.
2806	Sodium uranyl carbonate	z-0078	0.395	0.948	3	15.8	Uranium compound concentration limits.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2807	Sodium zirconate; (Disodium zirconium oxide)	12201-48-8	10.9	21.8	21.8	54.6	Zr concentration limits.
2808	Sodium-Potassium	11135-81-2	0.482	0.482	5	50	Sodium hydroxide concentration limits.
2809	Solvent naphtha, petroleum, medium aliphatic; (Mineral spirits, naphtha)	64742-88-7	25	75	500	500	PAC-2/21, PAC-2*7, rat TClo, PAC-2*5.
2810	Solvent Yellow 3	97-56-3	2	6	40	500	
2811	**Soman; (3,3-Dimethyl-2-butyl methylphosphonofluoridate; GD)**	**96-64-0**	0.0002	**0.0013**	**0.0164**	**0.127**	MSDS-TWA, **AEGL-1, AEGL-2, AEGL-3**
2812	Sorbitan monolaurate; (D-Glucitol, 1,4-anhydro-, 6-dodecanoate)	5959-89-7	10	30	50	250	PNOS default used.
2813	Sorbitan monostearate polyoxyethylene; (Ethoxylated sorbitan monostearate)	9005-67-8	0.75	2	15	500	Rat 7 week TDlo, rat iv LD50
2814	Sorbitan trioleate	26266-58-0	15	50	350	500	Rat iv TDlo.
2815	Sorbitan, monolaurate	1338-39-2	350	500	500	500	Rat oral 14 day TDlo, rat oral LD50.
2816	Sorbitan, monooleate	1338-43-8	250	500	500	500	Rat oral TDlo
2817	Sorbitan, monooleate polyoxyethylene; (Polyethylene sorbitan monooleate; Tween 80)	9005-65-6	0.75	2.5	15	500	Rat oral TDlo, mouse oral LD50
2818	Sorbitan, monostearate	1338-41-6	400	500	500	500	Rat oral repro TDlo, rat LD50.
2819	Sorbitol, D-; (D-Glucitol)	50-70-4	40	125	500	500	
2820	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 TDlo, mouse iv LD50.
2821	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.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2822	Stannic chloride; (Tin(IV) chloride; Tin(IV) tetrachloride)	7646-78-8	4.39	4.39	5	219	
2823	Stannous chloride; (Tin(II) chloride (1:2))	7772-99-8	3.19	9.58	50	160	PEL-TWA, TLV-TWA*3, rat TClo, IDLH.
2824	Stannous octoate	301-10-0	0.341	1.023	15	85.3	Organic tin compound concentration limits.
2825	Starch dust	9005-25-8	15	30	500	500	PEL-TWA, rat oral TDlo, mouse ip LD50.
2826	**Stibine; (Antimony hydride)**	**7803-52-3**	0.5	1	**7.65**	**49**	PEL-TWA, AEGL-2/7, **AEGL-2, AEGL-3.**
2827	Stilbene	588-59-0	5	15	100	500	Mouse ip LD50.
2828	Stilbene 3; (Stilbene 420; Tinopal CBS; Disodium 4,4'-bis(2-sulfostyryl)biphenyl)	27344-41-8	0.25	0.75	6	500	
2829	Stoddard solvent; (Mineral spirits, 85% nonane and 15% trimethyl benzene)	8052-41-3	500	500	500	500	
2830	Strontium	7440-24-6	10	30	50	250	
2831	Strontium carbonate	1633-05-2	20	20	20	20	**SAR**
2832	Strontium chloride	10476-85-4	7.5	20	150	500	Rat oral TDlo, rat oral LD50.
2833	Strontium hydroxide	18480-07-4	0.75	0.75	20	75	**SAR**
2834	Strontium nitrate	10042-76-9	10	30	250	500	
2835	Strontium nitrite; (Nitrous acid, strontium salt)	13470-06-9	0.04	0.1	0.75	75	**SAR**
2836	Strontium oxalate	814-95-9	7.5	25	60	75	**SAR**

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2837	Strontium phosphate; (Strontium orthophosphate)	14414-90-5	10	30	500	500	SAR
2838	**Strontium phosphide**	**12504-13-1**	1	3	**4.85**	**8.72**	AEGL-2/5, AEGL-2*3/5, **AEGL-2, AEGL-3.**
2839	Strontium sulfate	7759-02-6	10	30	50	250	
2840	Strychnine	57-24-9	0.15	0.3	0.3	3	
2841	Strychnine sulfate (2:1)	60-41-3	1	3	5	30	
2842	**Styrene**	**100-42-5**	85.1	**85.1**	**553**	**4,680**	AEGL-1, **AEGL-1, AEGL-2, AEGL-3.**
2843	Styrene oxide; (1,2-Epoxyethylbenzene)	96-09-3	20	60	250	250	
2844	Styrene-allyl alcohol copolymer	25119-62-4	10	30	50	250	PNOS default,
2845	Styrene-divinylbenzene resin, chloromethylated, aminated with trimethylamine; (Bio-Rad AG1-X8 anion exchange resin, formate form)	60177-39-1	10	30	50	250	Used PNOS default.
2846	Styrenesulfonate), poly(sodium 4-	25704-18-1	150	500	500	500	Pregnant rai oral TDlo, rat oral LD50 minimum.
2847	Succinic acid	110-15-6	7.5	25	200	500	
2848	Succinic anhydride	108-30-5	0.75	2	15	500	
2849	Sucrose	57-50-1	15	30	50	500	Concentration limits, rat oral LD50
2850	Sucrose, diacetate hexaisobutyrate; (Sucrose acetate isobutyrate; SAIB)	126-13-6	12.5	40	300	500	Dog oral TDlo, rat oral LD lo.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2851	Sulfamic acid	5329-14-6	12.5	40	250	500	
2852	Sulfanilamide	63-74-1	1	3	20	500	
2853	Sulfanilic acid	121-57-3	50	150	500	500	Rat oral LD50.
2854	Sulfonic acids, petroleum; (Petrolatum acid sulfonate)	61789-85-3	10	30	50	250	
2855	Sulfonylbis-ethanol, 2,2'-	2580-77-0	1.5	5	35	150	Estimated HHR = 3 and rat oral LD50.
2856	Sulfosalicylic acid	97-05-2	10	30	200	500	
2857	Sulfosalicylic acid, dihydrate, crystal	5965-83-3	7.5	20	150	500	Rat oral LD50.
2858	Sulfotep; (TEDP)	3689-24-5	0.2	0.5	3.5	10	
2859	Sulfur	7704-34-9	0.125	0.4	2.5	12.5	
2860	**Sulfur dioxide**	**7446-09-5**	0.524	**0.524**	**1.96**	**78.5**	AEGL-1, **AEGL-1, AEGL-2, AEGL-3.**
2861	Sulfur hexafluoride	2551-62-4	6,000	15,000	30,000	30,000	Concentration limits, mam LC lo
2862	**Sulfur monochloride**	**10025-67-9**	2.92	**2.92**	**35.3**	**82.8**	AEGL-1, **AEGL-1, AEGL-2, AEGL-3.**
2863	Sulfur pentafluoride	5714-22-7	0.1	0.1	0.1	10	
2864	Sulfur tetrafluoride	7783-60-0	0.35	1	7.5	7.5	
2865	**Sulfur trioxide**	**7446-11-9**	0.06	**0.20**	**8.7**	**160**	AEGL-1/3, **AEGL-1, AEGL-2, AEGL-3.**

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2866	**Sulfuric acid**	**7664-93-9**	0.2	**0.20**	**8.7**	**160**	AEGL-1, **AEGL-1, AEGL-2, AEGL-3.**
2867	Sulfuric Acid-d2; (Deuterosulfuric acid)	13813-19-9	1	1	3	15	Used sulfuric acid concentration limits PEL-TWA, IDLH.
2868	Sulfurous acid	7782-99-2	0.0125	0.04	0.3	1.5	
2869	**Sulfuryl chloride**	**7791-25-5**	1	3	**20.4**	**60.7**	AEGL-2/21, AEGL-2/7, **AEGL-2, AEGL-3.**
2870	**Sulfuryl fluoride**	**2699-79-8**	20	40	**87.6**	**267**	PEL-TWA, TLV-STEL, **AEGL-2, AEGL-3.**
2871	Talc	14807-96-6	2	2	10	500	
2872	Tall oil (alkyd resin)	68333-62-0	10	30	50	250	
2873	Tantalum	7440-25-7	5	10	500	500	
2874	Tantalum carbide	12070-06-3	5.33	10.7	500	500	Tantalum and oxide dust concentration limits used.
2875	Tantalum(V) ethoxide	6074-84-6	10	30	50	250	PNOS default.
2876	Tantalum(V) fluoride	7783-71-3	7.26	21.8	36.3	100	
2877	Tantalum(V) oxide	1314-61-0	6.11	12.2	500	500	
2878	Tartaric acid	87-69-4	4	12.5	75	400	
2879	Tartaric acid, monopotassium salt	868-14-4	150	500	500	500	Rat oral LD50.
2880	Tartaric acid, monosodium salt	526-94-3	15	50	400	500	Mouse oral LD50.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2881	Technetium(IV) oxide	12036-16-7	10	30	50	250	
2882	Technetium-99	14133-76-7					Radiation dose will dominate. No TEELs.
2883	Tellurium	13494-80-9	0.1	0.3	20	25	
2884	Tellurium chloride	10026-07-0	0.211	0.633	15	52.8	
2885	Tellurium hexafluoride	7783-80-4	0.35	1	1	15	
2886	Tellurium oxide; (Tellurium dioxide)	7446-07-3	0.125	0.375	5	31.3	
2887	Tellurous acid	10049-23-7	0.139	0.418	0.696	34.8	
2888	Terbium	7440-27-9	1.5	5	35	150	Rat oral LD50 based on HHR = 3.
2889	Terbium oxide	12036-41-8	10	30	50	250	
2890	Terbium(III,IV) oxide	12037-01-3	10	30	50	250	PNOS default.
2891	Terbufos	13071-79-9	0.01	0.03	1	1	TLV-TWA, TEEL-0*3, LOC, rat oral LD50.
2892	Terephthalic acid	100-21-0	10	125	500	500	
2893	Terephthaloyl chloride	100-20-9	0.75	2.5	20	500	
2894	Terphenyl; p-	92-94-4	0.4	1.25	9	500	
2895	Terphenyls; (Diphenylbenzene)	26140-60-3	1.5	5	9	500	

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2896	Tert-butyl alcohol; (tert-Butanol)	75-65-0	300	400	5,000	5,000	
2897	Tert-butyl benzoic acid, p-	98-73-7	2	6	50	200	Rat 360 min TClo, rat oral LD50.
2898	Tert-butyllithium	594-19-4	1.5	5	35	150	Rat LD50 estimated from HHR = 3.
2899	Tert-butylphenol, p-; (Tert-butylphenol, 4-)	98-54-4	0.5	0.5	0.75	500	MAK-TWA, mouse TClo, rat LC lo.
2900	Tert-butylpyridine, 4-	3978-81-2	10	30	50	250	PNOS default used.
2901	Tetraamminepalladium(II) nitrate	13601-08-6	1.5	5	35	150	
2902	Tetrabromoethane, 1,1,2,2-; (Acetylene tetrabromide)	79-27-6	1.25	75	100	100	TLV-TWA, mouse TClo, IDLH.
2903	Tetrabutyl ammonium phosphate	5574-97-0	10	30	50	250	Used PNOS default
2904	Tetrabutyl titanate; (Butyl titanate)	5593-70-4	12.5	40	250	1,250	
2905	Tetrabutylammonium fluoride; (N,N,N-Tributyl-1-butanaminium, fluoride)	429-41-4	34.4	103	172	500	Fluoride concentration limits.
2906	Tetrabutylammonium hydroxide	2052-49-5	0.06	0.15	1.25	6	
2907	Tetrabutylammonium nitrate	1941-27-1	0.075	0.25	1.5	7.5	
2908	Tetrachloro-1,2-difluoroethane, 1,1,2,2-	76-12-0	4,000	4,000	15,000	15,000	PEL-TWA, TEEL-0, IDLH, IDLH.
2909	Tetrachlorobenzene, 1,2,3,4-	634-66-2	12.5	35	250	500	
2910	Tetrachlorobenzene, 1,2,4,5-	95-94-3	10	30	50	500	

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2911	Tetrachlorodibenzofuran, 2,3,7,8-	51207-31-9	0.0006	0.002	0.002	0.002	
2912	Tetrachlorodibenzo-p-dioxin, 1,2,3,8-	53555-02-5	0.004	0.0125	0.075	0.4	
2913	Tetrachloroethane (mixed isomers)	25322-20-7	10	35	200	3,000	
2914	Tetrachloroethane, 1,1,1,2-	630-20-6	20	60	400	1,500	
2915	Tetrachloroethane, 1,1,2,2-	79-34-5	35	35	35	600	
2916	Tetrachlorohexafluorobutane, 2,2,3,3-; (FLON; CFC316)	375-34-8	2.5	7.5	50	250	
2917	**Tetrachlorosilane; (Silicon chloride)**	**10026-04-7**	1	**3.12**	**38.2**	**174**	AEGL-1/3, **AEGL-1, AEGL-2, AEGL-3.**
2918	Tetracosafluorotetradecahydro-phenanthrene; (Perfluorophenanthrene)	306-91-2	3.42	10.3	17.1	75	Fluoride concentration limits.
2919	Tetracyanoquinodimethane	1518-16-7	0.4	1.25	10	50	
2920	Tetracycline hydrochloride	64-75-5	0.75	2.5	15	500	
2921	Tetradecafluorohexane; (Perfluoro-n-hexane; Fluorinert FC72)	355-42-0	2,500	7,500	60,000	350,000	Rat TClo, rat LC lo minimum.
2922	Tetradecane; (N-tetradecane)	629-59-4	0.125	0.4	2.5	10,000	PAC-2/21, PAC-2/7, mouse sk TDlo, mouse iv LD lo.
2923	Tetradecanoic acid; (Myristic acid)	544-63-8	0.35	1	7.5	35	
2924	Tetradecyltrimethylammonium bromide	1119-97-7	15	50	350	500	Rat oral LD50.
2925	Tetraethyl lead	78-00-2	0.117	0.468	0.781	62.4	

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Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2926	**Tetraethyl orthosilicate; (Ethyl silicate; Tetraethoxysilane)**	**78-10-4**	213	**213**	**850**	**2,550**	ERPG-1, **ERPG-1, ERPG-2, ERPG-3.**
2927	Tetraethyl pyrophosphate; (TEPP)	107-49-3	0.05	0.15	1	5	PEL-TWA, LOC, IDLH.
2928	Tetraethylammonium chloride	56-34-8	0.25	0.75	6	500	Human iv TDlo, rat LD50.
2929	Tetraethylene glycol	112-60-7	125	350	500	500	
2930	Tetraethylene glycol diacrylate	17831-71-9	1	3.5	25	350	WEEL-TWA, rabbit sk TDlo, rat oral LD50.
2931	Tetraethylenepentamine	112-57-2	5	15	350	500	WEEL-TWA, rat oral LD50.
2932	Tetraethyltin; (Tetraethylstannane)	597-64-8	0.198	0.396	7	49.5	
2933	**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**
2934	Tetrafluoroethane, 1,1,2,2-; (HFC 134)	359-35-3	3.5	10	15	350	Fluoride concentration limits.
2935	**Tetrafluoroethylene**	**116-14-3**	7.5	**899**	**2,250**	**13,500**	TLV-TWA, **AEGL-1, AEGL-2, AEGL-3.**
2936	Tetrafluorohydrazine	10036-47-2	3.5	10	75	400	
2937	Tetrahydro-2,5-dimethyl furan	1003-38-9	15	50	350	500	
2938	**Tetrahydrofuran**	**109-99-9**	150	**295**	**1,470**	**14,700**	TLV-TWA, **ERPG-1, ERPG-2, ERPG-3.**
2939	Tetrahydrofuran-d8	1693-74-9	300	300	1,500	15,000	Used tetrahydrofuran (109-99-9) limits.
2940	Tetrahydronaphthalene, 1,2,3,4-; (Tetralin)	119-64-2	1.25	3.5	25	100	Human TClo, guinea pig LC50.

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Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2941	Tetrahydropyridine, 1,2,3,6-	694-05-3	10	30	50	250	PNOS default.
2942	Tetramethoxypropane, 1,1,3,3-; (Malonaldehyde bis(dimethyl acetal))	102-52-3	7.5	25	150	500	Estimated rat oral LD50.
2943	**Tetramethoxysilane; (Methyl silicate)**	**681-84-5**	5.66	5.66	**5.66**	**8.71**	AEGL-2, AEGL-2, **AEGL-2, AEGL-3.**
2944	Tetramethyl ammonium, tetrahydroborate(1-)	16883-45-7	0.3	1	6	35	Rat oral LD50.
2945	Tetramethyl ethylene diamine	110-18-9	50	150	600	600	
2946	Tetramethyl lead	75-74-1	0.0968	0.581	4	51.6	
2947	Tetramethyl-1,3-butanediamine, N,N,N',N'-; (Tetramethyl butanediamine)	97-84-7	2	6	40	200	
2948	Tetramethyl-3,5-heptanedione, 2,2,6,6-; (Dipivaloylmethane)	1118-71-4	10	30	50	250	PNOS default used.
2949	Tetramethyl-5-decyne-4,7-diol, 2,4,7,9-	126-86-3	10	30	50	250	
2950	Tetramethylammonium chloride	75-57-0	0.2	0.6	4	20	Rat oral LD50.
2951	Tetramethylammonium hydroxide	75-59-2	0.06	0.15	1.25	6	
2952	Tetramethylammonium hydroxide pentahydrate	10424-65-4	0.3	0.75	6	6	Rat skin TDlo, mouse sc LD lo.
2953	Tetramethylammonium silicate	53116-81-7	10	30	50	250	PNOS default used.
2954	Tetramethylbenzene, 1,2,3,5-	527-53-7	0.15	0.5	3.5	500	Rat skin TDlo, rat oral LD50.
2955	Tetramethylbenzene, 1,2,4,5-	95-93-2	30	100	500	500	Rat 24 hour TClo, rat LD50.

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Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2956	Tetramethylbenzidine, 3,3',5,5'-	54827-17-7	0.5	1.5	10	60	Mouse ip LD50
2957	Tetramethylene sulfone; (Sulfolane; Tetrahydrothiophene-1,1-dioxide)	126-33-0	125	200	200	200	Monkey TClo, rat 8 hr LC lo minimum.
2958	Tetramethylsilane	75-76-3	15	50	75	350	
2959	**Tetranitromethane**	**509-14-8**	4.17	4.17	**4.17**	**13.6**	AEGL-2, AEGL-2, **AEGL-2, AEGL-3**
2960	Tetraoxadodecane, 2,5,8,11-	112-49-2	6	20	150	750	Mouse oral TDlo preg.
2961	Tetraoxatetracosan-1-ol, 3,6,9,12-; ((Laurel alcohol tri(oxyethylene) ethanol; BRIJ 30)	5274-68-0	10	30	50	250	
2962	Tetraphenylarsonium chloride; (Tetraphenylarsenium chloride)	507-28-8	2.79	8.38	14	25	
2963	Tetrapotassium ethylenediaminetetraacetate; (EDTA tetrapotassium salt)	5964-35-2	4	15	75	400	**SAR**
2964	Tetrapropoxysilane	682-01-9	7.5	25	150	500	Rat oral LD50 estimated from HHR = 2.
2965	Tetrapropylammonium hydroxide	4499-86-9	0.15	0.5	3.5	15	
2966	Tetrapropylorthotitanate	3087-37-4	10	30	50	250	PNOS default.
2967	Tetrasodium pyrophosphate	7722-88-5	5	15	25	500	REL-TWA, TEEL-0*3, TEEL-0*5, rat oral LD50.
2968	Tetrazole, 1H-	288-94-8	10	30	50	150	TLV-TWA default, HHR-based rat oral LD50.
2969	Thallium	7440-28-0	0.1	0.3	2	15	
2970	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 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2971	Thallium hydroxide	12026-06-1	0.108	0.325	0.542	16.2	
2972	Thallium nitrate; (Thallium(I) nitrate)	10102-45-1	0.13	0.391	19.6	19.6	
2973	Thallium nitrite	13826-63-6	0.123	0.368	0.613	18.4	
2974	Thallium oxide	1314-12-1	0.104	0.312	0.52	15	
2975	Thallium sulfate; (Sulfuric acid, dithallium(1+) salt)	10031-59-1	0.107	0.32	2	16	
2976	Thallium(I) acetate; (Acetic acid, thallium(1+) salt)	563-68-8	0.129	0.387	2.5	19.3	
2977	Thallium(I) carbonate (2:1)	6533-73-9	0.4	1.25	2	10	
2978	Thallium(I) sulfate; (Sulfuric acid, dithallium(1+) salt)	7446-18-6	0.123	0.37	0.617	1.5	PEL-TWA, TEEL-0 x 3, human oral TDlo, human oral LD lo.
2979	Thallium(III) oxide	1314-32-5	0.4	1.25	2	20	PAC-2/5, PAC-2*3/5, LOC, rat oral LD50
2980	Thallium(III) perchlorate hexahydrate	15596-83-5	0.299	0.897	7.5	44.8	
2981	Thallous malonate	2757-18-8	0.125	0.375	2	18.7	
2982	Thenoyltrifluoroacetone	326-91-0	1.25	3.5	25	125	
2983	Thioacetamide	62-55-5	10	30	50	125	
2984	Thioacetic acid	507-09-5	0.02	0.06	0.4	30	Rat skin TG lo, mouse ip LD50.
2985	Thiobis(4-chloro-6-methyl)phenol, 2,2'-	4418-66-0	0.25	0.75	1.3	1.3	LOC, rat oral LD50.

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Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
2986	Thiocarbazide; (Thiocarbohydrazide)	2231-57-4	20	60	100	100	
2987	Thiocresol, p-; (p-Toluenethiol)	106-45-6	0.75	2.5	15	75	Mouse ip LD50.
2988	Thiocyanic acid, compound with guanidine (1:1); (Guanidene thiocyanate salt)	593-84-0	1.25	3.5	25	125	Mouse ip LD50.
2989	Thiodiglycol	111-48-8	25	75	500	500	
2990	Thiofanox; (Dacamox)	39196-18-4	8.5	8.5	8.5	30	
2991	Thionazin; (Ethyl pyrazinyl phosphorothioate)	297-97-2	0.6	2	3.5	3.5	
2992	**Thionyl chloride**	**7719-09-7**	0.3	**0.97**	**11.7**	**68.1**	ERPG-1/3, **ERPG-1**, **AEGL-2, AEGL-3.**
2993	Thiophosphoryl chloride	3982-91-0	1.25	4	25	60	Rat oral TDlo, rat 240 min LC50.
2994	Thiosemicarbazide	79-19-6	0.075	0.2	1.5	4	
2995	Thiourea	62-56-6	10	10	25	125	
2996	Thiram; (Tetramethylthioperoxydicarbonic diamide)	137-26-8	5	5	5	100	PEL-TWA, TEEL-O, TEEL-0, IDLH.
2997	Thorium	7440-29-1	0.2	0.6	4	20	Human TClo.
2998	Thorium hydroxide	13825-36-0	0.75	0.75	2.5	75	**SAR**
2999	Thorium nitrite	z-0079	0.05	0.125	0.75	75	**SAR**
3000	Thorium oxalate	2040-52-0	42.1	126	210	500	T-0 based on DRL for Th.

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Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
3001	Thorium oxide; (Thorium dioxide)	1314-20-1	25	75	500	500	Human intra-arterial TDlo, rat it LD50 minimum.
3002	Thorium perchlorate	16045-17-3	31.4	94.3	157	500	T-0 based on DRL for Th.
3003	Thorium(IV) nitrate	13823-29-5	0.75	2	15	25	Rat sc TDlo, rat ip LD50.
3004	Thulium	7440-30-4	10	30	50	250	PNOS default used.
3005	Thulium chloride	13537-18-3	15	50	350	500	Mouse oral LD50.
3006	Thulium oxide	12036-44-1	11.4	34.3	60	300	PNOS default.
3007	Thymol blue; (6,6-(3H-2,1-benzoxathiol-3-ylidene)dithymol, S,S-dioxide)	76-61-9	10	30	50	250	PNOS default used.
3008	Thyodene; (Amylodextrin)	9005-84-9	10	30	50	250	
3009	Tin	7440-31-5	2	6	100	100	PEL-TWA, TLV-TWA*3, TLV-TWA*5, IDLH inorganic compounds, as Sn.
3010	Tin fluoroborate	13814-97-6	4.93	14.8	25	246	PEL-TWA, TLV-TWA*3, TLV-TWA*5, IDLH inorganic compounds, as Sn.
3011	Tin hydroxide	12026-24-3	2.57	7.72	12.9	129	PEL-TWA, TLV-TWA*3, TLV-TWA*5, IDLH inorganic compounds, as Sn.
3012	Tin nitrate	41480-79-9	4.09	12.3	20.4	204	PEL-TWA, TLV-TWA*3, TLV-TWA*5, IDLH inorganic compounds, as Sn.
3013	Tin nitrite	100737-27-7	3.55	10.7	17.8	178	PEL-TWA, TLV-TWA*3, TLV-TWA*5, IDLH inorganic compounds, as Sn.
3014	Tin(II) chloride dihydrate; (Stannous chloride dihydrate)	10025-69-1	3.8	11.4	20	190	PEL-TWA, TLV-TWA*3, TLV-TWA*5, IDLH inorganic compounds, as Sn.
3015	Tin(II) oxide	1332-29-2	2.54	7.62	12.7	60	TLV-TWA, TLV-TWA*3, TLV-TWA*5, PAC-2*5

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Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
3016	Tin(II) sulfate; (Stannous sulfate)	7488-55-3	3.62	10.9	18.1	181	PEL-TWA, TLV-TWA*3, TLV-TWA*5, IDLH inorganic compounds, as Sn.
3017	Tin(IV) isopropoxide	1184-61-8	0.35	0.7	15	87.4	PEL-TWA, TLV-STEL, PAC-3/5, IDLH organic compounds, as Sn.
3018	Tin(IV) oxide; (Stannic oxide)	18282-10-5	2.54	7.62	12.7	500	TLV-TWA, TLV-TWA*3, TLV-TWA*5, rat oral LD50 minimum.
3019	Titanium	7440-32-6	10	30	50	50	
3020	Titanium aluminide	39410-63-4	10	30	50	250	
3021	Titanium boride	12045-63-5	10	30	50	250	
3022	Titanium carbide	12070-08-5	12.5	37.5	62.6	300	
3023	Titanium chloride	7705-07-9	0.5	1.5	10	50	
3024	Titanium hydride	7704-98-5	1.5	5	35	150	
3025	Titanium oxide; (Titanium dioxide)	13463-67-7	15	15	15	500	
3026	**Titanium tetrachloride**	**7550-45-0**	0.5	**5**	**7.75**	**44.2**	WEEL-TWA, **ERPG-1**, **AEGL-2, AEGL-3.**
3027	Titanium(II) oxide	12137-20-1	10	30	50	250	
3028	Titanium(III) fluoride	13470-08-1	4.6	12.5	75	460	Fluoride concentration limits.
3029	Titanium-based alloy; (Titanium compounds)	z-0081	10	30	50	250	
3030	**Toluene**	**108-88-3**	75	**753**	**4,520**	**16,900**	TLV-TWA, **AEGL-1, AEGL-2, AEGL-3.**

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Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
3031	Toluene diisocyanate (mixed isomers)	26471-62-5	1.5	5	12.5	12.5	
3032	**Toluene-2,4-diisocyanate; (TDI)**	**584-84-9**	0.035	**0.142**	**0.591**	**3.63**	TLV-TWA, **AEGL-1, AEGL-2, AEGL-3**
3033	Toluene-2,6-diamine; (2-Methyl-1,3-benzenediamine)	823-40-5	1.5	4	30	150	
3034	**Toluene-2,6-diisocyanate**	**91-08-7**	0.035	**0.142**	**0.591**	**3.63**	TLV-TWA, **AEGL-1, AEGL-2, AEGL-3**
3035	Toluene-d8; (Deuterated toluene)	2037-26-5	200	750	2,000	10,000	Used Toluene (108-88-3) PACs.
3036	Toluenediamine, 2,4-; (2,4-Diaminotoluene)	95-80-7	0.005	7.5	60	250	WEEL-TWA, PAC-2/7, rat oral TDlo, rat oral LD50.
3037	Toluenesulfonamide, p-; (Pasam)	70-55-3	1	3	20	100	Mouse ip LD50.
3038	Toluenesulfonic acid, methyl ester, p-	80-48-8	0.75	2.5	15	150	Rat oral TDlo and LD50.
3039	Toluenesulfonyl chloride, p-	98-59-9	2.5	7.5	50	250	WEEL-C, rat oral TDlo.
3040	Toluenesulphonic acid monohydrate, para-; (4-Methylbenzenesulphonic acid monohydrate)	6192-52-5	10	30	200	500	
3041	Toluenethiol, m-	108-40-7	0.2	0.6	4	20	
3042	Toluidine, m-; (3-Methylaniline)	108-44-1	7.5	35	200	200	TLV-TWA, rat oral TDlo, rat oral LD50.
3043	Toluidine, o-	95-53-4	20	20	20	200	Concentration limits, Human TClo.
3044	Toluidine, p-; (4-Methylbenzenamine)	106-49-0	2	15	125	150	TLV-TWA, rat oral TDlo, rat oral LD50.
3045	Toxaphene; (Chlorinated camphene)	8001-35-2	0.5	1	20	200	PEL-TWA, TLV-STEL, LOC, IDLH.

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Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
3046	Trans-1,4-dichlorobutene; (2-Butylene dichloride)	110-57-6	0.2	0.6	4	40	
3047	Transformer oil; (Mineral oil, petroleum distillates, hydrotreated (mild) light naphthenic)	64742-53-6	5	15	100	500	
3048	Tri(2-ethylhexyl) phosphate; (Tris(2-ethylhexyl)phosphate)	78-42-2	12.5	12.5	12.5	12.5	
3049	Triacetin; (Triacetyl glycerin)	102-76-1	12.5	35	250	500	
3050	Triamiphos	1031-47-6	2	6	10	10	
3051	Triaryl sulfonium chloride salts	109037-76-5	10	10	25	125	
3052	Triazine-1,3,5(2H,4H,6H)-triethanol, s-; (Onyxide 200)	4719-04-4	3	10	60	350	
3053	Triazofos; (Triazophos)	24017-47-8	0.5	1.5	2.8	125	
3054	Tribenzylamine	620-40-6	10	30	50	250	PNOS default.
3055	Tributyl citrate	77-94-1	15	50	350	1,250	Mouse ip LD50 and TDlo.
3056	Tributyl phosphate	126-73-8	5	25	150	300	PEL-TWA, rat oral TDlo, IDLH.
3057	Tributyl(2,4-dichlorobenzyl)phosphonium chloride	115-78-6	0.75	2	15	75	
3058	Tributyl-1-butanaminium iodide, N,N,N-; (Tetrabutylammonium iodide)	311-28-4	7.5	25	150	500	Rat oral D50.
3059	Tributylphosphine	998-40-3	3	7.5	60	300	Rat oral LD50.
3060	Tributyltetradecylphosphonium chloride	81741-28-8	10	30	50	250	PNOS default used

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
3061	Trichloramine; (Nitrogen chloride)	10025-85-1	0.6	1.5	12.5	100	
3062	**Trichloro(dichlorophenyl) silane; (Dichlorophenyltrichlorosilane)**	**27137-85-5**	2	**6.88**	**83.7**	**378**	AEGL-1/3, **AEGL-1, AEGL-2, AEGL-3.**
3063	Trichloro-2,2,2-trifluoroethane, 1,1,1-	354-58-5	250	500	500	500	
3064	Trichloroacetaldehyde hydrate; (Chloral hydrate)	302-17-0	10	30	50	50	
3065	Trichloroacetaldehyde; (Chloral)	75-87-6	2.5	7.5	50	250	
3066	Trichloroacetic acid	76-03-9	6	6	15	150	
3067	Trichloroacetyl chloride	76-02-8	0.2	0.6	4	50	Rat 240 min LC50.
3068	Trichlorobenzene, 1,2,3-	87-61-6	6	15	125	500	
3069	Trichlorobenzene, 1,2,4-	120-82-1	35	35	35	300	
3070	**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.**
3071	Trichloroethane, 1,1,2-	79-00-5	50	50	75	500	
3072	Trichloroethanol, 2,2,2-	115-20-8	12.5	35	250	250	Ratoral TDlo, rat oral LD50.
3073	**Trichloroethylene**	**79-01-6**	50	**698**	**2,420**	**20,400**	TLV-TWA, **AEGL-1, AEGL-2, AEGL-3.**
3074	**Trichloroethylsilane; (Ethyl trichlorosilane)**	**115-21-9**	1.25	**4.01**	**48.8**	**221**	AEGL-1/3, **AEGL-1, AEGL-2, AEGL-3.**
3075	Trichlorofluoromethane; (Fluorotrichloromethane, Freon 11)	75-69-4	5,000	5,000	7,500	10,000	PEL-TWA, TEEL-0, EEGL, IDLH.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
3076	Trichlorohydroxyethyl dimethylphosphonate; ((2,2,2-Trichloro-1-hydroxyethyl)dimethylphosphonate; Trichlorphon)	52-68-6	1	3	5	500	TLV-TWA, human TClo, rat 240 min LC50.
3077	Trichloroisocyanuric acid	87-90-1	30	75	500	500	Human oral LD lo.
3078	Trichloronaphthalene	1321-65-9	5	15	25	50	PEL-TWA, TEEL-0*3, TEEL-0*5, IDLH.
3079	Trichloronate; (Ethyl trichlorophenylethylphosphonothioate)	327-98-0	2	6	10	300	
3080	Trichlorophenol, 2,3,6-	933-75-5	1.25	4	25	125	
3081	Trichlorophenol, 2,4,5-	95-95-4	10	30	350	350	
3082	Trichlorophenol, 2,4,6-	88-06-2	10	30	350	350	
3083	Trichlorophenoxy)propionic acid, 2-(2,4,5-; (Silvex)	93-72-1	10	30	200	250	
3084	Trichlorophenoxyacetic acid, 2,4,5-; (2,4,5-T)	93-76-5	10	30	50	250	
3085	**Trichlorophenylsilane**	**98-13-5**	1.5	**5.19**	**63.1**	**285**	AEGL-1/3, **AEGL-1, AEGL-2, AEGL-3.**
3086	Trichloropropane, 1,2,3-	96-18-4	60	60	60	600	
3087	**Trichlorosilane**	**10025-78-2**	1	**3.32**	**40.4**	**183**	AEGL-1/3, **AEGL-1, AEGL-2, AEGL-3.**
3088	Trichlorotrifluoroethane; (Freon 113; CFC113)	76-13-1	7,500	10,000	10,000	15,000	
3089	Tridecane	629-50-5	0.125	0.35	2.5	50	Rabbit skin TDlo, rat 480 min LC50 minimum.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
3090	Tridodecylamine; (Alamine 304; N,N-didodecyl-1-dodecanamine)	102-87-4	7.5	25	150	500	Rat oral LD50 based on HHR.
3091	Triethanolamine; (Trihydroxytriethylamine)	102-71-6	5	5	20	500	
3092	**Triethoxysilane**	**998-30-1**	0.35	**3.36**	**26.9**	**67.2**	WEEL-TWA, **ERPG-1, ERPG-2, ERPG-3.**
3093	Triethoxyvinylsilane	78-08-0	125	400	2,500	12,500	Rat 240 min LC lo.
3094	Triethyl phosphate; (TEP)	78-40-0	75	200	500	500	Rat TClo, rat LC lo.
3095	Triethyl phosphite	122-52-1	12.5	40	300	1,500	
3096	Triethylaluminum	97-93-8	8.46	8.46	50	250	Aluminum alkyls (as Al) TLV-TWA, rat 15 min LC50.
3097	Triethylamine	121-44-8	4	12.5	12.5	750	
3098	Triethylammonium bicarbonate buffer ph 8.5	15715-58-9	10	30	50	250	PNOS default used.
3099	Triethylbenzene (mixed isomers)	25340-18-5	40	125	750	4,000	
3100	Triethylene glycol	112-27-6	300	500	500	500	
3101	Triethylene glycol monomethyl ether	112-35-6	40	125	500	500	
3102	Triethylenetetramine	112-24-3	6	50	350	1,000	WEEL-TWA, pregnant rat oral TDlo, rat oral LDF50.
3103	Triethylethanaminium hydroxide, N,N,N-; (Tetraethyl ammonium hydroxide)	77-98-5	0.35	1	7.5	35	Mouse subcutaneous LD lo
3104	Triethyloxonium tetrafluoroborate	368-39-8	6.25	18.8	31.3	500	Fluoride concentration limits.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
3105	TrietHylphosphorothioate; (Tepto)	126-68-1	1.25	4	25	125	Rat 240 min LC50.
3106	Trifluoro-1-(2-thienyl)-1,3-butanedione, 4,4,4-, boron difluoride	22502-27-8	0.75	2.5	15	75	Mouse iv LD50.
3107	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.
3108	Trifluoroacetaldehyde hydrate; (2,2,2-Trifluoro-1,1-ethanediol)	421-53-4	2.5	7.5	50	250	Mouse oral LD50.
3109	Trifluoroacetic acid anhydride	407-25-0	4.61	13.8	23	461	Concentration limits, as F
3110	Trifluoroacetic acid; (Trifluoroethanoic acid)	76-05-1	50	75	75	75	
3111	Trifluoroacetyl chloride	354-32-5	6	15	250	1,250	
3112	Trifluoroethanol, 2,2,2-; (Trifluoroethyl alcohol)	75-89-8	1.25	35	250	250	WEEL-TWA, rat TClo, rat LC50.
3113	Trifluoromethanesulfonic acid; (Triflic acid)	1493-13-6	0.6	1.5	12.5	60	Rat 240 min LC50 based on HR =3.
3114	Trifluoromethanesulfonic anhydride	358-23-6	1.5	5	35	150	Rat oral LD50 based on HHR = 3.
3115	Trifluoromethyl iodide; (Iodotrifluoromethane)	2314-97-8	15,000	35,000	35,000	35,000	Rat 2 week TClo, rat 4 hour LC lo.
3116	Trifluoromethyl)benzenamine, 3-(; (m-Aminobenzal fluoride)	98-16-8	0.75	2.5	4.4	150	
3117	Trifluralin; (2,6-Dinitro-N,N-dipropyl-4-(trifluoromethyl) benzenamine)	1582-09-8	0.025	0.075	0.6	300	
3118	Triisobutylaluminum	100-99-2	14.7	44.1	500	500	
3119	Trimethoxy(3,3,3-fluoropropyl) silane	429-60-7	9.57	28.7	50	500	Fluoride concentration limits.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
3120	Trimethoxyboroxine	102-24-9	20	60	400	500	
3121	**Trimethoxysilane**	**2487-90-3**	0.25	**2.5**	**4.15**	**12.5**	WEEL-TWA, **ERPG-1**, **AEGL-2, AEGL-3.**
3122	Trimethoxysilyl)-1-propanamine, 3-(	13822-56-5	10	30	50	250	PNOS default
3123	Trimethoxysilyl-1-Propanethiol, 3-; (3-Mercaptopropyltrimethoxysilane)	4420-74-0	3	7.5	60	300	Rat oral LD50
3124	Trimethoxysilylpropyl methacrylate, 3-; (Silane A-174)	2530-85-0	6	15	125	500	Rat TClo, rat oral LD50.
3125	Trimethoxysilylpropyl) ethylenediamine, N-(3-	1760-24-3	30	75	500	500	Rat oral LD50.
3126	Trimethoxyvinylsilane; (Vinyltrimethoxysilane; Silane, trimethoxyvinyl)	2768-02-7	750	2,500	7,500	7,500	PAC-2/21, PAC-2/7, rat TClo, rat LC50.
3127	Trimethyl borate	121-43-7	25	75	500	2,500	Rat oral LD50
3128	Trimethyl N', 2-hydroxyethyl-propylenediamine	82136-26-3	10	30	50	250	Used PNOS default.
3129	Trimethyl phosphate; (TMP)	512-56-1	25	75	350	350	
3130	Trimethyl phosphite	121-45-9	10	350	2,500	4,000	
3131	Trimethyl-1,3-pentanediol monoisobutyrate, 2,2,4-; (Texanol)	25265-77-4	25	75	500	500	
3132	Trimethyl-1-pentene, 2,4,4-; (Diisobutylene)	107-39-1	350	1,000	1,500	7,500	WEEL-TWA
3133	Trimethyl-2,5,8,11-tetraoxatetradecan-13-ol, 4,7,10-	20324-34-9	10	30	50	250	
3134	Trimethyl-2-hexene, 4,4,5-	55702-61-9	10	30	50	250	

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
3135	Trimethyl-2-oxepanone (mixed isomers); (Hexanoic acid, 6-hydroxytrimethyl, epsilon-lactone)	64047-30-9	30	75	500	500	Rat oral LD50
3136	Trimethylacetic acid; (Pivalic acid)	75-98-9	3.5	10	75	400	Rat oral LD50.
3137	Trimethylacetyl chloride; (Pivaloyl chloride)	3282-30-2	0.5	1.5	10	50	Rat 240 min LC50 assumed from HR=3
3138	Trimethylaluminum	75-24-1	5.34	16	26.7	125	TLV-TWA
3139	**Trimethylamine**	**75-50-3**	12.5	**19.3**	**290**	**918**	TLV-TWA, **AEGL-1, AEGL-3, AEGL-3.**
3140	Trimethylaniline, 2,4,6-	88-05-1	0.125	0.4	2.9	40	
3141	**Trimethylbenzene, 1,2,3-**	**526-73-8**	125	**688**	**1,770**	7,500	TLV-TWA, **AEGL-1, AEGL-2,** rat oral LD lo.
3142	**Trimethylbenzene, 1,2,4-; (Pseudocumene)**	**95-63-6**	125	**688**	**1,770**	7,500	TLV-TWA, **AEGL-1, AEGL-2,** rat 240 min LC50**.**
3143	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
3144	**Trimethylchlorosilane**	**75-77-4**	2.5	**7.99**	**142**	**577**	AEGL-1/3, **AEGL-1, AEGL-2, AEGL-3.**
3145	Trimethyldecane, 2,2,8-	62238-01-1	350	350	1,500	7,500	NIOSH REL-TWA for alkanes.
3146	Trimethyldecane, 2,5,6-	62108-23-0	350	350	1,500	7,500	NIOSH REL-TWA for alkanes.
3147	Trimethyldecane, 3,3,4-	49622-18-6	350	350	1,500	7,500	NIOSH REL-TWA for alkanes.
3148	Trimethylene oxide; (Oxetane)	503-30-0	0.1	0.3	2	75	Rat sc TDlo and LD50.
3149	Trimethylgallium	1445-79-0	1.5	5	35	150	Rat oral LD50 based on HHR.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
3150	Trimethylhexane, 2,2,5-	3522-94-9	350	350	1,500	7,500	NIOSH REL-TWA for alkanes.
3151	Trimethyloctane	98060-52-7	350	350	1,500	6,000	NIOSH REL-TWA for alkanes.
3152	Trimethyloctane, 2,2,6-	62016-28-8	350	350	1,500	7,500	NIOSH REL-TWA for alkanes.
3153	Trimethyloctane, 2,3,7-	62016-34-6	350	350	1,500	7,500	NIOSH REL-TWA for alkanes.
3154	Trimethyloctane, 2,4,6-	62016-37-9	350	350	1,500	7,500	NIOSH REL-TWA for alkanes.
3155	Trimethyloctane, 2,6,6-	54166-32-4	350	350	1,500	7,500	NIOSH REL-TWA for alkanes.
3156	Trimethylolpropane ethoxylate	50586-59-9	10	30	50	250	PNOS default.
3157	Trimethylolpropane phosphite	824-11-3	0.125	0.35	2.5	6	
3158	Trimethylopropane methylated copolymer	71342-93-3	10	30	50	250	Used PNOS default.
3159	Trimethylphosphine	594-09-2	0.3	1	6	35	Rat 240 min LC50 based on HHR = 3.
3160	Trimethylpyridine, 2,4,6-	108-75-8	7.5	25	150	750	
3161	Trimethylsilanol	1066-40-6	0.15	1.5	7.5	15	**SAR**
3162	Trimethylsilylmethyllithium	1822-00-0	1.5	5	35	150	Estimated rat oral LD50 based on HHR.
3163	Trimethyltin chloride; (Chlorotrimethylstannane)	1066-45-1	0.168	0.336	20	42	
3164	Trimethyltriheptylamine, 6,6',6''-; (Triisooctylamine)	2757-28-0	10	15	125	500	

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
3165	Tri-n-butylamine	102-82-9	0.15	0.5	3.5	60	Rat oral TDlo, rat 240 min LC lo.
3166	Trinitrobenzene, 1,3,5-	99-35-4	10	30	50	125	
3167	Trinitrochlorobenzene; (Picryl chloride)	28260-61-9	10	30	50	250	
3168	Trinitrophenylmethylnitramine, 2,4,6-; (Tetryl)	479-45-8	1.5	7.5	50	500	
3169	Trinitrotoluene, 2,4,6-	118-96-7	1.5	7.5	60	500	
3170	Tri-n-octylphosphine oxide; (Trioctylphophine oxide)	78-50-2	10	30	50	250	
3171	Trioctylamine; (N,N-Dioctyl-1-octanamine)	1116-76-3	4	12.5	75	400	
3172	Trioctylphosphine; (Tri-n-octylphosphine)	4731-53-7	0.5	1.5	10	50	Mouse 10 minute LC50 minimum.
3173	Tri-o-tolyl phosphate; (Triorthocresyl phosphate)	78-30-8	1.5	4	7.5	600	
3174	Tripentaerythritol	78-24-0	10	30	50	250	
3175	Triphenyl phosphate	115-86-6	3	9	500	500	
3176	Triphenyl phosphite	101-02-0	7.5	25	150	200	
3177	Triphenylborane	960-71-4	7.5	25	150	500	Rat oral LD50 based on HHR
3178	Triphenylethoxysilane	1516-80-9	10	30	50	250	PNOS default.
3179	Triphenylolmethane triglycidyl ether	66072-38-6	10	30	50	250	PNOS default.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
3180	Triphenylphosphine	603-35-0	1.5	5	40	500	
3181	Triphenyltin chloride; (Chlorotriphenylstannane)	639-58-7	0.325	0.65	20	81.2	
3182	Tripotassium (2-hydroxyethyl)ethylenediaminetriacetate; (Tripotassium HEDTA)	62029-50-9	5	15	125	600	**SAR**
3183	Tripotassium arsenate	13464-36-3	0.0342	0.103	0.171	17.1	
3184	Tripropylamine	102-69-2	20	60	400	2,000	Rat 240 min LC50.
3185	Tripropylene glycol methyl ether	25498-49-1	12.5	40	250	500	Rat oral LD50.
3186	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	
3187	Tripropylene glycol; (((1-methyl-1,2-ethanediyl)bis(oxy))bispropanol)	24800-44-0	12.5	35	250	1,250	Rat oral LD50.
3188	Tris hydrochloride; (Trizma hydrochloride; Tris(hydroxymethyl) aminomethane hydrochloride)	1185-53-1	7.5	25	150	500	Rat oral LD50 based on MSDS HHR = 2.
3189	Tris((hydroxymethyl)methylamino)propane-1-sulphonic acid, 3-	29915-38-6	10	30	50	250	PNOS default.
3190	Tris(2-aminoethyl)amine	4097-89-6	2	6	40	100	Rat oral TDlo, rat oral LD50.
3191	Tris(2-chloroethyl) phosphate; (2-Chloroethanol phosphate)	115-96-8	7.5	20	150	500	
3192	**Tris(2-chloroethyl)amine; (Nitrogen mustard-3)**	**555-77-1**	0.001	0.003	**0.022**	**0.37**	AEGL-2/21, AEGL-2/7, **AEGL-2, AEGL-3.**
3193	Tris(dimethylaminomethyl)phenol, 2,4,6-	90-72-2	5	15	100	500	

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
3194	Tris-hydroxymethylaminomethane; (THAM)	77-86-1	25	75	500	500	
3195	Trisodium arsenate	13464-38-5	0.0277	0.0832	0.139	13.9	
3196	Trisodium arsenate, heptahydrate; (Arsenic(V) acid, trisodium salt, heptahydrate (1:3:7))	64070-83-3	0.0446	0.134	0.223	22.3	
3197	Trisodium citrate	68-04-2	6	20	125	600	
3198	Trisodium N-hydroxyethylethylenediaminetriacetate; (Trisodium N-(2-hydroxyethyl)ethylenediaminetriacetate)	139-89-9	4	12.5	75	400	
3199	Triton X-100; (Poly(oxyethylene)-p-tert-octylphenyl ether)	9002-93-1	15	40	300	500	
3200	Trypan blue	72-57-1	10	30	50	500	
3201	Trypsin; (Parenzyme; Chymotrypsin inhibitor)	9002-07-7	0.025	0.075	0.6	30	Mouse intramuscular TDlo, rat iv LD40.
3202	Trypsinogen	9002-08-8	7.5	25	150	500	Rat oral LD50 based on HHR = 2.
3203	Tungsten	7440-33-7	5	10	10	500	
3204	Tungsten boride	12007-09-9	5.29	10.6	26.5	125	Tungsten insoluble compound limits.
3205	Tungsten carbide	12070-12-1	5.33	10.7	10.7	10.7	
3206	Tungsten hexafluoride	7783-82-6	1.62	4.86	75	405	
3207	Tungsten trioxide; (Tungsten(VI) oxide)	1314-35-8	6.31	12.6	400	400	

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
3208	Tungsten(IV) chloride; (Tungsten tetrachloride)	13470-13-8	10	30	50	250	PNOS default used.
3209	Tungsten(IV) oxide	12036-22-5	5.87	11.7	11.7	11.7	
3210	Tungstic acid	7783-03-1	6.8	13.6	13.6	13.6	
3211	Tungstosilicic acid	11130-20-4	6.52	13	13	13	TLV-TWA, TLV-STEL, TLV-STEL, TLV-STEL.
3212	Turpentine	8006-64-2	100	100	100	4,000	TLV-TWA, TEEL-0, human TClo, IDLH.
3213	Undecane	1120-21-4	2	6	40	200	Rat oral LD50.
3214	Undecanone, 2-; (Methyl nonyl ketone)	112-12-9	1.25	4	30	2,000	
3215	Uranine; (Fluorescein sodium)	518-47-8	12.5	40	250	500	
3216	Uranium	7440-61-1	0.05	0.6	2	10	Concentration limits.
3217	**Uranium hexafluoride; (Uranium fluoride)**	**7783-81-5**	0.0739	**3.6**	**9.6**	**36**	PEL-TWA, **AEGL-1, AEGL-2, AEGL-3**
3218	Uranium hydride; (Uranium(III) hydride)	13598-56-6	0.0506	0.608	2	10.1	Uranium compound concentration limits.
3219	**Uranium oxide; (Triuranium octaoxide)**	**1344-59-8**	0.059	0.707	**10**	**50**	PEL-TWA, TLV-STEL**, ERPG-2, ERPG-3.**
3220	Uranium telluride	12138-37-3	0.104	1.24	4	20.7	Uranium compound concentration limits.
3221	Uranium telluride A	12138-37-3a	0.0857	1.03	3.5	17.1	Uranium compound concentration limits.
3222	**Uranium trioxide**	**1344-58-7**	0.0601	0.5	**0.5**	**3**	PEL-TWA, PAC-2**, ERPG-2, ERPG-3.**

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
3223	**Uranium(IV) oxide; (Uranium dioxide)**	**1344-57-6**	0.0567	0.681	**10**	**30**	PEL-TWA, TLV-STEL**, ERPG-2, ERPG-3.**
3224	Uranium: insoluble compounds	z-0083	0.05	0.6	2	10	Uranium compound concentration limits.
3225	Uranium: soluble compounds	z-0084	0.05	0.6	2	10	Uranium compound concentration limits.
3226	Uranyl acetate; (Uranium oxyacetate)	541-09-3	0.0891	1.07	3.5	17.8	Uranium compound concentration limits.
3227	Uranyl fluoride; (Uranium oxyfluoride)	13536-84-0	0.0647	0.776	2.5	12.9	Uranium compound concentration limits.
3228	Uranyl hydroxide	13470-18-3a	0.0639	0.766	2.5	12.8	Uranium compound concentration limits.
3229	Uranyl hydroxide (liquids)	13470-18-3b	0.0639	0.766	2.5	12.8	Uranium compound concentration limits.
3230	Uranyl nitrate (solid); (Bis(nitrato-O,O')dioxouranium)	10102-06-4	0.0828	0.993	3	16.6	Uranium compound concentration limits.
3231	Uranyl nitrate (yellow salt)	36478-76-9	0.0828	0.993	0.993	16.6	Uranium compound concentration limits.
3232	Uranyl nitrate hexahydrate	13520-83-7	0.105	1.27	1.27	21.1	Uranium compound concentration limits.
3233	Uranyl nitrite (liquids)	z-0087	0.076	0.913	3	15.2	Uranium compound concentration limits.
3234	Urea	57-13-6	10	10	15	500	WEEL-TWA, women implant TDlo, rat oral LD50.
3235	Urea peroxide; (Urea hydrogen peroxide)	124-43-6	1.5	5	35	150	Rat oral LD50 estimated from HHR = 3.
3236	Urea, substituted; (Urea, N,N''-(4-methyl-1,3-phenylene)bis[N',N'-dimethyl-)	17526-94-2	1.5	5	35	150	Estimated rat oral LD50
3237	Urethane; (Carbamic acid, ethyl ester; Ethyl carbamate)	51-79-6	500	500	500	500	

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
3238	Valeric acid	109-52-4	30	75	500	500	Rat oral preg. 10 day TDlo, mouse oral LD50
3239	Valinomycin	2001-95-8	0.5	1.5	2.5	2.5	
3240	Vanadium	7440-62-2	0.05	0.15	0.5	35	
3241	Vanadium pentoxide; (Vanadium(V) oxide)	1314-62-1	0.05	0.075	0.5	35	
3242	Vanadium sulfate	16785-81-2	0.5	1.5	10	50	
3243	Vanadium tetrachloride	7632-51-1	0.6	2	12.5	60	
3244	Vanadium trioxide	1314-34-7	0.0412	0.124	50	50	V2.O5 TLV-TWA, rat TClo, mouse oral LD50.
3245	Vanadium(II) sulfate heptahydrate	36907-42-3	0.05	0.05	0.05	0.25	
3246	Vanadium(III) sulfate	13701-70-7	0.107	0.107	0.107	0.5	
3247	Vanadium, trichlorooxo	7727-18-6	0.6	1.5	12.5	60	Rat oral LD50.
3248	Vanadyl sulfate pentahydrate; (Vanadium(IV) sulfate oxide hydrate)	12439-96-2	0.0696	3	20	200	
3249	Vanadyl sulfate; (Oxysulfatovanadium)	27774-13-6	0.05	0.075	0.5	35	
3250	Vanilin	121-33-5	5	15	125	500	Rat TClo, rat LD50.
3251	Vegetable oil	68956-68-3	15	30	50	500	
3252	Veratraldehyde	120-14-9	7.5	25	150	500	Rat oral LD50.

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
3253	Vermiculite, exfoliated	1318-00-9	10	30	50	250	
3254	Vinyl 2-chloroethylsulfide; (2-Chloroethylthio ethene)	81142-02-1	0.15	0.4	3	15	Mouse 10 min LC lo for allyl 2-chloroethylsulfide.
3255	**Vinyl acetate**	**108-05-4**	23.6	**23.6**	**633**	**2,150**	AEGL-1, **AEGL-1, AEGL-2, AEGL-3.**
3256	Vinyl acetate-vinyl chloride copolymer; (Acetic acid, vinyl ester, polymer with chloroethylene)	9003-22-9	35	100	500	500	
3257	Vinyl acrylic resin; (Vinyl acetate, polymer with n-butyl acrylate)	25067-01-0	10	30	50	250	
3258	Vinyl bromide	593-60-2	20	60	100	200	
3259	**Vinyl chloride**	**75-01-4**	2.5	**639**	**3,070**	**12,300**	PEL-TWA, **AEGL-1, AEGL-2, AEGL-3.**
3260	Vinyl ethyl ether; (Ethoxy ethene)	109-92-2	50	150	1,000	5,000	
3261	Vinyl fluoride	75-02-5	1.5	100	750	150,000	TLV-TWA, REL-C, rat 240 min LC50.
3262	Vinyl terminated dimethylsiloxane-diphenylsiloxane copolymer	68951-96-2	75	250	500	500	Rat oral LD50 based on HHR.
3263	**Vinyl trichlorosilane**	**75-94-5**	1.25	**3.96**	**48.2**	**218**	AEGL-1/3, **AEGL-1, AEGL-2, AEGL-3.**
3264	Vinyl-2-pyrrolidinone, 1-	88-12-0	0.2	25	150	350	TLV-TWA, rat TClo, rat 240 min LC50
3265	Vinylbenzylchloride; (4-Vinylbenzyl chloride)	1592-20-7	1.5	5	35	150	Rat oral LD50 based on HHR = 3.
3266	Vinylcyclohexene, 4-; (Cyclohexenylethylene)	100-40-3	0.4	1.25	200	15,000	TLV-TWA, TEEL-0*3, Rat TClo, rat 240 min LC lo.
3267	Vinylformamide, N-	13162-05-5	5	15	100	500	Rat 249 min. LC50 minimum.

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Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
3268	**Vinylidene chloride; (1,1-dichloroethylene)**	**75-35-4**	20	250	**1,980**	**3,960**	TLV-TWA, ERPG-2/7, **ERPG-2, ERPG-3.**
3269	Vinylidene fluoride; (1,1-Difluoroethene)	75-38-7	1,250	1,250	1,250	35,000	
3270	Vinylmagnesium bromide	1826-67-1	1.5	5	35	150	Estimated rat oral LD50 based on HHR.
3271	Vinylpyrrolidone/vinyl acetate copolymer	25086-89-9	100	250	250	250	Rat oral TDlo, rat oral LD50 minimum.
3272	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 TDlo, rat oral LD50 minimum.
3273	Warfarin	81-81-2	0.1	0.3	20	100	PEL-TWA, TEEL-0*3, LOC, IDLH.
3274	Warfarin sodium	129-06-6	1.5	5	9	9	
3275	Xenon	7440-63-3	350,000	350,000	1,250,000	2,000,000	Simple asphyxiant
3276	Xylene, m-	108-38-3	400	600	750	4,000	
3277	Xylene, o-	95-47-6	400	600	750	4,000	
3278	Xylene, p-	106-42-3	400	600	750	4,000	
3279	**Xylenes**	**1330-20-7**	400	**564**	**3,990**	**10,800**	PEL-TWA, **AEGL-1, AEGL-2, AEGL-3.**
3280	Xylenol orange tetrasodium salt	3618-43-7	10	30	50	250	
3281	Xylidine	1300-73-8	25	25	25	250	
3282	Xylidine, 2,6-	87-62-7	6	20	125	350	

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Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
3283	Xylidine, o-; (2,3-Xylidine)	87-59-2	2.5	50	50	250	
3284	Xylylene dichloride	28347-13-9	0.4	1.25	2	75	
3285	Yeast extract	8013-01-2	15	50	400	500	
3286	Ytterbium fluoride	13760-80-0	10.1	10.1	10.1	10.1	
3287	Ytterbium oxide	1314-37-0	10	30	50	250	
3288	Yttrium	7440-65-5	1	3	5	500	PEL-TWA, TEEL-0*3, TEEL-0*5, IDLH.
3289	Yttrium chloride, hexahydrate	10025-94-2	3.41	10.2	500	500	PEL-TWA, TEEL-0*3, rat oral TDlo, IDLH.
3290	Yttrium oxide	11130-29-3	1.18	3.54	150	500	PEL-TWA, TEEL-0*3, rat TClo, IDLH.
3291	Yttrium trioxide	1314-36-9	1.27	3.81	40	500	PEL-TWA, TEEL-0*3, rat TClo, IDLH.
3292	Zeolites, CaA	68989-20-8	7.5	25	150	500	Estimated rat oral LD50 from HHR.
3293	Zeolites, KA	68989-21-9	10	30	50	250	Used PNOS default
3294	Zeolites, NaA	68989-22-0	6	15	125	500	PAC-2/21, PAC-2/7, rat TClo, PAC-2 * 5.
3295	Zeolites, NaX	68989-23-1	10	30	50	250	Used PNOS default
3296	Zinc	7440-66-6	10	30	50	200	
3297	Zinc acetate	557-34-6	0.3	0.75	6	500	

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.

Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
3298	Zinc acetate dihydrate	5970-45-6	25	75	350	350	
3299	Zinc bromide	7699-45-8	10	30	50	200	
3300	Zinc carbonate	3486-35-9	5	15	100	500	
3301	Zinc carbonate hydroxide	5263-02-5	10	30	50	250	PNOS default.
3302	Zinc chloride	7646-85-7	1	2	50	50	PEL-TWA, TLV-STEL, human TClo, IDLH.
3303	Zinc cyanide	557-21-1	22.6	22.6	22.6	113	
3304	Zinc fluoride	7783-49-5	6.8	6.8	20	100	
3305	Zinc hydroxide	20427-58-1	0.6	0.6	1.5	60	**SAR**
3306	Zinc nitrate	7779-88-6	10	10	10	10	
3307	Zinc nitrate hexahydrate	10196-18-6	5	15	100	500	
3308	Zinc nitrite	10102-02-0	0.035	0.075	0.6	60	**SAR**
3309	Zinc oxide	1314-13-2	2	10	15	500	TLV-TWA, TLV-STEL, REL-C, IDLH.
3310	Zinc perchlorate	13637-61-1	10	30	50	250	PNOS default.
3311	Zinc phenolsulfonate; (Zinc p-hydroxybenzenesulfonate)	127-82-2	0.6	2	15	500	
3312	Zinc phosphate (3:2)	7779-90-0	2	6	50	250	

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Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
3313	**Zinc phosphide**	**1314-84-7**	0.5	1.5	**10.5**	**19**	AEGL-2/21, AEGL-2/7, **AEGL-2, AEGL-3.**
3314	Zinc stearate	557-05-1	15	30	50	150	
3315	Zinc sulfate	7733-02-0	0.15	0.5	3.5	500	
3316	Zinc sulfate heptahydrate (1:1:7)	7446-20-0	100	200	200	200	Rat oral TDlo, human uk LD lo.
3317	Zirconium boride	12045-64-6	6.19	12.4	61.9	61.9	PEL-TWA, TLV-STEL, TLV-STEL, IDLH.
3318	Zirconium carbide	12070-14-3	6.32	12.6	12.6	63.2	PEL-TWA, TLV-STEL, TLV-STEL, IDLH.
3319	Zirconium chloride	10026-11-6	12.8	25.5	25.5	128	PEL-TWA, TLV-STEL, TLV-STEL, IDLH.
3320	Zirconium chloride oxide octahydrate	13520-92-8	17.7	35.3	35.3	177	PEL-TWA, TLV-STEL, TLV-STEL, IDLH.
3321	Zirconium compounds (as Zr)	7440-67-7	5	10	10	50	PEL-TWA, TLV-STEL, TLV-STEL, IDLH.
3322	Zirconium fluoride	7783-64-4	9.17	18.3	18.3	91.7	PEL-TWA, TLV-STEL, TLV-STEL, IDLH.
3323	Zirconium hydride	7704-99-6	5.11	10.2	51.1	51.1	PEL-TWA, TLV-STEL, TLV-STEL, IDLH.
3324	Zirconium hydroxide	14475-63-9	8.73	17.5	17.5	87.3	PEL-TWA, TLV-STEL, TLV-STEL, IDLH.
3325	Zirconium nitrate	13746-89-9	18.6	37.2	37.2	186	PEL-TWA, TLV-STEL, TLV-STEL, IDLH.
3326	Zirconium nitride	25658-42-8	5.77	11.5	11.5	57.7	PEL-TWA, TLV-STEL, TLV-STEL, IDLH.
3327	Zirconium nitrite	z-0088	7.52	15	15	75.2	PEL-TWA, TLV-STEL, TLV-STEL, IDLH.

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Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on 60-min. AEGLs, ERPGs or TEELs (mg/m3)				Source of PACs TEEL-0, PAC-1, PAC-2, PAC-3
			TEEL-0	PAC-1	PAC-2	PAC-3	
3328	Zirconium oxide	1314-23-4	6.75	13.5	13.5	67.5	PEL-TWA, TLV-STEL, TLV-STEL, IDLH.
3329	Zirconium oxynitrate hydrate	14985-18-3	13.7	27.4	27.4	137	PEL-TWA, TLV-STEL, TLV-STEL, IDLH.
3330	Zirconium phosphide	12037-80-8	8.4	16.8	16.8	84	PEL-TWA, TLV-STEL, TLV-STEL, IDLH.
3331	Zirconium potassium fluoride; (Potassium fluorozirconate)	16923-95-8	37.3	149	150	500	PEL-TWA, TLV-STEL, TLV-STEL, IDLH.
3332	Zirconium silane	z-0089	8.08	16.2	16.2	80.8	PEL-TWA, TLV-STEL, TLV-STEL, IDLH.
3333	Zirconium silicate; (Zirconium silicon oxide; Zircon))	10101-52-7	10.3	20.5	51.3	103	PEL-TWA, TLV-STEL, TLV-STEL, IDLH.
3334	Zirconium sulfate tetrahydrate	7446-31-3	19.5	39	39	195	PEL-TWA, TLV-STEL, TLV-STEL, IDLH.
3335	Zirconyl chloride; (Zirconium oxychloride)	7699-43-6	9.76	19.5	97.6	97.6	PEL-TWA, TLV-STEL, TLV-STEL, IDLH.
3336	Zirconyl nitrate; (Bis(nitrato-O)oxozirconium)	13826-66-9	12.7	25.3	25.3	127	PEL-TWA, TLV-STEL, TLV-STEL, IDLH.
3337	Zonyl fsn fluorosurfactant	65545-80-4	60	150	500	500	Rat oral LD50.
3338	zzAcrylic latex	z-0090	10	30	50	250	
3339	zzAlumination 301	z-0091	10	30	50	250	
3340	zzHydranal coulomat / AG	z-0092	10	30	50	250	
3341	zzHydrocarbon polymer	z-0093	10	30	50	250	
3342	zzHydrocount(R), LSC cocktail	z-0094	10	30	50	250	

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Table 4: Protective Action Criteria (PAC) Rev 24A (mg/m^3)
Based on applicable 60-min. AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

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

Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font. The "Source of PACs" column is under construction.