

Table 4: Protective Action Criteria (PAC) Rev. 29 based on applicable 60-minute AEGLs, ERPGs, or TEELs. The chemicals are listed in alphabetical order and the values are presented in mg/m³. May 2016

Table 4 is an alphabetical list of the chemical substances and their corresponding PAC values in mass per unit volume (mg/m³). The conversion of ppm to mg/m³ was carried out assuming normal temperature and pressure, 25°C and 760 mm Hg.

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 name of the chemical substance submitted to the PAC development team
CASRN	The Chemical Abstracts Service Registry Number ¹ for this chemical
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

Chemicals for which **AEGLs** are available have their chemical name, CASRN, and AEGL values displayed in a **bolded and larger font**. Chemicals for which **ERPGs** are available, but not AEGLs, have their chemical name, CASRN, and ERPG values displayed in a **bolded** font. Chemicals for which TEELs are available, but no AEGLs or ERPGs, have their chemical name, CASRN, and values displayed using a regular font.

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

¹ Information on the Chemical Abstracts Service and CASRNs is provided at <https://www.cas.org/cas-home>.

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
1	Abrin	1393-62-0	6.60E-07	7.20E-06	4.30E-05
2	Acenaphthene	83-32-9	3.6	40	240
3	Acenaphthylene	208-96-8	10	110	660
4	Acetaldehyde	75-07-0	81	490	1,500
5	Acetamide	60-35-5	21	230	1,400
6	Acetanilide	103-84-4	2	22	130
7	Acetic acid	64-19-7	12	86	610
8	Acetic acid ethenyl ester, polymer with 1,1-bis(ethenyloxy) butane and ethenol	27360-07-2	30	330	2,000
9	Acetic acid, 2-propenyl ester	591-87-7	1.7	19	110
10	Acetic acid, lithium salt	546-89-4	3.2	36	210
11	Acetic acid, manganese(2+) salt, tetrahydrate	6156-78-1	13	22	740
12	Acetic acid, manganese(II) salt (2:1)	638-38-0	9.4	16	96
13	Acetic anhydride	108-24-7	2.1	63	420
14	Acetone	67-64-1	470	7,600	14,000
15	Acetone thiosemicarbazide	1752-30-3	9.1	100	600
16	Acetone-d6	666-52-4	520	8,400	15,000
17	Acetonitrile	75-05-8	22	84	250

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			PAC-1	PAC-2	PAC-3
18	Acetonitrile-d3	2206-26-0	23	90	270
19	Acetophenone	98-86-2	150	1,600	9,700
20	Acetoxytriphenylstannane	900-95-8	0.69	20	28
21	Acetyl bromide	506-96-7	0.82	9	54
22	Acetyl carbinol; (Acetol (1); 1-Hydroxy-2-propanone)	116-09-6	6.6	73	440
23	Acetyl chloride	75-36-5	2.7	30	180
24	Acetyl triethyl citrate	77-89-4	5.2	57	1,400
25	Acetylaminofluorene, 2-	53-96-3	1.2	14	480
26	Acetylaminofluorenone, 2-	3096-50-2	12	130	790
27	Acetylene	74-86-2	69,000	2.40E+05	4.30E+05
28	Acrolein	107-02-8	0.069	0.23	3.2
29	Acrylamide	79-06-1	0.09	44	100
30	Acrylamide, N,N'-methylenebisacrylamide copolymer	25034-58-6	30	330	2,000
31	Acrylic acid	79-10-7	4.4	140	530
32	Acrylonitrile	107-13-1	0.34	3.7	61
33	Acrylyl chloride; (Acryloyl chloride)	814-68-6	0.082	0.9	3.2
34	Adamsite; (Phenarsazine chloride)	578-94-9	0.016	2.6	6.4

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			PAC-1	PAC-2	PAC-3
35	Adipic acid, diethylene glycol, trimethylolpropane, phthalic anhydride, toluenediisocyanate polymer, isocyanate terminated	68609-57-4	30	330	2,000
36	Adiponitrile	111-69-3	1.5	17	36
37	Aerosol, A-102; (Poly(oxy-1,2-ethanediyl), alpha-(3-carboxy-1-oxo-3-sulfopropyl)-omega-(dodecyloxy)-, disodium salt)	39354-45-5	92	1,000	6,100
38	Agent GB; (Sarin, Isopropyl methanefluoro-phosphonate)	107-44-8	0.0027	0.034	0.13
39	Agent GD; (Soman; 3,3-Dimethyl-2-butyl methylphosphonofluoridate)	96-64-0	0.0013	0.016	0.13
40	Agent GF; (Methyl cyclohexylfluorophosphonate)	329-99-7	0.0015	0.018	0.13
41	Agent VX; (Ethyl-S-dimethylaminoethyl methylphosphonothiolate)	50782-69-9	1.70E-04	0.003	0.0099
42	Alamine 336	68814-95-9	17	180	1,100
43	Alcohols, C6-C12 (N.O.S.)	68603-15-6	30	330	2,000
44	Aldicarb; (Carbanolate; Methyl-2-(methylthio)propionaldehyde-O-(methylcarbamoyl)oxime, 2-)	116-06-3	0.027	0.3	1.8
45	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	0.91	10	100
46	Aldrithiol-2; (2,2'-Dithiodipyridine)	2127-03-9	30	330	2,000
47	Aliquat 336; (Adogen 464; Quaternary ammonium compounds, tri(C8-10)-alkylmethyl-, chlorides)	63393-96-4	2.3	25	150
48	Alizarin; (1,2-Dihydroxyanthraquinone; Turkey red oil)	72-48-0	0.49	5.4	32
49	Alizarine Red S, Monohydrate; (Sodium alizarin-3-sulfonate)	130-22-3	0.23	2.5	15
50	Alkanes, C4-C12	68333-81-3	1,100	1,800	23,000
51	Alkenyl dimethylethyl ammonium bromide; (Aliphatic hydrocarbon)	z-0108	1.5	17	99

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			PAC-1	PAC-2	PAC-3
52	Alkyl benzenes (C8-C9)	z-0109	30	330	2,000
53	Alkyl dimethylbenzyl ammonium chloride; (Benzalkonium chloride)	8001-54-5	0.91	10	60
54	Alkylamines	63231-48-1	30	330	2,000
55	Alkylbenzene (C10-C16)	68648-87-3	2.3	26	150
56	Alkylbenzyl dimethyl ammonium chloride, (C12-C18)	68391-01-5	0.61	6.8	60
57	Allene; (1,2-Propadiene)	463-49-0	380	4,100	25,000
58	Allyl 2-chloroethyl sulfide	19155-35-2	0.034	0.38	2.3
59	Allyl alcohol	107-18-6	0.21	4	31
60	Allyl bromide; (3-Bromopropene)	106-95-6	0.99	58	350
61	Allyl chloride	107-05-1	8.8	170	440
62	Allyl chloroformate	2937-50-0	0.31	3.4	10
63	Allyl isothiocyanate; (Mustard oil)	57-06-7	4.1	11	67
64	Allylamine	107-11-9	0.98	7.7	42
65	Allylmagnesium bromide	1730-25-2	30	330	2,000
66	Allyltrichlorosilane	107-37-9	4.3	52	240
67	Alpha, alpha, 4-trimethyl-3-cyclohexene-1-methanol, (S)-; (alpha-Terpineol)	10482-56-1	59	650	1,000
68	Alpha-hydroxybenzeneacetic acid, (+-)-; (DL-mandelic acid)	611-72-3	25	270	1,600

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69	Aluminum acetate, basic	7360-44-3	27	290	1,800
70	Aluminum carbide	1299-86-1	4	43	260
71	Aluminum chloride	7446-70-0	30	60	360
72	Aluminum chloride hexahydrate	7784-13-6	54	110	650
73	Aluminum fluoride	7784-18-1	19	59	360
74	Aluminum grey LB; (Acid black 60)	12218-95-0	30	330	2,000
75	Aluminum hexafluorosilicate	17099-70-6	11	120	700
76	Aluminum hydroxide	21645-51-2	8.7	73	440
77	Aluminum oxide hydrate	1333-84-2	15	130	780
78	Aluminum oxide; (Alumina)	1344-28-1	15	170	990
79	Aluminum phosphate; (Phosphoric acid, aluminum salt (1:1), solution)	7784-30-7	14	200	1,200
80	Aluminum phosphide	20859-73-8	3	4.7	8.5
81	Aluminum potassium sulfate, dodecahydrate	7784-24-9	110	1,200	6,900
82	Aluminum sulfate	10043-01-3	38	64	380
83	Aluminum tris(dihydrogen phosphate); (Phosphoric acid, aluminum salt (3:1))	13530-50-2	3	33	200
84	Aluminum yellow 4A; (Acid yellow 99)	10343-58-5	30	330	2,000
85	Aluminum(III) isopropylate	555-31-7	23	370	2,200

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			PAC-1	PAC-2	PAC-3
86	Aluminum(III) nitrate (1:3)	13473-90-0	47	68	410
87	Aluminum(III) nitrate nonahydrate (1:3:9)	7784-27-2	83	920	5,500
88	Aluminum(III) silicate (2:1); (Kyanite; Oil-dri)	1302-76-7	3	33	200
89	Amino-1,3-naphthalenedisulfonic acid, 7-	86-65-7	30	330	2,000
90	Amino-1-propanol, 3-	156-87-6	8.3	91	550
91	Amino-2-methyl-2-propanol, 1-	2854-16-2	4.3	47	280
92	Amino-4,6-dinitrotoluene, 2-	35572-78-2	4.2	46	280
93	Aminoacetaldehyde diethyl acetal; (2,2-Diethoxyethylamine)	645-36-3	12	130	790
94	Aminoacetaldehyde dimethyl acetal; (2,2-Dimethoxyethylamine)	22483-09-6	30	330	2,000
95	Aminoanthraquinone, 2-	117-79-3	9	99	590
96	Aminobenzoic acid, p-	150-13-0	15	69	410
97	Aminobutyl)diethoxymethylsilane, (4-	3037-72-7	4.1	45	1,300
98	Aminodiphenyl, p-	92-67-1	1.5	17	99
99	Aminoethoxy)ethanol, 2-(2-	929-06-6	9	99	590
100	Aminoethyl)diphenylboronic acid, o-(2-; (Diphenylboronic acid, ethanolamine ester)	524-95-8	0.18	2	12
101	Aminoethylethanolamine	111-41-1	9	99	590
102	Aminoethylpiperazine, N-	140-31-8	6.4	71	420

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			PAC-1	PAC-2	PAC-3
103	Aminoheptane, 3-; (3-Heptylamine)	28292-42-4	0.23	2.5	15
104	Aminoiminomethyl)urea sulfate(2:1), (591-01-5	30	330	2,000
105	Aminophenol, 2-; (Aminophenol, o-)	95-55-6	2.9	31	190
106	Aminophenol, m-	591-27-5	3	33	200
107	Aminopropiophenone, 4-	70-69-9	0.51	5.6	35
108	Aminopropylmethyldiethoxysilane, 3-	3179-76-8	13	140	860
109	Aminopropyltriethoxysilane; (3-(Triethoxysilyl)-1-propanamine)	919-30-2	1.9	21	350
110	Aminopyrazine, 2-	5049-61-6	5.8	6.6	39
111	Aminopyridine, 2-	504-29-0	5.8	6.6	40
112	Aminopyridine, 4-; (4-Pyridinamine)	504-24-5	1.8	20	40
113	Amiton oxalate	3734-97-2	0.009	0.099	0.59
114	Amiton; (O,O-Diethyl-S-(2-diethylaminoethyl) thiophosphate)	78-53-5	0.0099	0.11	0.65
115	Amitrole	61-82-5	0.6	23	220
116	Ammonia	7664-41-7	21	110	770
117	Ammonia-d3	13550-49-7	25	130	900
118	Ammonium acetate	631-61-8	3.8	42	250
119	Ammonium aluminum fluoride; (Triammonium hexafluoroaluminate)	7784-19-2	13	140	860

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			PAC-1	PAC-2	PAC-3
120	Ammonium benzoate	1863-63-4	2.5	27	160
121	Ammonium bicarbonate	1066-33-7	4.7	52	310
122	Ammonium bisulfate; (Ammonium hydrogen sulfate)	7803-63-6	0.012	0.13	0.78
123	Ammonium bisulfite; (Ammonium hydrogen sulfite)	10192-30-0	30	330	2,000
124	Ammonium bromide	12124-97-9	8.1	89	530
125	Ammonium carbamate; (Carbamic acid, ammonium salt)	1111-78-0	0.23	2.6	15
126	Ammonium carbonate	506-87-6	0.31	3.5	21
127	Ammonium chloride	12125-02-9	20	54	330
128	Ammonium chromate	7788-98-9	0.44	7.7	46
129	Ammonium citrate; (includes dibasic (3458-72-8), and tribasic (3012-65-5))	7632-50-0	1.1	12	72
130	Ammonium dichromate	7789-09-5	0.37	6.3	38
131	Ammonium dihydrogen phosphate; (Monoammonium phosphate)	7722-76-1	17	190	1,100
132	Ammonium ferrous sulfate hexahydrate	7783-85-9	9.6	110	640
133	Ammonium fluoborate	13826-83-0	10	120	690
134	Ammonium fluoride	12125-01-8	15	160	980
135	Ammonium formate	540-69-2	3.7	41	240
136	Ammonium hexachlorohydrate (III)	z-0001	120	1,300	7,900

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			PAC-1	PAC-2	PAC-3
137	Ammonium hexafluorosilicate; (Ammonium silicofluoride)	16919-19-0	12	130	780
138	Ammonium hydrogen fluoride; (Ammonium bifluoride)	1341-49-7	11	130	750
139	Ammonium hydrogen oxalate hemihydrate	37541-72-3	30	330	2,000
140	Ammonium hydroxide	1336-21-6	87	470	3,300
141	Ammonium iodide	12027-06-4	0.2	2.2	13
142	Ammonium lactate	515-98-0	30	330	2,000
143	Ammonium lignin sulfonate	8061-53-8	30	330	2,000
144	Ammonium molybdate(VI) tetrahydrate	12054-85-2	2.8	30	180
145	Ammonium molybdate; (Diammonium molybdate)	13106-76-8	3.1	22	130
146	Ammonium molybdophosphate	12026-66-3	2.4	27	160
147	Ammonium nickel sulfate	15699-18-0	1.5	13	79
148	Ammonium nitrate	6484-52-2	6.7	73	440
149	Ammonium oxalate monohydrate	5972-73-6	30	330	2,000
150	Ammonium oxalate; (Diammonium oxalate monohydrate)	6009-70-7	30	330	2,000
151	Ammonium pentaborate	12007-89-5	30	330	2,000
152	Ammonium perchlorate	7790-98-9	4.6	50	830
153	Ammonium permanganate	13446-10-1	7.5	12	72

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			PAC-1	PAC-2	PAC-3
154	Ammonium peroxydisulfate	7727-54-0	0.3	22	130
155	Ammonium phosphate dibasic; (Diammonium phosphate)	7783-28-0	20	210	1,300
156	Ammonium picrate	131-74-8	30	330	2,000
157	Ammonium polyacrylate	9003-03-6	30	330	2,000
158	Ammonium sulfamate	7773-06-0	30	98	5,000
159	Ammonium sulfate	7783-20-2	13	140	840
160	Ammonium sulfite	10196-04-0	30	330	2,000
161	Ammonium sulfite monohydrate	7783-11-1	30	330	2,000
162	Ammonium tartrate; (Butanedioic acid, 2,3-dihydroxy-(2R,3R)-, ammonium salt)	14307-43-8	30	330	2,000
163	Ammonium tartrate; (Diammonium tartrate)	3164-29-2	0.8	8.8	53
164	Ammonium thiocyanate	1762-95-4	2.3	25	150
165	Ammonium thiosulfate; (Ammonium hyposulfite)	7783-18-8	12	130	790
166	Ammonium tungstate(VI)	11120-25-5	4.1	45	270
167	Ammonium vanadate; (Ammonium vanadium oxide; Ammonium metavanadate)	7803-55-6	0.01	0.11	80
168	Ammonium, hexadecyltrimethyl-, bromide; (Hexadecyltrimethylammonium bromide)	57-09-0	1.2	14	81
169	Ammonium, tetraethyl-, bromide; (Tetraethyl ammonium bromide)	71-91-0	1.1	12	43
170	Ammonium, tetramethyl-, bromide; (Tetramethylammonium bromide)	64-20-0	0.15	1.7	9.9

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			PAC-1	PAC-2	PAC-3
171	Amyl acetate	628-63-7	530	3,500	21,000
172	Amyl methyl ether, tert-; (TAME)	994-05-8	250	490	720
173	Amylamine, n-; (1-Pentylamine)	110-58-7	0.3	3.3	20
174	Amyltrichlorosilane; (Pentyltrichlorosilane)	107-72-2	5	61	280
175	Anhydrone; (Magnesium perchlorate)	10034-81-8	4.9	54	320
176	Aniline	62-53-3	30	46	76
177	Anisidine, o-	90-04-0	1.5	8.3	50
178	Anisidine, p-	104-94-9	1.5	8.3	50
179	Anisole; (Anisole anhydrous; Methoxybenzene)	100-66-3	1.6	18	110
180	Anthracene	120-12-7	48	530	3,200
181	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	4.8	52	310
182	Anthranilic acid	118-92-3	16	180	1,100
183	Anthraquinone	84-65-1	12	130	790
184	Antimony	7440-36-0	1.5	13	80
185	Antimony hydroxide	39349-74-1	2.1	18	110
186	Antimony trioxide	1309-64-4	1.8	16	96
187	Antimony pentachloride	7647-18-9	3.7	33	200

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			PAC-1	PAC-2	PAC-3
188	Antimony pentafluoride	7783-70-2	2.7	23	140
189	Antimony pentasulfide	1315-04-4	2.5	22	130
190	Antimony potassium tartrate trihydrate	28300-74-5	4.1	37	220
191	Antimony trichloride; (Antimony(III) chloride)	10025-91-9	2.8	25	150
192	Antimony trifluoride	7783-56-4	2.2	20	120
193	Antimycin A	1397-94-0	0.16	1.8	5.5
194	Antioxidant G-16 (most toxic antioxidant)	61373-87-3	0.98	11	65
195	Aqua regia (75% hydrochloric + 25% nitric acid)	8007-56-5	7.3	89	410
196	Argon	7440-37-1	1.10E+05	3.80E+05	6.50E+05
197	Aromatic isocyanate mixture "SWD 305A"	z-0111	0.15	3.6	22
198	Arsenic	7440-38-2	1.5	17	100
199	Arsenic acid; (o-Arsenic acid) Includes CASRN 1327-52-2	7778-39-4	2.9	32	190
200	Arsenic pentoxide	1303-28-2	0.73	8	150
201	Arsenic trioxide	1327-53-3	0.27	3.0	9.1
202	Arsenous acid	13464-58-9	2.6	28	170
203	Arsenous trichloride	7784-34-1	0.91	10	240
204	Arsine	7784-42-1	0.049	0.54	1.6

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			PAC-1	PAC-2	PAC-3
205	Asbestos, includes: (Amosite, 12172-73-5, Ascarite, 81133-20-2, Chrysotile, 1332-21-4)	1332-21-4	0.05	0.55	3.3
206	Ascaridole	512-85-6	0.6	6.6	40
207	Auramine; (4,4'-(Imidocarbonyl)bis(N,N-dimethylamine) monohydrochloride)	2465-27-2	0.81	8.9	53
208	Azinphos ethyl; (Ethyl guthion)	2642-71-9	0.35	3.9	17
209	Azinphos methyl; (Guthion)	86-50-0	0.6	0.7	20
210	Aziridine homopolymer; (Ethylenimine homopolymer; Poly(ethyleneimine))	9002-98-6	4.1	45	270
211	Azobis(2-methylpropionitrile), 2,2'-	78-67-1	4.1	45	130
212	Azodicarbamide; (Azodicarbonamide)	123-77-3	2.6	29	170
213	Barium	7440-39-3	1.5	180	1,100
214	Barium acetate; (Barium acetate anhydrous)	543-80-6	2.8	330	2,000
215	Barium carbonate	513-77-9	2.2	270	1,600
216	Barium chloride	10361-37-2	2.3	280	1,700
217	Barium chloride dihydrate	10326-27-9	2.7	330	2,000
218	Barium chromate	10294-40-3	0.15	13	77
219	Barium cyanide	542-62-1	44	60	360
220	Barium dioxide; (Barium peroxide)	1304-29-6	1.8	230	1,400
221	Barium diphenylamine sulfonate	6211-24-1	6.9	850	5,100

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
222	Barium fluoride	7787-32-8	1.9	230	1,400
223	Barium hydrogen phosphate; (Barium phosphate dibasic)	10048-98-3	2.5	320	1,900
224	Barium hydroxide	17194-00-2	1.9	230	1,400
225	Barium hydroxide octahydrate	12230-71-6	3.4	420	2,500
226	Barium metaborate	13701-59-2	2.4	300	1,800
227	Barium nitrate	10022-31-8	2.9	350	2,100
228	Barium nitrite	13465-94-6	2.5	300	1,800
229	Barium oxide	1304-28-5	1.7	200	1,200
230	Barium permanganate	7787-36-2	20	34	200
231	Barium phosphate	13466-20-1	3	30	150
232	Barium stearate	6865-35-6	7.5	83	500
233	Barium sulfate	7727-43-7	15	170	990
234	Basic Green 4; (Aizen malachite green)	569-64-2	0.13	1.4	8.7
235	Benz(e)acephenanthrylene; (Benzo(b)fluoroanthene)	205-99-2	0.12	1.3	7.9
236	Benzal chloride	98-87-3	0.21	2.3	14
237	Benzaldehyde	100-52-7	17	43	260
238	Benzamide	55-21-0	4.7	52	310

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
239	Benzenamine, sulfate (2:1)	542-16-5	30	330	2,000
240	Benzene	71-43-2	170	2,600	13,000
241	Benzene, 1-(chloromethyl)-4-nitro-; (p-Nitrobenzyl chloride)	100-14-1	2.5	28	360
242	Benzenearsonic acid; (Phenylarsonic acid)	98-05-5	0.025	0.27	13
243	Benzene-d ₆ ; (Deuterated benzene)	1076-43-3	180	2,800	14,000
244	Benzenesulfonic acid chloride; (Benzenesulfonyl chloride)	98-09-9	0.77	8.4	51
245	Benzenesulfonic acid, 4-chloro	98-66-8	1.5	17	99
246	Benzenesulfonic acid, 5-chloro-2	z-0114	1.5	17	99
247	Benzenetetracarboxylic dianhydride, 1,2,4,5-	89-32-7	6.8	74	450
248	Benzidine	92-87-5	0.93	10	61
249	Benzo(a)anthracene	56-55-3	0.6	120	700
250	Benzo(a)pyrene; (Coal tar pitch volatiles)	50-32-8	0.6	120	700
251	Benzo(ghi)perylene	191-24-2	30	330	2,000
252	Benzo-4,7,13,16,21,24-hexaoxa-1,10-diazabicyclo(8.8.8)hexacosane, 5,6-	31250-18-7	12	130	790
253	Benzoic acid	65-85-0	13	140	830
254	Benzoic acid, sodium salt	532-32-1	61	680	810
255	Benzoin oxime	441-38-3	0.49	5.4	32

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
256	Benzonitrile	100-47-0	2.4	26	80
257	Benzophenone	119-61-9	1.5	90	310
258	Benzoquinone, p-; (Quinone)	106-51-4	1.3	50	300
259	Benzothiazole	95-16-9	2.8	30	75
260	Benzotriazole	95-14-7	1.2	13	77
261	Benzotrifluoride	98-08-8	19	220	1,300
262	Benzoyl chloride	98-88-4	1.7	29	110
263	Benzoyl peroxide	94-36-0	15	1,200	7,000
264	Benzyl acetate	140-11-4	180	2,000	12,000
265	Benzyl alcohol	100-51-6	130	230	3,300
266	Benzyl aminopurine, 6-; (6-Benzyladenine)	1214-39-7	3.5	38	230
267	Benzyl benzoate	120-51-4	5.7	63	380
268	Benzyl chloride	100-44-7	5.2	52	260
269	Benzyl chloroformate; (Carbobenzoxy chloride)	501-53-1	0.62	6.8	20
270	Benzyl cyanide; (Phenylacetonitrile)	140-29-4	0.39	4.3	15
271	Benzyl trichloride; (Trichloromethylbenzene)	98-07-7	0.064	0.7	5.3
272	Benzylamine	100-46-9	2	22	130

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
273	Benzyl dimethylamine; (Dimethylbenzylamine, N,N-; BDMA)	103-83-3	0.62	6.8	41
274	Benzyl dimethyloctadecylammonium chloride; (Dimethyloctadecylbenzylammonium chloride)	122-19-0	3.8	41	250
275	Benzylmagnesium chloride	6921-34-2	1.2	13	79
276	Beryllium	7440-41-7	0.0023	0.025	0.1
277	Beryllium chloride	7787-47-5	0.02	0.22	0.89
278	Beryllium fluoride	7787-49-7	0.012	0.13	0.52
279	Beryllium hydroxide	13327-32-7	0.011	0.12	0.48
280	Beryllium nitrate	13597-99-4	0.047	0.52	2.1
281	Beryllium oxide	1304-56-9	0.0063	0.069	0.28
282	Bicyclo(2.2.1)heptane-2-carbonitrile, 5-chloro-6-(((methylamino)carbonyloxy)imino)-, (1S-(1-alpha,2-beta,4-alpha,5-alpha,6E))-; (Tranid)	15271-41-7	0.057	0.63	3.8
283	Bioxirane, 2,2'-; (1,2:3,4-Diepoxybutane)	1464-53-5	0.32	3.5	14
284	Biphenyl: (Diphenyl)	92-52-4	5.5	61	1,900
285	Biphenylol, 4-	92-69-3	0.49	5.4	32
286	Biphenylol, sodium salt, 2-	132-27-4	5	54	330
287	Bis(1-methylethyl)benzene, 1,4-; (p- or 1,4-Diisopropylbenzene)	100-18-5	2.7	30	180
288	Bis(1-methylethyl)benzene; (Diisopropylbenzene)	25321-09-9	3.4	38	230
289	Bis(2,3-epoxypropoxy) butane, 1,4-	2425-79-8	16	170	220

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
290	Bis(2-butoxyethyl) ether; (Dibutyl carbitol; Diethylene glycol dibutyl ether)	112-73-2	22	250	770
291	Bis(2-chlorethylthioethyl) ether; (2,2'-Di(3-chloroethylthio)diethyl ether)	63918-89-8	0.12	1.3	7.6
292	Bis(2-chloroethoxy)ethane, 1,2-; (Triglycol dichloride)	112-26-5	0.75	8.3	50
293	Bis(2-chloroethyl)sulfide; (HD; Sulfur mustard)	505-60-2	0.065	0.13	2.1
294	Bis(2-chloroethylthio)ethane, 1,2-; (Sesquimustard)	3563-36-8	0.09	0.18	2.9
295	Bis(2-chloroethylthio)methane	63869-13-6	0.08	0.17	2.7
296	Bis(2-chloroethylthio)-n-butane, 1,4-	142868-93-7	0.1	0.2	3.2
297	Bis(2-chloroethylthio)-n-pentane, 1,5-	142868-94-8	0.11	0.21	3.4
298	Bis(2-chloroethylthio)-n-propane, 1,3-	63905-10-2	0.1	0.19	3
299	Bis(2-chloroethylthiomethyl)ether	63918-90-1	0.1	0.2	3.1
300	Bis(2-ethoxyethyl) ether; (Diethyl carbitol)	112-36-7	15	160	980
301	Bis(2-ethylhexyl) hydrogen phosphate	298-07-7	15	160	980
302	Bis(2-ethylhexyl) phenyl phosphate	16368-97-1	0.27	2.9	17
303	Bis(2-hydroxyethyl)dodecanamide, N,N-	120-40-1	1.5	16	530
304	Bis(2-methylstyryl)benzene, 4-; (1,4-Bis(2-(2-methylphenyl)ethenyl)benzene)	13280-61-0	12	130	790
305	Bis(3-tert-butyl-4-hydroxy-6-methylphenyl) sulfide; (4,4'-Thiobis(6-tert-butyl-m-cresol))	96-69-5	3	82	460
306	Bis(chloromethyl)ketone; (1,3-Dichloroacetone)	534-07-6	0.025	0.27	1

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
307	Bis(chloromethyl)oxetane, 3,3-	78-71-7	0.18	2	12
308	Bis(dimethylamino)acridine, 3,6-; (Acridine orange)	494-38-2	1.2	13	79
309	Bis(trifluoromethyl)benzene, 1,3-	402-31-3	14	160	940
310	Bis(tris(hydroxymethyl)methylamino)propane, 1,3-; (Bis-tris propane)	64431-96-5	30	330	2,000
311	Bis[(benzo-15-crown-5)-15-ylmethyl] pimelate	69271-98-3	30	330	2,000
312	Bisbutenylenetetrahydrofurfural; (2,3,4,5-Bis(2-butylene)tetrahydro-2-furaldehyde)	126-15-8	7.5	83	500
313	Bismuth	7440-69-9	15	170	990
314	Bismuth acetate	22306-37-2	30	330	2,000
315	Bismuth germanate	12233-73-7	21	240	1,400
316	Bismuth hydroxide	10361-43-0	19	210	1,200
317	Bismuth iodide	7787-64-6	1.2	13	79
318	Bismuth nitrate	10361-44-1	12	130	790
319	Bismuth oxide	1304-76-3	15	170	990
320	Bismuth oxychloride; (Bismuth chloride oxide)	7787-59-9	66	730	4,400
321	Bismuth(III) nitrate, pentahydrate	10035-06-0	12	130	800
322	Bisphenol A diglycidyl ether	1675-54-3	39	430	2,600
323	Bisphenol A; (4,4'-Isopropylidenediphenol)	80-05-7	15	110	650

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
324	Bitoscanate; (1,4-Phenylenediisothiocyanic acid)	4044-65-9	1.8	20	25
325	BoBCalix; (Calix[4]arene-bis(t-octylbenzo-crown-b))	z-0110	30	330	2,000
326	Borane methyl sulfide complex; (Methyl sulfide complex with borane (1:1))	13292-87-0	0.093	1	6.2
327	Borane-tetrahydrofuran	14044-65-6	12	130	790
328	Borate	14213-97-9	6	66	400
329	Boric acid	10043-35-3	6	23	830
330	Boric acid, tributyl ester; (Tri-n-butyl borate)	688-74-4	3.5	39	230
331	Boron	7440-42-8	1.9	21	130
332	Boron carbide	12069-32-8	2.4	27	170
333	Boron oxide	1303-86-2	30	100	620
334	Boron tribromide	10294-33-4	3.4	130	410
335	Boron trichloride	10294-34-5	0.91	10	340
336	Boron trifluoride	7637-07-2	2.5	29	88
337	Boron trifluoride dihydrate	13319-75-0	3.8	44	140
338	Boron trifluoride etherate	109-63-7	2.5	29	88
339	Boron trifluoride-dimethyl ether	353-42-4	2.5	29	88
340	Botulinum toxin-A; (includes Type B (93384-44-2) and Type F (107231-15-2))	93384-43-1	3.30E-09	3.60E-08	2.20E-07

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
341	Brij-35; (alpha-Dodecyl-omega-hydroxypoly(oxyethylene))	9002-92-0	2.9	31	200
342	Brilliant blue; (Acid blue 9)	2650-18-2	30	330	2,000
343	Bromadiolone	28772-56-7	0.091	1	3.4
344	Bromine	7726-95-6	0.22	1.6	56
345	Bromine chloride	13863-41-7	0.35	3.9	12
346	Bromine pentafluoride	7789-30-2	0.11	1.2	240
347	Bromine trifluoride	7787-71-5	0.67	11	120
348	Bromo acetic acid, methyl ester	96-32-2	0.069	0.76	4.6
349	Bromo-1-chloro-5,5-dimethylhydantoin, 3-; (Bromo-1-chloro-5,5-dimethyl-2,4-imidazolidinedione, 3-)	126-06-7	1.3	14	83
350	Bromo-2-chloro-1,1,2-trifluoroethane, 1-; (1,1,2-Trifluoro-1-bromo-2-chloroethane)	354-06-3	62	680	4,100
351	Bromo-3-chloro-5,5-dimethylhydantoin, 1-; (1-Bromo-3-chloro-5,5-dimethyl-2,4-imidazolidinedione)	16079-88-2	4.2	46	280
352	Bromo-3-methylbutane, 1-	107-82-4	37	410	2,400
353	Bromoacetaldehyde diethyl acetal	2032-35-1	12	130	790
354	Bromoacetic acid	79-08-3	0.023	0.26	1.5
355	Bromoacetone	598-31-2	0.062	1.8	5.5
356	Bromoanisole, 3-; (1-Bromo-3-methoxybenzene)	2398-37-0	30	330	2,000
357	Bromobenzene; (Phenyl bromide)	108-86-1	6.1	68	1,500

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
358	Bromochlorobenzene, m-	108-37-2	12	130	790
359	Bromochlorobenzene, p-	106-39-8	12	130	790
360	Bromochloromethane	74-97-5	3,200	4,300	26,000
361	Bromocresol green; (Phenol, 4,4'-(1,1-dioxido-3H-2,1-benzoxathiol-3-ylidene)bis[2,6-dibromo-3-methyl-])	76-60-8	13	140	840
362	Bromocresol purple; (Phenol, 4,4'-(1,1-dioxido-3H-2,1-benzoxathiol-3-ylidene)bis[2-bromo-6-methyl-])	115-40-2	10	110	660
363	Bromocyclohexanol, cis-2-	16536-57-5	0.27	2	70
364	Bromodecane, 1-	112-29-8	2.2	24	150
365	Bromodichloromethane	75-27-4	1.3	14	85
366	Bromododecane, 1-	143-15-7	12	130	790
367	Bromoethane; (Ethyl bromide)	74-96-4	67	1,600	16,000
368	Bromoethanol, 2-; (Ethylene bromohydrin)	540-51-2	0.06	0.66	23
369	Bromoethylmagnesium	925-90-6	1.2	13	79
370	Bromofluorobenzene, 4-; (p-Fluorobromobenzene)	460-00-4	12	130	790
371	Bromoform; (Tribromomethane)	75-25-2	15	71	420
372	Bromohexane; (n-Hexyl bromide)	111-25-1	120	1,300	7,600
373	Bromomesitylene, 2-; (2-Bromo-1,3,5-trimethylbenzene)	576-83-0	30	330	2,000
374	Bromomethyl-1,3-dioxolane, 2-	4360-63-8	12	130	790

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
375	Bromonaphthalene	90-11-9	2.4	27	160
376	Bromonitromethane	563-70-2	0.4	4.4	26
377	Bromooctane , 1-; (Octyl bromide)	111-83-1	15	170	990
378	Bromophenol blue; (Phenol, 4,4'-(3H-2,1-benzoxathiol-3-ylidene)bis(2,6-dibromo-, S,S-dioxide))	115-39-9	30	330	2,000
379	Bromophenyl phenyl ether, 4-	101-55-3	0.33	3.6	21
380	Bromopropane, 1-	106-94-5	1.5	590	3,500
381	Bromopropane, 2-	75-26-3	600	6,600	6,900
382	Bromopyrene, 3-	1714-29-0	30	330	2,000
383	Bromosuccinimide, N-	128-08-5	1.1	12	73
384	Bromothymol blue; (Dibromothymolsulfonphthalein)	76-59-5	30	330	2,000
385	Bromotoluene, A-; (Benzyl bromide)	100-39-0	0.41	4.5	27
386	Bromotrichloromethane	75-62-7	0.71	7.9	47
387	Bromotrifluoroethylene	598-73-2	22	1,500	9,200
388	Bromotrifluoromethane; (Trifluorobromomethane)	75-63-8	18,000	26,000	2.40E+05
389	Bromotrimethylsilane; (Trimethylsilyl bromide)	2857-97-8	1.2	13	79
390	Brucine; (2,3-Dimethoxystrychnine)	357-57-3	0.29	3.2	36
391	Butadiene, 1,3-	106-99-0	1,500	12,000	49,000

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
392	Butanaminium, N,N,N-tributyl-1-, bromide; (Tetrabutylammonium bromide)	1643-19-2	30	330	2,000
393	Butane	106-97-8	13,000	40,000	1.30E+05
394	Butanedioic acid, diethyl ester; (Succinic acid, diethyl ester)	123-25-1	26	280	1,700
395	Butanedioic acid, dimethyl ester; (Succinic acid, dimethyl ester)	106-65-0	15	170	990
396	Butanediol dinitrate, 1,4-	3457-91-8	0.12	1.5	590
397	Butanediol, 1,3-	107-88-0	120	1,300	4,500
398	Butanediol, 1,4-; (1,4-Tetramethylene glycol)	110-63-4	4.7	52	640
399	Butanedione, 2,3-; (Diacetyl)	431-03-8	0.02	120	310
400	Butanenitrile; (Butyronitrile)	109-74-0	2.1	24	140
401	Butanephosphonic acid	3321-64-0	9.6	110	630
402	Butanethiol; (n-Butyl mercaptan)	109-79-5	16	180	9,200
403	Butanoic acid, butyl ester; (n-Butyl n-butanoate)	109-21-7	14	150	910
404	Butanol, aluminum salt, 2-	2269-22-9	55	590	3,600
405	Butanol-d10, n-	34193-38-9	210	2,800	28,000
406	Butanone oxime; (Ethyl methyl ketoxime)	96-29-7	110	200	880
407	Butanone, 2-; (Methyl ethyl ketone; MEK)	78-93-3	590	8,000	12,000
408	Butene, 1-; (Butylene)	106-98-9	1,700	6,700	40,000

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
409	Butene, 2-	107-01-7	1,700	2,500	15,000
410	Butene, cis-2-; (cis-1,2-Dimethylethylene)	590-18-1	1,700	5,100	30,000
411	Butene, trans-2-; (trans-1,2-Dimethylethylene)	624-64-6	1,700	5,500	33,000
412	Butoxyethanol acetate, 2-; (Ethylene glycol monobutyl ether acetate)	112-07-2	98	230	1,400
413	Butoxyethanol phosphate, 2-	78-51-3	9	99	590
414	Butoxyethanol, 2-; (Glycol ether EB)	111-76-2	290	570	3,400
415	Butoxyethoxy)ethanol, 2-(2-; (Diethylene glycol monobutyl ether)	112-34-5	200	220	1,300
416	Butoxyethoxy)ethyl thiocyanate, 2-(2-	112-56-1	0.19	2.1	12
417	Butoxypolypropylene glycol	9003-13-8	27	300	1,800
418	Butyl acetate, n-	123-86-4	24	950	14,000
419	Butyl acetate, sec-	105-46-4	2,800	7,800	47,000
420	Butyl acetate, tert-	540-88-5	2,800	7,800	47,000
421	Butyl acetoacetate, tert-	1694-31-1	15	170	990
422	Butyl acrylate, n-	141-32-2	43	680	2,500
423	Butyl alcohol, n-; (n-Butanol)	71-36-3	180	2,400	24,000
424	Butyl alcohol, sec-; (2-Butanol)	78-92-2	450	650	30,000
425	Butyl alcohol, tert; (tert-Butanol)	75-65-0	450	4,000	24,000

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
426	Butyl bis(2-ethylhexyl)phosphate	z-0002	15	170	970
427	Butyl bromide, n-; (1-Bromobutane)	109-65-9	25	270	1,600
428	Butyl chloroformate, n-	592-34-7	3.3	12	37
429	Butyl chloroformate, sec-	17462-58-7	1.1	12	37
430	Butyl ether, n-; (Dibutyl ether)	142-96-1	14	150	910
431	Butyl glycidyl ether, n-	2426-08-6	48	3,200	19,000
432	Butyl isocyanate, n-	111-36-4	0.041	0.34	1
433	Butyl isocyanate, tert-	1609-86-5	0.04	0.44	2.6
434	Butyl levulinate	2052-15-5	15	170	990
435	Butyl lithium	109-72-8	30	330	2,000
436	Butyl methyl-d3 ether, tert-	29366-08-3	190	2,100	20,000
437	Butyl perbenzoate, tert-	614-45-9	8.2	90	200
438	Butyl propanoate; (Propanoic acid, butyl ester)	590-01-2	34	370	990
439	Butyl-2-methylcyclopropane, T-1-	38851-70-6	30	330	2,000
440	Butyl-3-iodo-2-propynylcarbamate	55406-53-6	3.3	36	220
441	Butylamine, n-	109-73-9	18	150	900
442	Butylamine, sec-; (includes 513-49-5)	13952-84-6	18	30	93

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
443	Butylamine, tert-	75-64-9	2.5	28	170
444	Butylbenzene, n-; (1-Phenylbutane)	104-51-8	20	220	1,300
445	Butylbenzene, sec-; (2-Phenylbutane)	135-98-8	6.7	74	440
446	Butylbenzene, tert-	98-06-6	9.1	100	600
447	Butylcyclohexane; (1-Cyclohexylbutane)	1678-93-9	120	1,300	7,900
448	Butylcyclohexanone, p-tert-	98-53-3	15	170	990
449	Butylene carbonate; (1,2-Butanediol, cyclic carbonate)	4437-85-8	15	170	990
450	Butyllithium, sec-	598-30-1	290	3,100	19,000
451	Butylpyrocatechol, 4-tert-; (4-tert-Butylcatechol)	98-29-3	0.18	2	560
452	Butyltrichlorosilane	7521-80-4	4.7	57	260
453	Butyne-1,4-diol, 2-; (1,4-Butynediol)	110-65-6	0.3	5.1	31
454	Butyraldehyde	123-72-8	220	1,300	2,500
455	Butyric acid, sodium salt	156-54-7	30	330	2,000
456	Butyric acid; (n-Butyric acid)	107-92-6	5.1	56	400
457	BZ; (3-Quinuclidinyl benzilate)	6581-06-2	1.00E-03	0.011	0.21
458	C.I. pigment red 53:1; (5-Chloro-2-((2-hydroxy-1-naphthyl)azo)-p-toluene sulfonic acid, barium salt)	5160-02-1	3	68	410
459	C-18 Unsaturated fatty acid, dimers, reaction products with polyethylenepolyamines; (Versamid 140 polyamide resin; Versamid 125)	68410-23-1	30	330	2,000

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
460	Cacodylic acid; (Arsenic acid, dimethyl-)	75-60-5	2.8	25	140
461	Cadmium	7440-43-9	0.10	0.76	4.7
462	Cadmium bromide	7789-42-6	0.24	1.8	11
463	Cadmium carbonate	513-78-0	0.15	1.2	7.2
464	Cadmium chloride	10108-64-2	0.16	1.2	7.6
465	Cadmium chloride hemipentahydrate; (Cadmium chloride, 5/2-hydrate)	7790-78-5	0.1	0.77	9.5
466	Cadmium fluoride	7790-79-6	0.13	1	6.3
467	Cadmium hydroxide	21041-95-2	0.13	0.99	6.1
468	Cadmium nitrate	10325-94-7	0.21	1.6	9.9
469	Cadmium nitrate tetrahydrate	10022-68-1	0.27	2.1	13
470	Cadmium nitrite	7790-83-2	0.18	1.4	8.6
471	Cadmium oxide	1306-19-0	0.11	0.87	5.4
472	Cadmium stearate; (Octadecanoic acid, cadmium salt)	2223-93-0	0.61	4.6	28
473	Cadmium sulfate	10124-36-4	0.19	1.4	8.7
474	Cadmium sulfate, hydrate	7790-84-3	0.1	0.76	11
475	Cadmium sulfide	1306-23-6	0.13	0.98	6
476	Cadmium tungstate	7790-85-4	0.32	2.4	15

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
477	Cadmium(II) acetate	543-90-8	0.21	1.6	9.6
478	Calcium acetate	62-54-4	13	140	850
479	Calcium arsenate	7778-44-1	0.91	10	270
480	Calcium carbide	75-20-7	120	1,300	7,900
481	Calcium chloride	10043-52-4	12	130	790
482	Calcium chloride dihydrate	10035-04-8	16	170	1,100
483	Calcium chloride hexahydrate	7774-34-7	24	260	1,600
484	Calcium chloride hydrate	22691-02-7	13	140	850
485	Calcium chromate	13765-19-0	0.003	7.8	47
486	Calcium cyanamide	156-62-7	1.5	5.6	50
487	Calcium cyanide	592-01-8	3.8	13	28
488	Calcium fluoride	7789-75-5	15	170	1,000
489	Calcium formate	544-17-2	8.5	71	710
490	Calcium hydride	7789-78-8	12	130	790
491	Calcium hydroxide	1305-62-0	15	240	1,500
492	Calcium hydroxide phosphate; (Calcium phosphate tribasic)	12167-74-7	120	1,300	7,900
493	Calcium hypochlorite; (Calcium oxychloride)	7778-54-3	2.6	28	170

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
494	Calcium metasilicate	10101-39-0	30	330	2,000
495	Calcium monohydrogen phosphate dihydrate	7789-77-7	12	130	790
496	Calcium nitrite	13780-06-8	6.4	71	240
497	Calcium oxalate	563-72-4	12	130	790
498	Calcium oxalate, monohydrate	5794-28-5	14	150	900
499	Calcium oxide	1305-78-8	6	110	660
500	Calcium phosphate; (Tricalcium phosphate)	10103-46-5	120	1,300	7,900
501	Calcium phosphide	1305-99-3	0.67	7.4	13
502	Calcium sulfide	20548-54-3	12	130	790
503	Calcium trifluoromethanesulfonate	55120-75-7	22	250	1,500
504	Calcium(II) nitrate	10124-37-5	1.2	13	79
505	Calcium(II) nitrate tetrahydrate (1:2:4)	13477-34-4	12	130	770
506	Camphorsulfonic acid, (1R)-(-)-10-	35963-20-3	30	330	2,000
507	Cantharidin	56-25-7	0.39	4.3	33
508	Caprolactam (dust)	105-60-2	3	40	240
509	Caprolactone; (epsilon-Lactone hexanoic acid)	502-44-3	13	140	850
510	Caprylyl chloride; (Octanoyl chloride)	111-64-8	30	330	2,000

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
511	CAPSO	73463-39-5	30	330	2,000
512	Captan	133-06-2	15	26	160
513	Carbachol chloride	51-83-2	1.4	15	90
514	Carbamic acid, methyl-, O-(((2,4-dimethyl-1,3-dithiolan-2-yl)methylene)amino)-; (Tirpate)	26419-73-8	0.003	0.033	0.2
515	Carbaryl; (Sevin)	63-25-2	1.5	100	600
516	Carbazole	86-74-8	0.66	7.2	43
517	Carbethoxyethylidine(triphenylphosphorane)	5717-37-3	30	330	2,000
518	Carbofuran	1563-66-2	0.3	0.43	3.7
519	Carbon black	1333-86-4	9	99	590
520	Carbon disulfide	75-15-0	40	500	1,500
521	Carbon monoxide	630-08-0	86	95	380
522	Carbon tetrachloride	56-23-5	7.5	82	2,100
523	Carbon tetrafluoride; (Tetrafluoromethane)	75-73-0	330	3,600	22,000
524	Carbon trifluoride; (Trifluoromethane; Fluoroform)	75-46-7	1,300	14,000	84,000
525	Carbon; (Graphite, 7782-42-5)	7440-44-0	6	330	2,000
526	Carbonic acid, calcium salt	471-34-1	45	210	1,300
527	Carbonyl fluoride	353-50-4	0.069	0.76	2.2

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
528	Carbonyl sulfide	463-58-1	37	140	370
529	Carbonyldiphthalic anhydride, 4,4'-	2421-28-5	30	330	2,000
530	Carbophenothion; (Trithion)	786-19-6	0.62	6.8	24
531	Catechol	120-80-9	68	430	2,600
532	Ceric ammonium nitrate	16774-21-3	1.2	13	79
533	Ceric ammonium sulfate; (includes hydrated forms)	7637-03-8	1.2	13	79
534	Ceric oxide	1306-38-3	3	33	200
535	Cerium	7440-45-1	30	330	2,000
536	Cerium acetate	537-00-8	30	330	2,000
537	Cerium chloride	7790-86-5	6.3	70	420
538	Cerium fluoride	7758-88-5	26	280	1,700
539	Cerium hydroxide	15785-09-8	21	180	1,100
540	Cerium nitrate hexahydrate	10294-41-4	13	140	830
541	Cerium oxalate	139-42-4	30	330	2,000
542	Cerium sulfate	13590-82-4	30	330	2,000
543	Cerium trioxide	1345-13-7	1.6	17	100
544	Cerium(III) sulfate	13454-94-9	12	130	790

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
545	Cerium(IV) hydroxide	12014-56-1	30	330	2,000
546	Cerium(IV) nitrate	13093-17-9	30	330	2,000
547	Cerous nitrate; (Cerium(III) nitrate)	10108-73-3	9.5	100	620
548	Cerous nitrite	z-0004	30	330	2,000
549	Cesium	7440-46-2	5.6	61	370
550	Cesium carbonate	534-17-8	7	77	460
551	Cesium chloride	7647-17-8	21	230	400
552	Cesium fluoride	13400-13-0	60	670	4,000
553	Cesium hydroxide	21351-79-1	6	19	110
554	Cesium iodide	7789-17-5	7.2	79	470
555	Cesium metaborate	92141-86-1	6.8	77	460
556	Cesium nitrate	7789-18-6	7.2	79	470
557	Cesium nitrite	13454-83-6	30	330	2,000
558	Cesium oxide	20281-00-9	4.1	45	270
559	Chloramben; (Amiben; 3-Amino-2,5-dichlorobenzoic acid)	133-90-4	11	120	690
560	Chloramphenicol	56-75-7	1.5	10	500
561	Chlordane	57-74-9	4.5	50	500

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
562	Chlorfenvinfos	470-90-6	0.91	10	500
563	Chloric acid, sodium salt; (Sodium chlorate)	7775-09-9	3.6	40	240
564	Chloride; (Chloride(1-); Chloride ions)	16887-00-6	0.72	2.9	29
565	Chlorinated polyolefins	68410-99-1	30	330	2,000
566	Chlorine	7782-50-5	1.4	5.8	58
567	Chlorine dioxide	10049-04-4	0.41	3	6.6
568	Chlorine pentafluoride	13637-63-3	0.083	0.91	43
569	Chlorine trifluoride	7790-91-2	0.45	7.6	79
570	Chlormephos	24934-91-6	0.64	7	42
571	Chlormequat chloride; (Choline dichloride)	999-81-5	0.64	7	65
572	Chloro-1,1,1,2-tetrafluoroethane, 2-	2837-89-0	5,600	28,000	56,000
573	Chloro-1,1-difluoroethane, 1-; (HCFC-142b)	75-68-3	41,000	62,000	1.00E+05
574	Chloro-1,2-propanediol, 3-; (Chlorohydrin)	96-24-2	0.051	0.56	24
575	Chloro-1-butanol, 4-	928-51-8	1.5	16	110
576	Chloro-2,4-dinitrobenzene, 1-	97-00-7	1.6	18	150
577	Chloro-2-methyl-1-propene, 3-	563-47-3	4.4	48	170
578	Chloro-2-methyl-4-isothiazolin-3-one, 5-	26172-55-4	0.6	6.6	40

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
579	Chloro-2-methylpropane, 2-; (Tert-butyl chloride)	507-20-0	8.9	98	590
580	Chloro-2-nitrophenol, 4-	89-64-5	12	130	790
581	Chloro-4-nitrophenol, 2-	619-08-9	2.7	30	180
582	Chloroacetaldehyde	107-20-0	4.2	7.1	32
583	Chloroacetaldehyde dimethyl acetal	97-97-2	12	130	790
584	Chloroacetic acid, sodium salt	3926-62-3	7.2	79	480
585	Chloroacetic acid; (Monochloroacetic acid)	79-11-8	5.8	25	59
586	Chloroacetone	78-95-5	1.5	17	49
587	Chloroacetonitrile	107-14-2	1.4	15	46
588	Chloroacetyl chloride	79-04-9	0.18	7.4	240
589	Chloroallyl)-3,5,7-triaza-1-azoniaadamantane chloride, 1-(3-	4080-31-3	1.5	17	99
590	Chloroaniline, p-	106-47-8	6.1	68	100
591	Chlorobenzene; (Benzene chloride)	108-90-7	46	690	1,800
592	Chlorobenzotrifluoride, 2-	88-16-4	4.8	53	320
593	Chlorobenzylate; (4,4'-Dichlorobenzilic acid ethyl ester)	510-15-6	8.4	92	550
594	Chlorobenzylidene malononitrile, o-; (Tear Gas)	2698-41-1	0.005	0.083	11
595	Chlorobutane, 1-; (Butyl chloride)	109-69-3	15	170	1,300

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
596	Chlorobutane, 2-; (sec-Butyl chloride)	78-86-4	1.3	14	1,300
597	Chlorobutyryl chloride, 4-	4635-59-0	0.43	4.8	29
598	Chlorocyclohexanol, trans-2-	6628-80-4	2.7	30	180
599	Chlorocyclohexene; (4-Chlorocyclohexene)	930-65-4	30	330	2,000
600	Chlorodecane, 1-	1002-69-3	120	1,300	7,900
601	Chlorodiethylaluminum; (Diethylaluminum chloride)	96-10-6	27	290	1,800
602	Chlorodifluoromethane; (Freon 22; CFC 22)	75-45-6	4,400	8,300	50,000
603	Chloroethanesulfonyl chloride, 2-	1622-32-8	0.23	2.5	19
604	Chloroethyl chloroformate	627-11-2	1.8	20	120
605	Chloroethyl phenyl sulfide, 2-	5535-49-9	1.2	13	79
606	Chloroethyl vinyl ether, 2-; (Ethene, 2-chloroethoxy-)	110-75-8	0.71	7.8	47
607	Chloroethylchloromethylsulfide, 2-	2625-76-5	0.059	0.12	1.9
608	Chloroform	67-66-3	9.8	310	16,000
609	Chloroform-d; (Deuterated chloroform)	865-49-6	9.8	310	16,000
610	Chloro-m-cresol, 4-	59-50-7	5.5	60	360
611	Chloromethyl methyl ether	107-30-2	0.14	1.5	6.6
612	Chloromethyl(trichloro)silane	1558-25-4	4.5	55	250

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
613	Chloronaphthalene, 1-; (alpha-Chloronaphthalene)	90-13-1	4.6	51	310
614	Chloronaphthalene, 2-; (beta-Chloronaphthalene)	91-58-7	6.2	69	410
615	Chloronitrobenzene, p-; (p-Nitrochlorobenzene)	100-00-5	1.9	170	1,000
616	Chloroperoxybenzoic acid, 3-	937-14-4	30	330	2,000
617	Chlorophacinone	3691-35-8	0.0047	0.051	0.31
618	Chlorophenol, 4-; (p-Chlorophenol)	106-48-9	1.5	17	99
619	Chlorophenol, m-	108-43-0	2.1	23	140
620	Chlorophenol, o-	95-57-8	2.3	25	150
621	Chlorophenyl phenyl ether, 4-	7005-72-3	1.5	35	210
622	Chlorophenyl thiourea, 2-	5344-82-1	0.014	0.15	0.91
623	Chloropicrin/Methyl bromide mixture	8004-09-9	0.05	0.15	1.4
624	Chloropicrin/Methyl chloride mixture	z-0007	0.05	0.15	1.4
625	Chloropicrin; (Trichloronitromethane)	76-06-2	0.34	1	9.4
626	Chloroprene; (beta-Chloroprene; Neoprene)	126-99-8	110	230	1,400
627	Chloropropanol, 3-; (1-Propanol, 3-chloro-)	627-30-5	6.9	76	460
628	Chloropropionitrile, 3-	542-76-7	0.82	9	20
629	Chloropropyl)trimethoxysilane, 3-; (3-(Trimethoxysilyl)propyl chloride)	2530-87-2	5.2	57	1,300

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
630	Chloropropylene, 2-	557-98-2	670	7,300	9,300
631	Chloropropyl-n-octylsulfoxide, 3-	3569-57-1	0.73	8	1,100
632	Chloro-p-toluenesulfonamide sodium salt, N-; (Chloramine T)	127-65-1	2.8	31	190
633	Chlorosarin; (o-Isopropyl methylphosphonochloridate)	1445-76-7	0.0031	0.038	0.14
634	Chlorosoman; (o-Pinacolyl methylphosphonochloridate)	7040-57-5	0.0015	0.018	0.14
635	Chlorosulfonic acid; (Chlorosulfuric acid)	7790-94-5	0.10	4.4	25
636	Chlorothalonil; (Tetrachloroisophthalonitrile)	1897-45-6	0.13	1.4	8.6
637	Chlorotoluene, 2-; (o-Chlorotoluene)	95-49-8	390	1,600	9,600
638	Chlorotoluene, 4-; (p-Tolyl chloride)	106-43-4	6.3	69	420
639	Chlorotrifluoroethene, homopolymer	9002-83-9	1.5	16	200
640	Chlorotrifluoroethylene	79-38-9	76	410	2,000
641	Chlorotrifluoromethane; (CFC-13)	75-72-9	13,000	1.40E+05	8.50E+05
642	Chloroxuron	1982-47-4	0.91	10	68
643	Chlorpyrifos; (Dursban)	2921-88-2	0.6	15	44
644	Chlorsulfuron	64902-72-3	3.9	43	260
645	Chlorthiophos	21923-23-9	0.71	7.8	9.9
646	Cholera toxin; (Enterotoxin, vibrio cholera)	9012-63-9	7.70E-05	8.50E-04	0.0051

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
647	Chromates	13907-45-4	0.33	5	30
648	Chromic acetate; (Chromium(III) acetate)	1066-30-4	6.6	78	470
649	Chromic chloride; (Chromium(III) chloride)	10025-73-7	4.6	15	87
650	Chromic oxide; (Chromium(III) oxide; Chromium sesquioxide)	1308-38-9	2.2	24	140
651	Chromic sulfate; (Chromium(III) sulfate (2:3))	10101-53-8	5.7	63	380
652	Chromic trioxide; (Chromium(VI) oxide (1:3))	1333-82-0	0.29	5	30
653	Chromic(III) hydroxide; (Chromic acid (H ₃ CrO ₃); Chromium trihydroxide)	1308-14-1	3	33	200
654	Chromite; (Chromite (mineral))	1308-31-2	3.2	36	220
655	Chromium	7440-47-3	1.5	17	99
656	Chromium nitrate	10103-47-6	3.3	36	220
657	Chromium perchlorate, hydrated	13537-21-8	10	110	670
658	Chromium(III) acetate hydroxide	39430-51-8	8	89	530
659	Chromium(III) chloride, hexahydrate	10060-12-5	7.7	43	260
660	Chromium(III) fluoride	7788-97-8	3.1	33	200
661	Chromium(III) nitrate	13548-38-4	6.9	110	640
662	Chromium(III) oxide hydroxide; (Chromium oxyhydroxide)	20770-05-2	2.5	27	160
663	Chromium(III) potassium sulfate (1:1:2), dodecahydrate	7788-99-0	14	160	950

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
664	Chromium(VI) hydroxide	12626-43-6	0.089	7.7	46
665	Chromous chloride; (Chromium(II) chloride (1:2))	10049-05-5	3.5	62	370
666	Chrysene	218-01-9	0.6	12	69
667	Coal tar pitch volatiles; (Particulate polycyclic aromatic hydrocarbons)	65996-93-2	0.6	120	700
668	Coal tar, aerosol	8007-45-2	2.8	31	190
669	Cobalt	7440-48-4	0.18	2	20
670	Cobalt acetate tetrahydrate; (Cobaltous acetate tetrahydrate)	6147-53-1	2.1	23	140
671	Cobalt carbonyl	10210-68-1	0.3	3.3	20
672	Cobalt chloride	7646-79-9	0.13	18	83
673	Cobalt hydrocarbonyl	16842-03-8	0.3	0.9	3
674	Cobalt hydroxide	21041-93-0	0.095	1.1	6.3
675	Cobalt nitrate hexahydrate; (Cobaltous nitrate hexahydrate)	10026-22-9	0.3	23	140
676	Cobalt nitrate; (Cobalt(II) nitrate)	10141-05-6	0.19	14	86
677	Cobalt nitrite	32486-57-0	0.15	1.7	10
678	Cobalt oxide; (Cobaltic-cobaltous oxide)	1308-06-1	0.082	4.5	27
679	Cobalt sulfate	10124-43-3	0.16	14	84
680	Cobalt sulfate heptahydrate; (Cobalt(II) sulfate(1:1), heptahydrate)	10026-24-1	0.29	19	120

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
681	Cobalt tetraphenylporphine	14172-90-8	120	1,300	7,900
682	Cobalt(II) chloride hexahydrate	7791-13-1	0.24	25	150
683	Cobalt(II) oxide	1307-96-6	0.076	4.2	25
684	Cobalt(II) perchlorate, hexahydrate	13478-33-6	0.37	5.8	35
685	Cobalt(II) sulfate hydrate	60459-08-7	0.18	1.9	12
686	Cobalt, ((2,2'-(1,2-ethanediylbis(nitrilomethylidyne))bis(6-fluorophenolato))(2-)-N,N',O,O')-; (Fluomine)	62207-76-5	0.27	3	5.7
687	Cobaltous bromide; (Cobalt(II) bromide)	7789-43-7	0.22	13	80
688	Cobaltous carbonate	513-79-1	0.12	210	1,200
689	Colchicine	64-86-8	0.082	0.9	5.1
690	Conotoxins (α)	156467-85-5	0.2	2.2	13
691	Copper	7440-50-8	3	33	200
692	Copper cyanide; (Copper(I) cyanide; Cuprous cyanide)	544-92-3	21	29	170
693	Copper hydroxide; (Copper(II) hydroxide, Cupric hydroxide)	20427-59-2	4.6	33	200
694	Copper nitrate; (Cupric nitrate)	3251-23-8	8.9	31	190
695	Copper oxide; (Copper(I) oxide)	1317-39-1	0.68	16	93
696	Copper sulfate; (Copper(II) sulfate)	7758-98-7	7.5	9.9	59
697	Copper(I) chloride; (Cuprous chloride)	7758-89-6	4.7	53	320

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
698	Copper(I) sulfide	22205-45-4	3.8	43	260
699	Copper(II) acetate monohydrate	6046-93-1	9.4	23	140
700	Copper(II) carbonate hydroxide (2:1:2)	12069-69-1	5.2	45	270
701	Copper(II) chloride (1:2); (Cupric chloride)	7447-39-4	6.3	69	420
702	Copper(II) chloride dihydrate; (Cupric chloride)	10125-13-0	8	89	530
703	Copper(II) oxalate	814-91-5	7.3	79	480
704	Copper(II) perchlorate, dihydrate	17031-32-2	14	160	930
705	Copper(II) sulfate pentahydrate	7758-99-8	12	32	190
706	Copper(II) sulfide	1317-40-4	4.5	50	300
707	Coumaphos	56-72-4	0.27	3	13
708	Coumarin	91-64-5	0.88	9.7	58
709	Coumatetralyl; (Endrocide)	5836-29-3	0.0064	0.071	1.7
710	Creosote (coal tar)	8001-58-9	0.6	120	700
711	Cresols, all isomers; (includes 95-48-7,108-39-4,106-44-5)	1319-77-3	62	110	1,100
712	Cresyl violet acetate	10510-54-0	30	330	2,000
713	Crimidine; (Castrix)	535-89-7	0.0063	0.069	0.41
714	Cristobalite	14464-46-1	0.075	33	200

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
715	Crocidolite	12001-28-4	0.05	1.9	160
716	Crotonaldehyde, cis-	4170-30-3	0.54	13	40
717	Crotonaldehyde, trans-	123-73-9	0.54	13	40
718	Crotonic Acid	3724-65-0	3	33	200
719	Crystal violet; (Aniline violet)	548-62-9	0.082	0.9	83
720	Cs7SB; (1-(2,2,3,3-Tetrafluoropropoxy)-3-(4-sec-butylphenoxy)-2-propanol)	308362-88-1	33	370	2,200
721	Cube Resin other than Rotenone	z-0122	30	330	2,000
722	Cumene hydroperoxide; (Isopropylbenzene hydroperoxide)	80-15-9	0.91	10	60
723	Cumene; (Isopropyl benzene)	98-82-8	250	1,500	3,600
724	Cumenol methylcarbamate, m-; (3-(1-Methylethyl)phenol methylcarbamate)	64-00-6	0.095	1	6.3
725	Cupferron; (Ammonium-N-nitrosophenylhydroxylamine)	135-20-6	0.6	6.6	39
726	Cupric acetate, anhydrous; (Copper acetate)	142-71-2	8.6	20	120
727	Cupric nitrate hemipentahydrate	19004-19-4	42	150	240
728	Cupric nitrite	14984-71-5	7.3	79	480
729	Cupric oxide	1317-38-0	0.75	11	93
730	Cyanamide	420-04-2	6	66	400
731	Cyanic acid; (Hydrogen cyanate)	420-05-3	9.5	14	81

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
732	Cyanide	57-12-5	6	8.3	50
733	Cyanoacetamide	107-91-5	9.6	110	630
734	Cyanogen	460-19-5	4.3	18	53
735	Cyanogen bromide	506-68-3	24	44	200
736	Cyanogen chloride	506-77-4	0.012	0.13	10
737	Cyanogen iodide	506-78-5	35	180	290
738	Cyanoguanidene; (Guanidine, cyano-; Dicyandiamido)	461-58-5	61	680	4,000
739	Cyanophos	2636-26-2	2.3	25	130
740	Cyanuric acid; (1,3,5-Triazine-2,4,6-triol)	108-80-5	30	250	1,500
741	Cyanuric chloride	108-77-0	0.41	4.5	7.7
742	Cyanuric fluoride; (2,4,6-Trifluoro-s-triazine)	675-14-9	10	15	87
743	Cyclohexane	110-82-7	1,000	5,700	34,000
744	Cyclohexane-1,2-dinitrilotetraacetic acid, trans-; (CyDTA)	13291-61-7	30	330	2,000
745	Cyclohexanediamine, 1,2-	694-83-7	2.1	23	140
746	Cyclohexanedimethanol, cis and trans, 1,4-	105-08-8	9.6	110	630
747	Cyclohexanol	108-93-0	610	2,300	14,000
748	Cyclohexanone; (Ketoexamethylene)	108-94-1	240	3,300	20,000

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
749	Cyclohexene	110-83-8	3,000	5,700	34,000
750	Cycloheximide	66-81-9	0.18	2	12
751	Cyclohexyl isocyanate	3173-53-3	0.015	0.17	0.51
752	Cyclohexyl methyl phosphonic acid	1932-60-1	30	330	2,000
753	Cyclohexylamine	108-91-8	7.3	35	120
754	Cyclohexylamino)-1-propanesulfonic acid, 3-; (CAPS)	1135-40-6	6	66	400
755	Cyclohexylethanol, 2-	4442-79-9	2.8	31	190
756	Cyclooctadiene, 1,5-	111-78-4	7.8	85	510
757	Cyclooctane	292-64-8	120	1,300	7,900
758	Cyclooctatetraene, 1,3,5,7-	629-20-9	2.80E+05	9.80E+05	1.70E+06
759	Cyclooctene, cis-	931-87-3	120	1,300	7,900
760	Cyclopentane	287-92-3	5,200	11,000	66,000
761	Cyclopentanone	120-92-3	3	33	200
762	Cyclopropane	75-19-4	150	1,600	9,600
763	Cyclotetramethylene tetranitramine; (HMX)	2691-41-0	19	210	1,300
764	Cyclotol; (RDX-TNT mixture)	8065-53-0	3	33	200
765	Cyclotrimethylenetrinitramine; (RDX or Cyclonite)	121-82-4	3	26	160

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
766	Cytidine monophosphate; (Cytidine 5-monophosphate free acid)	63-37-6	4.3	48	290
767	Dawsonite; (Crystalline dehydroxy sodium aluminum, carbonate)	12011-76-6	16	170	1,000
768	DDD; (1,1-bis(4-Chlorophenyl)-2,2-dichloroethane)	72-54-8	2.4	26	160
769	DDE; (2,2-bis(p-Chlorophenyl)-1,1-dichloroethylene)	72-55-9	6.5	72	170
770	DDT; (Dichlorodiphenyltrichloroethane)	50-29-3	3	34	210
771	Decaborane	17702-41-9	0.75	10	100
772	Decafluoropentane, 1,1,1,2,3,4,4,5,5,5-	138495-42-8	370	4,100	5,200
773	Decahydronaphthalene, includes -cis (493-01-6) and -trans (493-02-7) isomers	91-17-8	14	150	180
774	Decanal	112-31-2	11	120	740
775	Decane	124-18-5	38	420	2,500
776	Decene, 1-, homopolymer, hydrogenated	68037-01-4	30	330	2,000
777	Decyl alcohol; (1-Decanol)	112-30-1	1.8	19	140
778	Demeton	8065-48-3	0.18	2	20
779	Demeton-S-methyl	919-86-8	0.45	5	22
780	Deuterium	7782-39-0	11,000	38,000	66,000
781	Deuteriochloric acid; (Deuterium chloride)	7698-05-7	2.8	34	150
782	Di(ethylene glycol) diacrylate	4074-88-8	0.75	8.3	50

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
783	Di-2-ethylhexyl adipate	103-23-1	17	180	1,100
784	Diacetoxydibutyl stannane	1067-33-0	0.59	6.5	39
785	Diacetoxyscirpenol; (Anguidin; mycotoxin)	2270-40-8	9.90E-04	0.011	0.34
786	Diacetyl peroxide; (Acetyl peroxide)	110-22-5	1.2	13	79
787	Dialifor	10311-84-9	0.45	5	39
788	Diallyl phthalate	131-17-9	15	24	140
789	Diallyldimethylammonium chloride	7398-69-8	7.6	83	500
790	Diallyldimethylammonium chloride polymer	26062-79-3	6	65	590
791	Diamino-6-(2'-methylimidazol-1-yl)ethyl-s-triazine, 2,4-; (1,3,5-Triazine-2,4-diamine, 6-(2-(2-methyl-1H-imidazol-1-yl)ethyl)-; Curezol 2MEA-PW)	38668-46-1	30	330	2,000
792	Diaminodiphenyl ether, 4,4'-; (4,4'-Oxydianiline)	101-80-4	2.2	24	140
793	Diaminodiphenylsulfone; (Dapsone, 4,4'-Sulfonyldianiline)	80-08-0	2	22	78
794	Diaminodipropylamine, 3,3-; (Aminobis(propylamine))	56-18-8	2.2	24	150
795	Diaminopyridine, 2,6-	141-86-6	0.33	3.6	22
796	Diammonium dimolybdate; (Ammonium molybdenum oxide)	27546-07-2	2.6	29	170
797	Diammonium oxalate; (Ethanedioic acid, diammonium salt)	1113-38-8	30	330	2,000
798	Diammonium sulfide; (Ammonium sulfide)	12135-76-1	2.8	150	280
799	Diamond	7782-40-3	6.3	69	1,100

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
800	Dianisidine dihydrochloride, o-; (3,3'-Dimethoxybenzidine dihydrochloride)	20325-40-0	1.2	13	79
801	Diazabicyclo(2,2,2)octane, 1,4-	280-57-9	5.1	56	340
802	Diazabicyclo(5.4.0)undec-7-ene, 1,8-	6674-22-2	1.2	13	79
803	Diazoacetic acid, ethyl ester; (Ethyl diazoacetate)	623-73-4	1.2	13	79
804	Diazomethane	334-88-3	1	11	67
805	Dibenza(a,h)anthracene	53-70-3	0.093	1	2.9
806	Dibenzo(a,e)pyrene; (Naphtho(1,2,3,4-def)chrysene)	192-65-4	30	330	2,000
807	Dibenzofuran	132-64-9	30	330	2,000
808	Dibenzo-p-dioxin	262-12-4	3.7	40	240
809	Diborane	19287-45-7	0.34	1.1	4.2
810	Dibromo-3-chloropropane, 1,2-; (DBCP)	96-12-8	0.029	21	41
811	Dibromo-4-nitrophenol, 2,6-	99-28-5	0.18	2	12
812	Dibromochloromethane; (Chlorodibromomethane)	124-48-1	1.1	12	73
813	Dibromohexane, 1,6-	629-03-8	0.89	9.7	58
814	Dibromomethane; (Methylene dibromide)	74-95-3	21	230	1,400
815	Dibromophenol, 2,6-	608-33-3	14	150	900
816	Dibromopropane, 1,3-	109-64-8	3.1	34	100

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
817	Dibromotetrafluoroethane; (Halon 2402)	124-73-2	460	5,100	30,000
818	Dibutyl (2-ethylhexyl)phosphate	z-0011	280	3,000	18,000
819	Dibutyl butylphosphonate	78-46-6	0.18	2	12
820	Dibutyl peroxide, tert-	110-05-4	44	480	1,100
821	Dibutyl phosphate	107-66-4	17	180	1,100
822	Dibutyl phosphite	1809-19-4	9.6	110	630
823	Dibutyl phthalate	84-74-2	15	1,600	9,300
824	Dibutylboron triflate; (Dibutylboryl trifluoromethanesulfonate)	60669-69-4	36	400	2,400
825	Dibutylhexamethylenediamine, N,N'-	4835-11-4	0.2	2.2	9.7
826	Dibutyltin dilaurate; (Dibutylbis(lauroyloxy)stannane)	77-58-7	1.1	8	48
827	Dichloran; (2,6-Dichloro-4-nitroaniline; Resisan)	99-30-9	7.2	79	480
828	Dichloro(4,4-dimethylzinc -5(((methylamino)carbonyl)oxy)imino)pentanenitrile), (trans-4)-; (Ethienocarb)	58270-08-9	0.82	9	54
829	Dichloro-2-butene, 1,4-	764-41-0	0.077	9.9	60
830	Dichloro-2-propanol, 1,3-	96-23-1	1.7	19	28
831	Dichloro-2-trifluoromethylbenzimidazole, 4,5-; (Chloroflurazole)	3615-21-2	1.2	13	78
832	Dichloroacetic acid	79-43-6	7.9	47	720
833	Dichloroacetyl chloride	79-36-7	0.24	9.6	310

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
834	Dichloroacetylene	7572-29-4	0.035	0.39	13
835	Dichloroamine; (Chlorimide)	3400-09-7	0.49	5.4	32
836	Dichlorobenzene, m-	541-73-1	36	400	2,400
837	Dichlorobenzene, o-	95-50-1	300	1,000	6,000
838	Dichlorobenzene, p-	106-46-7	180	1,000	6,000
839	Dichlorobenzidene, 3,3'-	91-94-1	21	230	1,400
840	Dichlorocyclohexane, 1,1-	2108-92-1	330	1,100	6,300
841	Dichlorocyclohexane, trans-1,2-	822-86-6	330	1,100	6,300
842	Dichlorodifluoromethane; (Freon 12, CFC 12)	75-71-8	15,000	49,000	2.50E+05
843	Dichloroethanol acetate, 1,2-	10140-87-1	1	11	66
844	Dichloroethyl ether; (1,1'-Oxybis(2-chloro)ethane; Bis(2-chloroethyl)ether)	111-44-4	58	150	1,500
845	Dichloroethylaluminum	563-43-9	28	310	1,800
846	Dichloroethylbenzene; (Ethylchlorobenzene)	1331-29-9	17	180	1,100
847	Dichloroethylene, 1,2-	540-59-0	550	2,000	3,400
848	Dichloroethylene, cis-1,2-	156-59-2	550	2,000	3,400
849	Dichloroethylene, trans-1,2-	156-60-5	1,100	4,000	6,700
850	Dichlorofluoromethane; (Freon 21, CFC 21)	75-43-4	130	35,000	2.10E+05

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
851	Dichlorohexane, 1,2-	2162-92-7	12	130	760
852	Dichlorohexane, 1,6-	2163-00-0	12	130	790
853	Dichloroisopropyl ether	108-60-1	1	11	150
854	Dichloromethane-d2	1665-00-5	710	2,000	25,000
855	Dichloromethoxy ethane; (bis(2-Chloroethoxy)methane)	111-91-1	0.29	3.1	19
856	Dichloromethyl ether; (bis(Chloromethyl)ether)	542-88-1	0.019	0.21	0.85
857	Dichloromethylphenylsilane	149-74-6	7	86	390
858	Dichloromethylphosphine; (Methylphosphonous dichloride)	676-83-5	1.2	13	79
859	Dichlorooctane, 1,8-	2162-99-4	30	330	2,000
860	Dichlorophene	97-23-4	4.5	50	300
861	Dichlorophenol, 2,4-	120-83-2	1.3	13	130
862	Dichlorophenol, 2,6-	87-65-0	8.8	97	580
863	Dichlorophenoxyacetic acid, 2,4-; (2,4-D)	94-75-7	30	94	500
864	Dichloropropane, 1,1-	78-99-9	12	130	790
865	Dichloropropane, 1,2-; (Propylene dichloride)	78-87-5	140	1,000	9,200
866	Dichloropropane, 1,3-	142-28-9	25	270	1,600
867	Dichloropropane, 2,2-	594-20-7	12	130	790

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
868	Dichloropropene, 1,1-	563-58-6	5.9	68	390
869	Dichloropropene, 1,2-; (including cis- isomer, 6923-20-2)	563-54-2	6	66	400
870	Dichloropropene, 1,3-; (including cis- and trans- isomers)	542-75-6	14	88	530
871	Dichloropropene, 2,3-	78-88-6	1.5	16	97
872	Dichlorosilane	4109-96-0	3.7	45	210
873	Dichlorotetrafluoroethane	1320-37-2	1,000	11,000	66,000
874	Dichlorotetrafluoroethane, 1,2-; (Freon 114, CFC 114)	76-14-2	21,000	70,000	3.50E+05
875	Dichlorovos; (Dichlorvos)	62-73-7	1.8	20	200
876	Dicrotophos	141-66-2	0.15	0.9	17
877	Dicyclohexano-18-crown-6	16069-36-6	0.41	4.5	35
878	Dicyclohexyl; (Cyclohexylcyclohexane)	92-51-3	30	330	2,000
879	Dicyclohexylcarbodiimide	538-75-0	0.12	1.3	8
880	Dicyclopentadiene	77-73-6	0.054	27	410
881	Didecyldimethylammonium chloride	7173-51-5	0.82	9	17
882	Dieldrin	60-57-1	0.3	6.8	450
883	Diesel fuels; (includes diesel fuel No. 4 (68476-31-3), fuel oil No.2 (68476-30-2), fuel oil residual (68476-33-5))	68334-30-5	300	3,300	20,000
884	Diethanolamine	111-42-2	3	28	130

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
885	Diethenylbenzene, polymer with ethenylbenzene and ethenylethylbenzene, sulfonated; (Dowex 50-X8 resin)	69011-20-7	120	1,300	7,900
886	Diethoxydimethylsilane	78-62-6	17	190	1,100
887	Diethyl (methylthiomethyl) phosphonate	28460-01-7	15	160	970
888	Diethyl carbonate	105-58-8	59	650	3,900
889	Diethyl chlorophosphate	814-49-3	0.73	8	11
890	Diethyl ethylphosphonate	78-38-6	1	11	460
891	Diethyl malonate; (Ethyl malonate)	105-53-3	45	500	3,000
892	Diethyl mercury	627-44-1	0.039	0.052	2.6
893	Diethyl methylphosphonate; (DEMP)	683-08-9	7.3	81	480
894	Diethyl oxalate	95-92-1	1.2	13	79
895	Diethyl phosphite	762-04-9	12	130	770
896	Diethyl phthalate; (Ethyl phthalate)	84-66-2	15	300	1,800
897	Diethyl pyrocarbonate	1609-47-8	4.1	45	270
898	Diethyl sulfate	64-67-5	1	11	68
899	Diethyl tartrate	87-91-2	30	330	2,000
900	Diethyl telluride	627-54-3	0.3	1.8	11
901	Diethyl trichloromethylphosphonate	866-23-9	2.4	26	160

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
902	Diethylamine	109-89-7	45	1,000	6,000
903	Diethylaminoacetone	1620-14-0	0.63	6.9	41
904	Diethylaminopropylamine	104-78-9	1.7	18	110
905	Diethylaniline, N,N-	91-66-7	1.3	14	85
906	Diethylbenzene mixed isomers; (Dowtherm J); includes m- (141-93-5) and o- (135-01-3) isomers	25340-17-4	55	550	2,700
907	Diethyldichlorosilane	1719-53-5	5.8	71	320
908	Diethylene glycol	111-46-6	30	620	3,700
909	Diethylene glycol di(3-aminopropyl) ether; (Polyglycol diamine)	4246-51-9	13	140	850
910	Diethylene glycol diacetate; (2,2'-Oxybisethanol diacetate)	628-68-2	47	520	3,100
911	Diethylene glycol dimethyl ether; (Bis(2-methoxy ethyl)ether)	111-96-6	82	500	1,100
912	Diethylene glycol hexyl ether; (n-Hexyl carbitol)	112-59-4	3.7	41	480
913	Diethylenetriamine	111-40-0	13	36	210
914	Diethylenetriaminepentaacetic acid	67-43-6	3.5	39	230
915	Diethylenylbenzene; (Vinylstyrene) (m-Divinylbenzene, 108-57-6)	1321-74-0	160	310	1,800
916	Diethylethanolamine, N,N-; (Diethylaminoethanol)	100-37-8	29	400	2,400
917	Diethylphosphatoethyltriethoxy silane	757-44-8	52	570	3,400
918	Diethylstilbestrol; ((E)-4,4'-(1,2-Diethyl-1,2-ethenediyl)bisphenol)	56-53-1	9	99	590

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
919	Diethylthiourea, N,N'-	105-55-5	0.95	10	63
920	Diethylurea, 1,3-	623-76-7	14	150	910
921	Diethylzinc	557-20-0	120	1,300	7,900
922	Difluoroethane; (1,1-Difluoroethane; HFC 152a)	75-37-6	27,000	40,000	67,000
923	Digitoxin	71-63-6	0.016	0.18	15
924	Diglycidyl ether	2238-07-5	4.1	45	130
925	Diglycol monoethyl ether acetate; (Carbitol acetate)	112-15-2	16	170	1,000
926	Digoxin	20830-75-5	0.018	0.2	13
927	Dihexyl((diethylcarbamoyl)methyl)phosphonate; (Dihexyl-N,N-diethylcarbamoylmethyl phosphonate)	7369-66-6	3	33	200
928	Dihydro-2(3H)-furanone; (4-Butanolide)	96-48-0	3.6	39	310
929	Dihydro-2H-pyran, 3,4-	110-87-2	12	130	790
930	Dihydro-3-(nonenyl)-2,5-furandione	28928-97-4	30	330	2,000
931	Dihydro-4-methyl furan, 2,3-	34314-83-5	12	130	790
932	Dihydrogen hexachloroplatinate; (Chloroplatinic acid)	16941-12-1	0.013	3.2	19
933	Dihydroxy-1,3-indandione, 2,2-; (Ninhydrin monohydrate)	485-47-2	0.26	2.8	17
934	Dihydroxy-2-butene, 1,4-; (2-Butene-1,4-diol)	110-64-5	3.8	41	250
935	Dihydroxyanthraquinone, 1,8-; (Dantron)	117-10-2	6.7	73	440

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
936	Dihydroxybenzoic acid, 2,4-	89-86-1	2.6	29	170
937	Dihydroxynaphthalene-2,7-disulfonic acid, disodium salt dihydrate, 4,5-	5808-22-0	30	330	2,000
938	Diiodomethane; (Methylene iodide)	75-11-6	2.4	27	160
939	Diisoamylamine	544-00-3	0.26	2.9	17
940	Diisobutyl ketone	108-83-8	440	2,000	12,000
941	Diisobutylaluminum hydride; (Diisobutylhydroaluminum)	1191-15-7	31	320	1,900
942	Diisobutylamine	110-96-3	0.77	8.5	51
943	Diisooctyl acid phosphate	27215-10-7	12	130	790
944	Diisopropyl methylphosphonate	1445-75-6	2.7	30	180
945	Diisopropyl peroxydicarbonate	105-64-6	6.4	71	420
946	Diisopropylamine	108-18-9	62	680	4,100
947	Diisopropylamino)ethyl chloride hydrochloride, 2-(-	4261-68-1	0.008	0.088	0.53
948	Diisopropylaminoethanol, 2-; (N,N-Diisopropyl ethanolamine)	96-80-0	1.5	17	99
949	Diisopropylaniline, 2,6-	24544-04-5	16	180	630
950	Diisopropylbenzene, 1,3-	99-62-7	2	23	180
951	Diisopropylethylamine, N,N-	7087-68-5	9.3	100	610
952	Diisopropylfluorophosphate; (Phosphorofluoridic acid, bis(1-methylethyl) ester)	55-91-4	0.33	3.6	22

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
953	Diisopropyl naphthalene; (Bis(isopropyl)naphthalene)	38640-62-9	5.6	61	370
954	Diketene; (Ketene dimer)	674-82-8	0.31	3.4	10
955	Dilauroyl peroxide	105-74-8	30	330	2,000
956	Dimefox; (bis(Dimethylamido)fluorophosphate)	115-26-4	0.091	1	4.1
957	Dimethoate	60-51-5	2.7	30	170
958	Dimethoxybenzene, 1,3-	151-10-0	3	32	190
959	Dimethoxybenzene, o-	91-16-7	2.7	29	180
960	Dimethoxybenzidine 3,3'-; (o-Dianisidine)	119-90-4	20	220	380
961	Dimethoxybutane, 1,3-	10143-66-5	25	280	1,700
962	Dimethoxybutane, 2,2-	3453-99-4	25	280	1,600
963	Dimethoxydiphenylsilane	6843-66-9	0.027	0.3	1.8
964	Dimethoxyethane, 1,2-	110-71-4	47	520	3,100
965	Dimethoxypropane, 2,2-	77-76-9	22	240	1,400
966	Dimethyl butane, 2,2-	75-83-2	3,500	39,000	2.30E+05
967	Dimethyl carbamoyl chloride	79-44-7	0.066	6.7	40
968	Dimethyl carbonate	616-38-6	39	430	2,600
969	Dimethyl cyclopentanol, 1,3-	19550-46-0	30	330	2,000

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
970	Dimethyl disulfide	624-92-0	0.039	190	960
971	Dimethyl mercury	593-74-8	0.034	0.046	2.3
972	Dimethyl methylphosphonate; (DMMP)	756-79-6	10	110	1,600
973	Dimethyl phosphite	868-85-9	8.6	95	150
974	Dimethyl phosphorochloridothioate	2524-03-0	0.29	3.2	15
975	Dimethyl siloxane; (Dimethylpolysiloxane; Syltherm XLT; Syltherm 800; Silicone 360)	63148-62-9	65	720	4,300
976	Dimethyl sulfate	77-78-1	0.12	0.62	8.2
977	Dimethyl sulfide; (2-Thiopropene)	75-18-3	1.3	2,500	13,000
978	Dimethyl sulfone	67-71-0	15	170	990
979	Dimethyl sulfoxide; (DMSO)	67-68-5	480	930	5,600
980	Dimethyl(1-phenylethyl)benzene	40766-31-2	2	23	410
981	Dimethyl(polysiloxane); (Polydimethylsiloxane, silanol terminated; Dimethylsiloxane, poly, hydroxy end-blocked)	70131-67-8	190	2,100	13,000
982	Dimethyl-1,3-dioxolane-4-methanol, 2,2-	100-79-8	21	230	1,400
983	Dimethyl-1,3-propanediamine, N,N-; (1-Amino-3-dimethylaminopropane)	109-55-7	5.1	56	370
984	Dimethyl-1-butanamine, N,N-	927-62-8	130	1,400	8,600
985	Dimethyl-3-nitrobenzene, 1,2-	83-41-0	30	330	2,000
986	Dimethyl-3-pentanone, 2,4-	565-80-0	11	120	700

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
987	Dimethyl-5-phenylphenazinium chloride, 3,7-diamino-2,8-; (Safranine; Gossypimine)	477-73-6	0.17	1.9	11
988	Dimethylacetamide, N,N-	127-19-5	110	230	1,400
989	Dimethylacrylamide, N,N-	2680-03-7	0.15	1.7	50
990	Dimethylamine	124-40-3	18	120	460
991	Dimethylamino)phenyl)azo)benzenesulfonic acid, sodium salt, p-(p-; (Methyl orange, sodium salt)	547-58-0	0.18	2	12
992	Dimethylaminoazobenzene, 4-	60-11-7	0.6	6.6	40
993	Dimethylaminobenzaldehyde, p-	100-10-7	8.2	90	250
994	Dimethylaminocyclohexane, N,N-	98-94-2	1	11	66
995	Dimethylaminoethanol, 2-	108-01-0	13	150	260
996	Dimethylaminoethyl chloride hydrochloride, 2-	4584-46-7	0.34	3.8	47
997	Dimethylammonium N,N-dimethylcarbamate	4137-10-4	1.2	13	79
998	Dimethylaniline, N,N-	121-69-7	50	1,700	9,900
999	Dimethylbenzidine 3,3'-; (o-Tolidine)	119-93-7	0.0018	0.02	36
1000	Dimethylbutyric acid, 2,2-	595-37-9	12	130	790
1001	Dimethylchlorosilane; (Chlorodimethylsilane)	1066-35-9	7	85	390
1002	Dimethylcyclohexane, cis-1,4-	624-29-3	2,300	26,000	1.50E+05
1003	Dimethyldecane, 2,2-	17302-37-3	1,600	2,700	35,000

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
1004	Dimethyldichlorosilane	75-78-5	4.7	58	260
1005	Dimethyldicyclopentadiene	26472-00-4	2.2	24	140
1006	Dimethyldimethoxysilane	1112-39-6	14	150	920
1007	Dimethylethyl hydroperoxide, 1,1-; (tert-Butylhydroperoxide)	75-91-2	1.4	15	81
1008	Dimethylformamide, N,N-	68-12-2	6	270	1,600
1009	Dimethylglyoxime; (Diacetyldioxime)	95-45-4	0.99	11	65
1010	Dimethylheptane, 2,2-	1071-26-7	1,200	2,000	26,000
1011	Dimethylhexane, 3,3-	563-16-6	1,100	1,800	23,000
1012	Dimethylhydrazine, 1,1-	57-14-7	0.67	7.4	27
1013	Dimethylhydrazine, 1,2-	540-73-8	0.67	7.4	27
1014	Dimethylimidazole, 1,2-	1739-84-0	2.2	24	140
1015	Dimethylisopropylamine, N,N-	996-35-0	11	120	710
1016	Dimethylnonane, 4,5-	17302-23-7	1,500	2,500	32,000
1017	Dimethyloctane, 3,5-	15869-93-9	1,300	2,200	29,000
1018	Dimethylphenol, 2,4-; (2,4-Xylenol)	105-67-9	6.9	76	460
1019	Dimethylphenol, 2,6-; (2,6-Xylenol)	576-26-1	2.4	26	160
1020	Dimethylphthalate	131-11-3	15	1,600	9,300

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
1021	Dimethylpolysilane; (Poly(dimethylsilane))	28883-63-8	5.9	9.9	30
1022	Dimethyl-p-phenylenediamine, N,N-	99-98-9	0.012	0.13	9.9
1023	Dimethylpropane, 2,2-; (Neopentane)	463-82-1	8,800	96,000	5.70E+05
1024	Dimethylpyridine, 2,4-; (2,4-Lutidine)	108-47-4	0.6	6.6	40
1025	Dimethyltetramethoxydisiloxane, 1,3-	18186-97-5	30	330	2,000
1026	Dimetilan	644-64-4	2.3	25	150
1027	Di-n-amylamine	2050-92-2	0.26	2.9	17
1028	Di-n-butylamine	111-92-2	2.4	26	110
1029	Dinitraniline orange; (Hansa orange RN)	3468-63-1	30	330	2,000
1030	Dinitroaniline, 2,4-	97-02-9	0.86	9.4	56
1031	Dinitrobenzene, -m; (includes -o, (528-29-0) and -p isomers (100-25-4))	99-65-0	3	33	200
1032	Dinitro-o-cresol, 4,6-	534-52-1	0.6	0.83	5
1033	Dinitrophenol	25550-58-7	0.25	2.7	16
1034	Dinitrophenol, 2,3-	66-56-8	1.1	13	75
1035	Dinitrophenol, 2,4-	51-28-5	0.61	6.8	16
1036	Dinitrophenol, 2,6-	573-56-8	0.23	2.5	15
1037	Dinitro-p-toluidine, 2,6-; (4-Amino-3,5-dinitrotoluene)	6393-42-6	1	12	69

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
1038	Dinitrosopiperazine; (Piperazine, 1,4-dinitroso-)	140-79-4	0.48	5.3	32
1039	Dinitrotoluene	25321-14-6	0.6	34	200
1040	Dinitrotoluene, 2,4-	121-14-2	0.6	12	200
1041	Dinitrotoluene, 2,6-	606-20-2	0.6	47	200
1042	Dinitrotoluene, 3,4-	610-39-9	0.6	33	200
1043	Dinoseb; (2-sec-Butyl-4,6-dinitrophenol)	88-85-7	0.41	4.5	5.4
1044	Dinoterb; (2-(1,1-Dimethylethyl)-4,6-dinitrophenol)	1420-07-1	0.19	2	12
1045	Diocetyl phthalate, n-	117-84-0	41	450	11,000
1046	Diocetyl sebacate; (Bis(2-ethylhexyl) sebacate)	122-62-3	5.4	59	360
1047	Diocetyl sodium sulfosuccinate; (Di-(2-ethylhexyl) sodium sulfosuccinate)	577-11-7	5.7	63	380
1048	Dioxane, 1,4-; (1,4-Diethyleneoxide)	123-91-1	61	1,200	2,700
1049	Dioxathion	78-34-2	0.31	3.4	39
1050	Dioxolane, 1,3-	646-06-0	180	560	3,000
1051	Dipentaerythritol; (Dipentek)	126-58-9	30	330	2,000
1052	Dipentyl pentylphosphonate	6418-56-0	13	140	830
1053	Diphacinone; (Diphenadione)	82-66-6	0.082	0.9	88
1054	Diphenyl chlorophosphate; (Diphenylphosphoryl chloride)	2524-64-3	1.2	13	79

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
1055	Diphenyl cresol phosphate	26444-49-5	4.3	47	280
1056	Diphenyl mercury	587-85-9	0.53	8.3	50
1057	Diphenylamine	122-39-4	30	180	220
1058	Diphenylchloroarsine; (Chlorodiphenylarsine)	712-48-1	0.035	0.39	1.2
1059	Diphenyldichlorosilane	80-10-4	9.3	110	520
1060	Diphenylguanidine, 1,3-	102-06-7	0.97	11	64
1061	Diphenylhydrazine, 1,2-	122-66-7	120	1,300	7,900
1062	Diphenylmethane	101-81-5	6.8	74	450
1063	Diphenylnitrosamine	86-30-6	5.5	60	360
1064	Diphenyloxazole, 2,5-	92-71-7	2.5	27	160
1065	Dipicolinic acid; (2,6-Pyridinedicarboxylic acid)	499-83-2	30	330	2,000
1066	Dipotassium cadmium oxide	z-0013	0.2	1.5	9.3
1067	Dipotassium dihydrogen silicate	z-0014	30	330	2,000
1068	Dipotassium metasilicate	10006-28-7	3.9	43	260
1069	Dipropyl ketone; (4-Heptanone)	123-19-3	700	7,600	46,000
1070	Dipropylamine	142-84-7	2.8	31	180
1071	Dipropylene glycol methyl ether	34590-94-8	910	10,000	60,000

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
1072	Di-sec-octylphthalate	117-81-7	10	1,000	6,100
1073	Disodium (2-ethylhexyl)phosphate	15505-13-2	30	330	2,000
1074	Disodium 3,6-endoxohexahydrophthalate	129-67-9	0.15	1.7	10
1075	Disodium butylphosphate	64114-42-7	30	330	2,000
1076	Disodium cadmium oxide	z-0016	0.17	1.3	8
1077	Disodium dihydrogen silicate	z-0017	30	330	2,000
1078	Disodium ethylenediaminediacetate (S and U isomers)	38011-25-5	30	330	2,000
1079	Disodium hexafluorosilicate (2-)	16893-85-9	12	140	820
1080	Disodium iminodiacetate	928-72-3	24	270	1,600
1081	Disodium monoxide; (Disodium oxide; Sodium oxide)	1313-59-3	0.5	5	50
1082	Distillates (petroleum) hydrotreated heavy naphthenic	64742-52-5	140	1,500	8,900
1083	Disulfiram	97-77-8	6	17	99
1084	Disulfoton	298-04-4	0.18	2	8.8
1085	Di-tert-butyl dicarbonate	24424-99-5	0.067	0.73	4.4
1086	Di-tert-butylhydroquinone, 2,5-	88-58-4	6.3	69	110
1087	Dithiazanine iodide; (3,3'-Diethylpentamethinethiacyanine iodide)	514-73-8	1.8	20	33
1088	Dithiobiuret	541-53-7	0.45	5	11

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
1089	Dithiodiethanol, 2,2-; (Dithiodiglycol)	1892-29-1	0.52	5.7	34
1090	Dithioerythritol, 1,4-	6892-68-8	1.2	13	79
1091	Diurethane dimethacrylate	72869-86-4	120	1,300	7,900
1092	Dodecamethylcyclohexasiloxane	540-97-6	150	1,700	9,900
1093	Dodecane	112-40-3	12	130	760
1094	Dodecanethiol, 1-; (Dodecyl mercaptan; Lauryl mercaptan)	112-55-0	2.5	4.1	25
1095	Dodecen-1-yl)succinic anhydride, (2-; (DDSA)	19780-11-1	30	330	2,000
1096	Dodeceny succine anhydride; (Tetrapropenylsuccinic anhydride)	26544-38-7	7.7	84	510
1097	Dodecenylsuccinic anhydride	25377-73-5	0.79	8.7	52
1098	Dodecyl alcohol	112-53-8	12	140	820
1099	Dodecyl methacrylate	142-90-5	72	790	4,800
1100	Dodecylbenzene sulfonic acid; (Laurylbenzenesulfonic acid)	27176-87-0	2	21	130
1101	Dodecylphenol, 4- (mixture of isomers)	27193-86-8	4.1	45	420
1102	Dodecylsarcosine sodium salt, N-; (N-Lauryl sarcosine sodium salt)	7631-98-3	0.59	6.5	39
1103	Dodecyltrichlorosilane	4484-72-4	7.5	91	410
1104	Dv methyl ester; (Methyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate)	61898-95-1	30	330	2,000
1105	Dysprosium	7429-91-6	30	330	2,000

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
1106	Dysprosium nickelide	12175-27-8	30	330	2,000
1107	Dysprosium nitrate	10143-38-1	7.2	79	470
1108	Dysprosium oxide; (Dysprosium(III) oxide)	1308-87-8	15	170	990
1109	Ecolite	z-0018	16	170	1,000
1110	Endosulfan	115-29-7	0.3	0.8	180
1111	Endothion	2778-04-3	1.5	17	100
1112	Endrin	72-20-8	1.8	20	2,000
1113	Epibatidine	140111-52-0	1.00E-04	0.0011	0.0068
1114	Epibromohydrin	3132-64-7	0.98	11	65
1115	Epichlorohydrin	106-89-8	6.4	91	270
1116	EPN; (O-Ethyl-O-(4-nitrophenyl) phenylthiophosphonate)	2104-64-5	0.45	5	50
1117	Epoxy resin includes EPON 1001, 1007, 820, ERL-2795	25068-38-6	90	990	5,900
1118	Epoxy resin, cured; (4,4'-(1-Methylethylidene)biscyclohexanol, polymer with (chloromethyl)oxirane)	30583-72-3	30	330	2,000
1119	Epoxy resin; (Bisphenol A-Bisphenol A diglycidyl ether polymer)	25036-25-3	12	130	790
1120	Epoxy resin; (Epichlorohydrin, polymer with diethylene glycol)	25928-94-3	1.2	13	79
1121	Epoxybutane, 1,2-; (1,2-Butylene oxide)	106-88-7	210	410	970
1122	Epoxyethyl-7-oxabicyclo(4.1.0)heptane, 3-; (Vinyl cyclohexene dioxide)	106-87-6	1.7	34	200

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
1123	Erbium nitrate pentahydrate	10031-51-3	1.4	15	88
1124	Erbium(III) nitrate	10168-80-6	1.1	12	70
1125	Erbium(III) nitrate hexahydrate	13476-05-6	1.4	15	91
1126	Erbium(III) oxide	12061-16-4	15	170	990
1127	Ergotamine tartrate	379-79-3	0.91	10	32
1128	Estane; (Polyurethane resin; Urethane rubber)	61789-63-7	30	330	2,000
1129	Ethanaminium, N,N,N-triethyl-, iodide (1:1); (Tetraethylammoniumiodide; Ammonium, tetraethyl-, iodide)	68-05-3	0.67	1.3	7.6
1130	Ethane	74-84-0	80,000	2.80E+05	4.90E+05
1131	Ethanedioic acid, dimethyl ester	553-90-2	2	22	130
1132	Ethanedithiol, 1,2-	540-63-6	0.56	6.2	37
1133	Ethanediy(bis)benzene, 1,1'-(1,2-; (Bibenzyl)	103-29-7	14	150	890
1134	Ethanediybis(N-(carboxymethyl)glycine), N,N'-1,2-, dipotassium salt	2001-94-7	1.5	16	97
1135	Ethanediybis(oxy)bisbenzene, 1,1'-(1,2-	104-66-5	30	330	2,000
1136	Ethanethiol, 2-[bis(1-methylethyl)amino]-; (Ethanethiol, 2-(Diisopropylamino)-	5842-07-9	0.016	0.18	1.1
1137	Ethanethiol; (Ethyl mercaptan)	75-08-1	2.5	300	910
1138	Ethanol, titanium(4+) salt	3087-36-3	30	330	2,000
1139	Ethanol: (Ethyl alcohol)	64-17-5	3,400	6,200	28,000

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
1140	Ethanolamine	141-43-5	15	420	2,500
1141	Ethenylsilanetriol triacetate	4130-08-9	30	330	2,000
1142	Ethidium bromide; (2,7-Diamino-10-ethyl-9-phenylphenanthridinium bromide)	1239-45-8	0.16	1.8	11
1143	Ethion	563-12-2	1.2	13	38
1144	Ethoxyethanol, 2-	110-80-5	55	3,700	22,000
1145	Ethoxyethoxy)ethanol, 2-(2-; (Carbitol cellosolve; Diethylene glycol monoethyl ether)	111-90-0	410	560	2,400
1146	Ethoxyethyl methacrylate, 2-	2370-63-0	120	1,300	7,900
1147	Ethoxyethylacetate, 2-	111-15-9	81	2,300	14,000
1148	Ethoxyimino)butyl)-5-(2-ethylthiopropyl)-3-hydroxycyclohex-2-en-1-one, 2-(1-; (Checkmate)	74051-80-2	9.6	110	630
1149	Ethoxylated alcohols, C16-18; (Nonionic surfactant)	68439-49-6	3.8	42	250
1150	Ethoxylated alcohols, C7-C21	68991-48-0	30	330	2,000
1151	Ethoxylated nonylphenol; (Nonyl phenyl polyethylene glycol ether)	9016-45-9	43	470	5,400
1152	Ethyl (or dimethyl) pyrrolidine	z-0020	30	330	2,000
1153	Ethyl acetate	141-78-6	4,300	6,000	36,000
1154	Ethyl acetoacetate	141-97-9	12	130	790
1155	Ethyl acrylate	140-88-5	34	150	980
1156	Ethyl alcohol-d; (Ethanol-d)	925-93-9	3,500	6,300	29,000

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
1157	Ethyl benzene	100-41-4	140	4,800	7,800
1158	Ethyl benzoate	93-89-0	6.3	69	420
1159	Ethyl bromoacetate	105-36-2	1.2	13	79
1160	Ethyl butyl ketone; (3-Heptanone)	106-35-4	350	2,300	14,000
1161	Ethyl chloride; (Chloroethane)	75-00-3	790	14,000	53,000
1162	Ethyl chloroacetate	105-39-5	0.54	5.9	36
1163	Ethyl chloroformate	541-41-3	0.65	7.1	21
1164	Ethyl ether	60-29-7	1,500	9,700	58,000
1165	Ethyl formate	109-94-4	300	4,000	24,000
1166	Ethyl hexanoic acid, 2-; (Butyl ethyl acetic acid)	149-57-5	15	99	590
1167	Ethyl isocyanate	109-90-0	0.009	0.099	0.29
1168	Ethyl lactate; (Ethyl (S)-(-)-lactate)	687-47-8	5.7	63	380
1169	Ethyl mercury chloride; (Chloroethyl mercury)	107-27-7	0.04	0.53	2.6
1170	Ethyl methacrylate; (2-Methyl-2-propenoic acid, ethyl ester)	97-63-2	26	280	1,700
1171	Ethyl methylphosphonic acid; (EMPA; VX acid; Ethyl methyl phosphonate; Ethyl methyl phosphonic acid)	1832-53-7	10	110	1,600
1172	Ethyl nitrite	109-95-5	0.33	3.6	22
1173	Ethyl O-2-diisopropylaminoethylmethylphosphonite, O-; (QL)	57856-11-8	30	330	2,000

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
1174	Ethyl propionate	105-37-3	26	290	1,700
1175	Ethyl S,S-dipropylphosphorodithioate, O-; (Mocap PC-84; Ethoprophos)	13194-48-4	0.14	1.6	9.3
1176	Ethyl sec-amyl ketone; (5-Methyl-3-heptanone)	541-85-5	160	2,700	16,000
1177	Ethyl silicate polymer; (Silicic acid, ethyl ester)	11099-06-2	30	330	2,000
1178	Ethyl trichlorosilane; (trichloroethylsilane)	115-21-9	4	49	220
1179	Ethyl-1,3-hexanediol, 2-; (Ethyl hexylene glycol)	94-96-2	41	450	540
1180	Ethyl-1-hexanol, 2-	104-76-7	0.53	530	1,100
1181	Ethyl-2-methylheptane, 3-	14676-29-0	1,300	2,200	29,000
1182	Ethyl-2-methyloctane, 6-	62016-19-7	1,500	2,500	32,000
1183	Ethyl-2-oxazoline, 2-	10431-98-8	120	1,300	7,900
1184	Ethyl-4-hydroxybenzoate; (p-Hydroxybenzoic acid ethyl ester); Ethylparaben	120-47-8	31	340	2,100
1185	Ethyl-5-methylheptane, 3-	52896-90-9	1,300	2,200	29,000
1186	Ethyl-6-methyl-4-phenyl-3-cyclohexene-1-carboxylic acid sodium salt, 5-; (Mebane sodium salt)	16550-39-3	30	330	2,000
1187	Ethylamine; (Monoethylamine; Ethylamine anhydrous)	75-04-7	14	90	500
1188	Ethylbenzaldehyde, 2-	22927-13-5	120	1,300	7,900
1189	Ethylchlorothioformate	2941-64-2	0.13	1.4	4.3
1190	Ethylchloroarsine; (Dichloroethylarsine)	598-14-1	0.0026	0.029	0.086

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
1191	Ethylene	74-85-1	690	7,600	46,000
1192	Ethylene chlorohydrin; (2-Chloroethanol)	107-07-3	0.35	3.9	12
1193	Ethylene dibromide; (Dibromoethane)	106-93-4	130	180	350
1194	Ethylene dichloride; (1,2-Dichloroethane)	107-06-2	200	810	1,200
1195	Ethylene fluorohydrin; (2-Fluoroethanol)	371-62-0	0.0064	0.07	0.93
1196	Ethylene glycol	107-21-1	76	380	2,300
1197	Ethylene glycol diacetate	111-55-7	21	230	1,400
1198	Ethylene glycol dimethacrylate	97-90-5	9.9	110	650
1199	Ethylene glycol dinitrate; ethanediol dinitrate, 1,2-	628-96-6	0.099	1.2	500
1200	Ethylene glycol monomethyl ether acetate; (EGMEA; 2-Methoxyethyl acetate)	110-49-6	1.4	3,200	19,000
1201	Ethylene glycol monomethyl ether; (2-Methoxyethanol; EGME; Methyl Cellosolve(R))	109-86-4	0.93	45	6,200
1202	Ethylene glycol monopropyl ether; (Propyl cellosolve; Ektasolve EP)	2807-30-9	9.3	100	610
1203	Ethylene glycol mono-sec-butyl ether	7795-91-7	2.4	26	160
1204	Ethylene oxide; (Oxirane)	75-21-8	9	81	360
1205	Ethylene/vinyl acetate copolmer	24937-78-8	30	330	2,000
1206	Ethylenediamine dihydrochloride	333-18-6	2.7	29	180
1207	Ethylenediamine, 1,2-	107-15-3	2.2	24	49

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
1208	Ethylenediaminetetraacetic acid, disodium salt	139-33-3	11	120	730
1209	Ethylenediaminetetraacetic acid, disodium salt, dihydrate	6381-92-6	30	330	2,000
1210	Ethylenediaminetetraacetic acid, ferric ammonium salt	21265-50-9	97	1,100	6,300
1211	Ethylenediaminetetraacetic acid, tetrasodium salt, dihydrate	10378-23-1	82	900	5,500
1212	Ethylenediaminetetraacetic acid, tetrasodium salt; (Tetrasodium EDTA)	64-02-8	75	830	5,000
1213	Ethylenediaminetetraacetic acid; (EDTA)	60-00-4	4.1	45	200
1214	Ethylenedinitrilo)tetra-2-propanol, 1,1',1'',1'''-(	102-60-3	34	370	2,200
1215	Ethyleneimine	151-56-4	0.18	8.1	17
1216	Ethylenethiourea; (2-Imidazolidinethione)	96-45-7	0.085	0.94	110
1217	Ethylheptane, 4-	2216-32-2	1,200	2,000	26,000
1218	Ethylhexyl acrylate, 2-; (Acrylic acid, 2-ethylhexyl ester)	103-11-7	110	870	1,100
1219	Ethylhexyl bromide, 2-	18908-66-2	30	330	2,000
1220	Ethylhexylchloroformate, 2-	24468-13-1	0.69	7.6	23
1221	Ethylhexyloxy)ethanol, 2-(2-	1559-35-9	9.2	100	610
1222	Ethylidene chloride, 1,1-; (1,1-Dichloroethane)	75-34-3	1,200	2,700	16,000
1223	Ethylidene norbornene	16219-75-3	0.98	490	2,500
1224	Ethylmagnesium chloride; (Chloroethyl magnesium)	2386-64-3	30	330	2,000

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
1225	Ethylphosphorodichloridate	1498-51-7	0.12	1.3	4
1226	Ethylthiocyanate	542-90-5	20	100	170
1227	Ethyltoluene, o-	611-14-3	20	220	1,300
1228	Ethyltoluene, p-	622-96-8	15	160	960
1229	Europium	7440-53-1	30	330	2,000
1230	Europium nitrate; (Europium trinitrate)	10138-01-9	11	130	760
1231	Europium oxide	1308-96-9	15	170	990
1232	Europium(II) iodide	22015-35-6	30	330	2,000
1233	Farnesol	4602-84-0	18	200	1,200
1234	Fatty acids, tall-oil, polymers with glycerol, pentaerythritol and phthalic anhydride	66070-62-0	12	130	790
1235	Fenamiphos	22224-92-6	0.15	0.9	3.1
1236	Fensulfothion	115-90-2	0.18	2	3.1
1237	Fenthion	55-38-9	0.15	5.9	35
1238	Ferric ammonium sulfate dodecahydrate	7783-83-7	26	280	1,700
1239	Ferric ammonium sulfate; (Sulfuric acid, ammonium iron(3e+) salt (2:1:1))	10138-04-2	14	160	950
1240	Ferric chloride	7705-08-0	8.7	30	180
1241	Ferric chloride hexahydrate	10025-77-1	15	39	240

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
1242	Ferric fluoride	7783-50-8	6.1	22	130
1243	Ferric hydroxide; (Iron(III) hydroxide)	1309-33-7	30	330	2,000
1244	Ferric nitrate	10421-48-4	13	140	850
1245	Ferric nitrate nonahydrate; (Iron(III) nitrate nonahydrate (1:3:9))	7782-61-8	22	110	640
1246	Ferric phosphate	10045-86-0	8.1	89	530
1247	Ferric sulfate; (Iron(III) sulfate)	10028-22-5	11	120	710
1248	Ferrous ammonium sulfate	10045-89-3	15	170	1,000
1249	Ferrous carbonate	563-71-3	6.2	69	410
1250	Ferrous chloride	7758-94-3	6.8	76	460
1251	Ferrous disulfide; (Iron disulfide)	12068-85-8	30	330	2,000
1252	Ferrous hydroxide; (Iron(II) hydroxide)	18624-44-7	30	330	2,000
1253	Ferrous Oxalate; (Iron(II) oxalate)	516-03-0	7.7	86	510
1254	Ferrous sulfamate	14017-39-1	8.4	92	550
1255	Ferrous sulfate	7720-78-7	8.2	41	250
1256	Ferrous sulfate heptahydrate	7782-63-0	15	170	990
1257	Fibrous glass; (Fiber glass; Glass frit; Synthetic vitreous fibers)	65997-17-3	15	170	990
1258	Fluonetil	4301-50-2	0.55	6	9.1

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
1259	Fluoboric acid; (Tetrafluoroboric acid)	16872-11-0	8.7	97	580
1260	Fluoranthene	206-44-0	8.2	90	400
1261	Fluorene, 9H-	86-73-7	6.6	72	430
1262	Fluorides (as F)	16984-48-8	7.5	83	500
1263	Fluorine	7782-41-4	2.6	7.8	20
1264	Fluoro-2-nitrobenzene, 1-; (o-Fluoronitrobenzene)	1493-27-2	12	130	790
1265	Fluoro-4-nitrophenol, 2-	403-19-0	12	130	790
1266	Fluoro-6-nitrophenol, 2-	1526-17-6	120	1,300	7,900
1267	Fluoroacetamide	640-19-7	0.53	5.8	19
1268	Fluoroacetic acid, sodium salt; (Sodium fluoroacetate)	62-74-8	0.15	0.5	5
1269	Fluoroacetic acid; (Fluoroethanoic acid)	144-49-0	0.043	0.47	0.93
1270	Fluoroacetyl chloride	359-06-8	0.91	10	60
1271	Fluoroaniline, p-	371-40-4	1.3	14	83
1272	Fluorobenzene	462-06-6	30	330	1,200
1273	Fluorosulfonic acid; (Fluorosulfuric acid)	7789-21-1	2	10	30
1274	Fluorotrimethylsilane	420-56-4	120	1,300	7,900
1275	Fluorouracil	51-21-8	1.7	19	46

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
1276	Fonofos	944-22-9	0.3	1.3	53
1277	Forane	26675-46-7	160	1,700	4,600
1278	Formaldehyde	50-00-0	1.1	17	69
1279	Formaldehyde cyanohydrin; (Hydroxyacetoneitrile; Glycolonitrile)	107-16-4	0.55	6	25
1280	Formamide	75-12-7	55	200	1,200
1281	Formetanate hydrochloride	23422-53-9	0.12	1.3	7.9
1282	Formic acid	64-18-6	5.6	47	470
1283	Formic acid, 2-propenyl ester; (Allyl formate)	1838-59-1	0.65	7.2	43
1284	Formic acid, butyl ester; (n-Butyl formate)	592-84-7	19	210	1,300
1285	Formothion	2540-82-1	2.1	24	140
1286	Formparanate	17702-57-7	0.65	7.2	43
1287	Formylpiperidine, 1-	2591-86-8	2.7	29	180
1288	Fosthietan	21548-32-3	0.43	4.7	28
1289	Fuberidazole	3878-19-1	0.3	3.3	15
1290	Fulminic acid; (Carbyloxime)	506-85-4	1.2	13	79
1291	Furan	110-00-9	1.7	19	53
1292	Furancarboxaldehyde, 2-; (Furfural)	98-01-1	7.9	39	390

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
1293	Furancarboxylic acid, ethyl ester, 2-; (Ethyl furoate)	614-99-3	0.59	6.5	39
1294	Furfuryl alcohol	98-00-0	60	170	1,000
1295	Fusariotoxin T2; (T2-Trichothecene)	21259-20-1	0.0014	0.015	0.093
1296	Gadolinium	7440-54-2	30	330	2,000
1297	Gadolinium chloride hexahydrate	13450-84-5	2.2	24	140
1298	Gadolinium hydroxide	16469-18-4	12	130	790
1299	Gadolinium nitrate, solid	10168-81-7	11	130	750
1300	Gadolinium nitrite	z-0022	30	330	2,000
1301	Gadolinium(III) oxide	12064-62-9	15	170	990
1302	Gallic acid monohydrate	5995-86-8	18	190	1,200
1303	Gallium	7440-55-3	30	330	2,000
1304	Gallium oxide	12024-21-4	16	180	1,100
1305	Gallium trichloride	13450-90-3	2.9	32	930
1306	Gallium trifluoride	7783-51-9	17	180	1,100
1307	Gasoline	86290-81-5	590	2,900	12,000
1308	Germane; (Germanium tetrahydride)	7782-65-2	0.048	0.53	1.6
1309	Germanium	7440-56-4	3.2	35	170

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
1310	Germanium oxide	1310-53-8	3.8	41	250
1311	Germanium tetrafluoride	7783-58-6	15	160	980
1312	Germanous acid	z-0023	30	330	2,000
1313	Giemsa's stain; (Blood stain)	51811-82-6	30	330	2,000
1314	Gluconic acid, D-	526-95-4	30	330	2,000
1315	Gluteraldehyde	111-30-8	0.82	4.1	20
1316	Glycerine (mist); (Glycerol; Glycerin)	56-81-5	45	180	1,100
1317	Glycerine carbonate; (4-Hydroxymethyl-1,3-dioxolan-2-one)	931-40-8	30	330	2,000
1318	Glyceryl monostearate; (Octadecanoic acid, monoester with 1,2,3-propanetriol)	31566-31-1	0.66	7.2	43
1319	Glycidaldehyde	765-34-4	1.1	13	75
1320	Glycidol; (Oxiranemethanol, 1-Propanol, 2,3-epoxy)	556-52-5	18	250	1,500
1321	Glycidoxypropyltrimethoxysilane; (3-(2,3-Epoxypropoxy) propyltrimethoxysilane)	2530-83-8	9.3	100	230
1322	Glycidyl acrylate; (2,3-Epoxypropyl acrylate)	106-90-1	0.43	4.7	28
1323	Glycol carbonate; (Ethylene carbonate)	96-49-1	30	330	2,000
1324	Glycolic acid; (Hydroxyacetic acid)	79-14-1	25	280	390
1325	Glycols, polyethylene, dimethyl ether	24991-55-7	37	400	2,000
1326	Glycols, polyethylene, mono(p-nonylphenyl) ether	26027-38-3	4.5	49	300

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
1327	Glycoluril; (Acetyleneurea)	496-46-8	30	330	2,000
1328	Glyoxal; (Ethanedione, 1, 2-)	107-22-2	0.3	46	280
1329	Gold	7440-57-5	0.46	5.1	30
1330	Guanidine hydrochloride	50-01-1	1.4	16	94
1331	Guanidine, N-methyl-N'-nitro-N-nitroso-	70-25-7	0.27	3	18
1332	Hafnium	7440-58-6	1.5	17	99
1333	Hafnium oxide	12055-23-1	1.8	19	120
1334	Halon 1211; (Bromochlorodifluoromethane)	353-59-3	86	940	9,400
1335	Hansa yellow	13515-40-7	30	330	2,000
1336	HCFC-123; (Dichloro-1,1,1-trifluoroethane, 2,2-)	306-83-2	940	6,300	63,000
1337	HCFC-141b; (Dichloro-1-fluoroethane, 1,1-, Freon 141)	1717-00-6	4,800	8,100	14,000
1338	Helium	7440-59-7	11,000	38,000	65,000
1339	Heptachlor	76-44-8	0.15	14	700
1340	Heptachlor epoxide; (Epoxyheptachlor)	1024-57-3	0.15	0.5	3
1341	Heptachlorodibenzofuran, 1,2,3,4,6,7,8-; (HeptaCDF, 1,2,3,4,6,7,8-)	67562-39-4	0.013	0.14	0.85
1342	Heptachlorodibenzofuran, 1,2,3,4,7,8,9-; (HeptaCDF, 1,2,3,4,7,8,9-)	55673-89-7	0.013	0.14	0.85
1343	Heptachlorodibenzo-p-dioxin, 1,2,3,4,6,7,8-; (HeptaCDD, 1,2,3,4,6,7,8-)	35822-46-9	0.013	0.14	0.85

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
1344	Heptadecane	629-78-7	43	470	2,800
1345	Heptafluorobutyric acid	375-22-4	0.5	5.5	33
1346	Heptafluorotetrahydro-5-(nonafluorobutyl)furan, 2,2,3,3,4,4,5-; (Perfluoro-2-butyltetrahydrofuran; Fluorinert FC-75)	335-36-4	10	110	680
1347	Heptane	142-82-5	2,000	3,300	20,000
1348	Heptanoic acid	111-14-8	21	230	1,400
1349	Heptanol, 1-; (Heptyl alcohol)	111-70-6	10	120	640
1350	Heptene, 1-	592-76-7	530	5,800	35,000
1351	Hexacarbonylchromium; (Chromium hexacarbonyl)	13007-92-6	0.13	11	66
1352	Hexachloroacetone	116-16-5	0.22	2.4	29
1353	Hexachlorobenzene	118-74-1	0.006	14	91
1354	Hexachlorobutadiene	87-68-3	11	32	110
1355	Hexachlorocyclopentadiene	77-47-4	0.33	6.1	11
1356	Hexachlorodibenzodioxin, 1,2,3,4,7,8-; (HexaCDD, 1,2,3,4,7,8-)	39227-28-6	0.0013	0.014	0.085
1357	Hexachlorodibenzofuran, 1,2,3,4,7,8-	70648-26-9	0.0013	0.014	0.085
1358	Hexachlorodibenzofuran, 1,2,3,6,7,8-	57117-44-9	0.0013	0.014	0.085
1359	Hexachlorodibenzofuran, 1,2,3,7,8,9-; (HexaCDF, 1,2,3,7,8,9-)	72918-21-9	0.0013	0.014	0.085
1360	Hexachlorodibenzofuran, 2,3,4,6,7,8-	60851-34-5	0.0013	0.014	0.085

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
1361	Hexachlorodibenzo-p-dioxin, 1,2,3,6,7,8-	57653-85-7	0.0013	0.014	0.085
1362	Hexachlorodibenzo-p-dioxin, 1,2,3,7,8,9-; (HexaCDD, 1,2,3,7,8,9-)	19408-74-3	0.0013	0.014	0.085
1363	Hexachloroethane	67-72-1	29	350	2,900
1364	Hexachloronaphthalene	1335-87-1	0.6	6.6	40
1365	Hexachloropropene	1888-71-7	0.91	10	60
1366	Hexadecanamine, 1-	143-27-1	0.66	7.2	43
1367	Hexadecane	544-76-3	35	380	2,800
1368	Hexadecanoic acid; (Palmitic acid)	57-10-3	0.19	2.1	12
1369	Hexadecanol, 1-	36653-82-4	1.6	18	110
1370	Hexadecene, 1-	629-73-2	4.2	47	280
1371	Hexadecylpyridinium chloride, 1-; (Cepacol chloride)	123-03-5	0.06	0.66	4
1372	Hexadecyltrimethylammonium chloride	112-02-7	1.1	12	70
1373	Hexafluoro-2-propanol, 1,1,1,3,3,3-	920-66-1	9.1	100	600
1374	Hexafluoroacetone	684-16-2	0.13	1.4	540
1375	Hexafluorobenzene	392-56-3	50	550	3,300
1376	Hexafluorobutyne-2; (1,1,1,4,4,4-Hexafluoro-2-butyne)	692-50-2	0.36	3.9	24
1377	Hexafluoroethane; (Freon 116; Perfluoroethane)	76-16-4	580	6,400	38,000

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
1378	Hexafluoropropylene; (Hexafluoropropene)	116-15-4	250	560	2,900
1379	Hexafluoropropylene-vinylidene fluoride polymer; (Viton)	9011-17-0	30	330	2,000
1380	Hexamethylcyclotrisiloxane	541-05-9	12	130	790
1381	Hexamethyldisilazane	999-97-3	2.5	28	170
1382	Hexamethyldisiloxane	107-46-0	84	930	970
1383	Hexamethylene diisocyanate polymer	28182-81-2	7.8	86	510
1384	Hexamethylene diisocyanate; (1,6-Diisocyanatohexane)	822-06-0	0.13	1.4	20
1385	Hexamethyleneimine	111-49-9	5.7	63	380
1386	Hexamethylenetetraamine hydrochloride	58713-21-6	30	330	2,000
1387	Hexamethylenetetraamine; (Methenamine)	100-97-0	55	610	3,600
1388	Hexamethylphosphoramide	680-31-9	2.5	27	130
1389	Hexamethyltetracosane, 2,6,10,15,19,23-; (Squalane)	111-01-3	12	130	790
1390	Hexanal	66-25-1	25	270	350
1391	Hexane	110-54-3	910	10,000	30,000
1392	Hexanediol diacrylate, 1,6-	13048-33-4	3	170	990
1393	Hexanediol, 1,6-; (Hexamethylene glycol)	629-11-8	30	610	730
1394	Hexanenitrile	628-73-9	0.76	8.4	50

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
1395	Hexanethiol, 1-; (N-Hexylmercaptan)	111-31-9	0.22	2.4	230
1396	Hexanoic acid; (caproic acid)	142-62-1	2.2	24	140
1397	Hexanol, 2-; (2-Hydroxyhexane)	626-93-7	12	130	790
1398	Hexanol, n-; (n-Hexyl alcohol)	111-27-3	43	470	2,400
1399	Hexanone, 2-; (Methyl n-butyl ketone)	591-78-6	41	3,300	20,000
1400	Hexanone, 3-; (Ethyl propyl ketone)	589-38-8	11	120	700
1401	Hexanoyl chloride	142-61-0	1.2	13	79
1402	Hexaphenylcyclotrisiloxane	512-63-0	12	130	790
1403	Hexene, 1-	592-41-6	520	1,700	17,000
1404	Hexylene glycol	107-41-5	11	120	730
1405	Hexyltrichlorosilane	928-65-4	5.4	66	300
1406	HFC 134a; (Tetrafluoroethane, 1,1,1,2-)	811-97-2	33,000	54,000	1.10E+05
1407	HFO-1234yf; 2,3,3,3-Tetrafluoropropene	754-12-1	10,000	1.10E+05	6.60E+05
1408	HFO-1234ze; 1,3,3,3-Tetrafluoropropylene	29118-24-9	6,400	70,000	3.20E+05
1409	Holmium	7440-60-0	12	130	790
1410	Holmium trioxide	12055-62-8	30	330	2,000
1411	Hydrazine	302-01-2	0.13	17	46

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
1412	Hydrazine hydrate; (Hydrazine monohydrate; aqueous solutions - 10217-52-4)	7803-57-8	0.16	20	55
1413	Hydrazine hydrochloride; (Hydrazine monochloride)	2644-70-4	0.33	3.7	22
1414	Hydrazine nitrate; (Hydrazinium nitrate)	13464-97-6	0.3	39	100
1415	Hydrazine sulfate	10034-93-2	0.5	5.5	33
1416	Hydrazine, dihydrochloride	5341-61-7	1.8	20	120
1417	Hydrogen	1333-74-0	5,400	19,000	33,000
1418	Hydrogen bromide; (Hydrobromic acid)	10035-10-6	3.3	130	400
1419	Hydrogen chloride; (Hydrochloric acid)	7647-01-0	2.7	33	150
1420	Hydrogen cyanide; (Hydrocyanic acid)	74-90-8	2.2	7.8	17
1421	Hydrogen fluoride; (Hydrofluoric acid)	7664-39-3	0.82	20	36
1422	Hydrogen iodide; (Hydriodic acid)	10034-85-2	5.2	130	630
1423	Hydrogen peroxide	7722-84-1	14	70	140
1424	Hydrogen potassium phthalate; (Phthalic acid, monopotassium salt; Potassium acid phthalate; Potassium biphthalate)	877-24-7	9.6	110	630
1425	Hydrogen selenide	7783-07-5	0.15	0.36	1.1
1426	Hydrogen sulfide	7783-06-4	0.71	38	70
1427	Hydrogenated terphenyl	61788-32-7	18	580	3,500
1428	Hydroquinone	123-31-9	3	20	120

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
1429	Hydroxy-2-methylpropanoic acid, 2-; (2-Methylactic acid)	594-61-6	30	330	2,000
1430	Hydroxy-4'-hydroxyethoxy-2-methylpropiophenone, 2-	106797-53-9	12	130	810
1431	Hydroxy-4-methyl-2-pentanone, 4-; (Diacetone alcohol)	123-42-2	710	1,700	10,000
1432	Hydroxyapatite; (Calcium hydroxyapatite)	1306-06-5	190	2,100	12,000
1433	Hydroxybenzenesulfonic acid, 4-; (4-Hydroxyphenylsulfonic acid)	98-67-9	10	120	690
1434	Hydroxybenzoic acid, 4-; (p-Salicylic acid)	99-96-7	15	110	240
1435	Hydroxybenzotriazole, 1-; (1-Hydroxybenzotriazole hydrate)	2592-95-2	20	220	1,300
1436	Hydroxyethyl acrylate, 2-; (Acrylic acid, 2-hydroxyethyl ester)	818-61-1	0.49	5.4	100
1437	Hydroxyethyl methacrylate, 2-	868-77-9	1.9	21	1,000
1438	Hydroxyethyl)-1-piperazineethanesulfonic acid, 4-(2-	7365-45-9	30	330	2,000
1439	Hydroxyethylenediaminetriacetic acid, N-	150-39-0	2	22	130
1440	Hydroxyethylidene-1,1-diphosphonic acid, 1-; (Hydroxyethylidene bisphosphonic acid, 1-)	2809-21-4	7.2	79	480
1441	Hydroxylamine	7803-49-8	0.35	3.9	23
1442	Hydroxylamine chloride; (Hydroxylamine hydrochloride)	5470-11-1	0.42	4.7	28
1443	Hydroxylamine nitrate	13465-08-2	0.24	37	140
1444	Hydroxylamine sulfate; (Oxammonium sulfate)	10039-54-0	2.8	31	190
1445	Hydroxymethanesulfinic acid, monosodium salt; (Formaldehyde hydrosulfite)	149-44-0	6.6	72	430

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
1446	Hydroxy-N-phenylbenzamide, N-; (Phenylbenzohydroxamic acid, N-)	304-88-1	30	330	2,000
1447	Hydroxyphenyl)benzothiazole, 2-(2-	3411-95-8	17	190	1,100
1448	Hydroxyphenylacetic acid, alpha-	90-64-2	25	270	1,600
1449	Hydroxyquinoline sulfate, 8-	134-31-6	3.6	40	240
1450	Hypophosphorous acid-d3; (Hydrophosphorus acid-d3 solution, 50 wt.% in D2O)	57583-56-9	30	330	2,000
1451	Hypophosphorus acid; (Phosphonic acid)	6303-21-5	30	330	2,000
1452	Imidazole	288-32-4	0.66	7.3	44
1453	Imidazole hydrochloride	1467-16-9	12	130	790
1454	Iminodiacetic acid	142-73-4	0.82	9	54
1455	Iminodiacetic acid, disodium salt hydrate	17593-73-6	12	130	790
1456	Indan	496-11-7	20	220	1,300
1457	Indene	95-13-6	71	100	620
1458	Indeno(1,2,3-cd)pyrene	193-39-5	1.2	13	79
1459	Indigo carmine; (FD&C blue No 2)	860-22-0	6	66	400
1460	Indium	7440-74-6	0.3	3.3	20
1461	Indium oxide (vapor); (Diindium monoxide)	12030-22-7	0.33	3.6	22
1462	Indium sulfate	13464-82-9	0.68	7.6	46

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
1463	Indium trichloride	10025-82-8	0.58	6.3	38
1464	Indium(III) oxide	1312-43-2	0.36	4.8	29
1465	Indole-3-carboxaldehyde, 1H-; (3-Formylindole)	487-89-8	2.6	29	170
1466	Iodic acid	7782-68-5	0.15	1.7	10
1467	Iodine	7553-56-2	1	5.2	52
1468	Iodine 125	17144-19-3	1	5.1	51
1469	Iodobenzene	591-50-4	5.4	59	360
1470	Iodoethane; (Ethyl iodide)	75-03-6	14	150	900
1471	Iodoheptafluoropropane, 1-; (Heptafluoropropyl iodide)	754-34-7	210	2,400	14,000
1472	Iodopentane, 1-	628-17-1	0.38	63	380
1473	Iotalamic acid	2276-90-6	120	1,300	7,800
1474	Iridium	7439-88-5	4.7	51	310
1475	Iron	7439-89-6	3.2	35	150
1476	Iron carbide	12011-67-5	16	180	1,100
1477	Iron hydroxide oxide	20344-49-4	24	260	1,600
1478	Iron oxide; (Ferric oxide)	1309-37-1	15	360	2,200
1479	Iron pentacarbonyl	13463-40-6	0.044	0.48	1.4

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
1480	Iron sulfide	1317-37-9	30	330	2,000
1481	Iron(II) chloride tetrahydrate	13478-10-9	11	120	710
1482	Iron(II) oxide; (Ferrous oxide)	1345-25-1	45	500	3,000
1483	Iron(II) perchlorate hexahydrate	13520-69-9	19	210	1,200
1484	Iron(II,III) oxide; (Ferrosoferric oxide)	1317-61-9	21	230	1,400
1485	Iron(III) perchlorate	13537-24-1	19	210	1,200
1486	Iron(III) sulfate heptahydrate	35139-28-7	28	310	1,900
1487	Isoamyl acetate; (Isopentyl acetate)	123-92-2	530	2,700	16,000
1488	Isoamyl alcohol (primary); (3-Methyl-1-butanol); includes Isoamyl alcohol (584-02-1), 2-pentanol (6032-29-7), amyl alcohol (71-41-0), and 2-methyl-2-butanol (75-85-4)	123-51-3	450	6,000	36,000
1489	Isoamyl nitrite; (Isopentyl nitrite)	110-46-3	2.3	25	150
1490	Isobenzan	297-78-9	0.01	0.11	0.66
1491	Isobutanol-2-amine	124-68-5	17	190	570
1492	Isobutyl acetate	110-19-0	2,100	6,000	36,000
1493	Isobutyl alcohol	78-83-1	450	4,000	24,000
1494	Isobutyl chloride; (1-Chloro-2-methylpropane)	513-36-0	120	1,300	7,900
1495	Isobutyl chloroformate	543-27-1	3.3	12	37
1496	Isobutyl isobutyrate	97-85-8	23	250	1,500

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
1497	Isobutylamine	78-81-9	18	30	45
1498	Isobutyraldehyde	78-84-2	220	230	1,400
1499	Isobutyric acid	79-31-2	0.84	9.2	55
1500	Isobutyric anhydride; (2-Methylpropionic anhydride)	97-72-3	1.2	13	79
1501	Isobutyronitrile	78-82-0	0.51	5.6	17
1502	Isocyanatoethyl methacrylate, 2-	30674-80-7	0.057	0.63	6.3
1503	Isocyanic acid	75-13-8	3.5	12	26
1504	Isocyanic acid, 3,4-dichlorophenyl ester; (3,4-Dichlorophenyl isocyanate)	102-36-3	1.3	14	120
1505	Isodrin	465-73-6	0.64	7	42
1506	Isonate 181 MDI prepolymer	z-0113	0.45	5.5	55
1507	Isooctane; (2,2,4-Trimethylpentane)	540-84-1	1,100	3,800	23,000
1508	Isopentane; (Ethylidimethylmethane; 2-Methylbutane)	78-78-4	8,800	96,000	5.70E+05
1509	Isophorone	78-59-1	68	180	1,100
1510	Isophorone diisocyanate	4098-71-9	0.18	1.23	5.4
1511	Isophthalic acid; (Phthalic acid, m isomer)	121-91-5	30	340	2,100
1512	Isoprene	78-79-5	14	2,800	11,000
1513	Isopropyl acetate	108-21-4	840	11,000	67,000

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
1514	Isopropyl alcohol	67-63-0	980	4,800	29,000
1515	Isopropyl chloride; (2-Chloropropane)	75-29-6	480	880	5,300
1516	Isopropyl chloroformate; (Isopropyl chlorocarbonate)	108-23-6	1.5	17	50
1517	Isopropyl ether; (Diisopropyl ether)	108-20-3	1,300	7,000	42,000
1518	Isopropyl nitrate	1712-64-7	64	210	1,300
1519	Isopropyl titanate(IV); (Titanium(IV) isopropoxide)	546-68-9	22	250	1,500
1520	Isopropylamine; (2-Propanamine)	75-31-0	24	1,600	9,700
1521	Isopropylmagnesium chloride; (Chloro(1-methylethyl)magnesium)	1068-55-9	1.2	13	79
1522	Isopropylmethylpyrazolyl dimethylcarbamate; (Isolan)	119-38-0	0.51	5.6	34
1523	Isopropyltoluene, 4-; (p-Cymene)	99-87-6	120	1,300	1,900
1524	Jeffamine M-600	77110-54-4	30	330	2,000
1525	Jet fuels, (JP-5 and JP-8); (Kerosene, 8008-20-6, Fuel Oil No. 1)	70892-10-3	290	1,100	4,800
1526	Kepone; (Chlordecone)	143-50-0	1.6	17	100
1527	Ketene; (Carbomethene, Ethenone)	463-51-4	0.01	0.11	0.33
1528	Krypton	7439-90-9	2.20E+05	7.90E+05	1.40E+06
1529	Lactic acid, sodium salt, DL-; (Propanoic acid, 2-hydroxy-, monosodium salt)	312-85-6	30	330	2,000
1530	Lactonitrile	78-97-7	0.24	2.6	16

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
1531	Lanthanum	7439-91-0	30	330	2,000
1532	Lanthanum alizarin	z-0026	30	330	2,000
1533	Lanthanum boride	12008-21-8	30	330	2,000
1534	Lanthanum carbonate	6487-39-4	30	330	2,000
1535	Lanthanum chloride	10099-58-8	7.1	78	470
1536	Lanthanum fluoride	13709-38-1	26	280	1,700
1537	Lanthanum hydroxide	14507-19-8	1.2	13	79
1538	Lanthanum nitrate	10099-59-9	14	150	890
1539	Lanthanum oxide	1312-81-8	4	44	270
1540	Lanthanum phosphate	14913-14-5	12	130	790
1541	Lanthanum(III) nitrate hexahydrate	10277-43-7	1.3	15	89
1542	Laromin C 260; (bis(4-Amino-3-methylcyclohexyl) methane; Dimethyldicyane)	6864-37-5	0.28	3.1	19
1543	Lauryl sulfate; (Dodecyl sulfate)	151-41-7	3.9	43	260
1544	Lead	7439-92-1	0.15	120	700
1545	Lead acetate(II), trihydrate; (Bis(acetato)trihydroxytrilead)	6080-56-4	14	150	920
1546	Lead acetate, basic; (Lead subacetate)	1335-32-6	5.4	59	360
1547	Lead acetate; (Lead diacetate)	301-04-2	5	55	330

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
1548	Lead acid arsenate; (Dibasic lead arsenate)	7784-40-9	7	77	460
1549	Lead arsenate; (Trilead diarsenate)	3687-31-8	9.1	100	600
1550	Lead bromide	10031-22-8	0.27	200	1,200
1551	Lead carbonate	598-63-0	0.19	24	900
1552	Lead chloride	7758-95-4	0.2	160	940
1553	Lead chromate	7758-97-6	0.036	16	97
1554	Lead dioxide	1309-60-0	0.17	140	810
1555	Lead fluoborate	13814-96-5	0.28	220	1,300
1556	Lead fluoride	7783-46-2	0.18	140	830
1557	Lead hydroxide	19783-14-3	0.17	140	810
1558	Lead iodide	10101-63-0	0.33	270	1,600
1559	Lead nitrate	10099-74-8	0.24	180	1,100
1560	Lead nitrite	13826-65-8	0.22	170	1,000
1561	Lead oxalate	814-93-7	11	120	700
1562	Lead oxide; (Lead monoxide)	1317-36-8	0.16	130	750
1563	Lead phosphate	7446-27-7	0.2	150	910
1564	Lead sulfate; (Sulfuric acid, lead(2+) salt (1:1))	7446-14-2	0.22	170	1,000

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
1565	Lead sulfide	1314-87-0	0.17	140	810
1566	Lead tetroxide	1314-41-6	0.17	130	770
1567	Lead(II) arsenite	10031-13-7	4.2	47	280
1568	Lead(II) perchlorate trihydrate	13453-62-8	0.33	270	1,600
1569	Leco set 7007 powder	z-0027	30	330	2,000
1570	Leptophos; (Fosvel)	21609-90-5	2.7	30	53
1571	Lewisite 1; (Chlorovinylarsine dichloride)	541-25-3	0.023	0.25	0.74
1572	Lewisite 2; (Bis(2-chlorovinyl)chloroarsine)	40334-69-8	0.023	0.25	0.74
1573	Lewisite 3; (Tris(2-chlorovinyl)arsine)	40334-70-1	0.023	0.25	0.74
1574	Lignosulfonate (aqueous)	8062-15-5	30	330	2,000
1575	Limonene, d-	5989-27-5	84	370	940
1576	Lindane; (gamma-Benzenehexachloride); includes the isomers (319-84-6, 319-85-7, 608-73-1)	58-89-9	9.1	100	1,000
1577	Liquified petroleum gas; (L.P.G.)	68476-85-7	1.20E+05	4.10E+05	7.20E+05
1578	Lithium	7439-93-2	3.3	36	220
1579	Lithium acetate dihydrate	6108-17-4	3.2	36	210
1580	Lithium aluminate	12003-67-7	37	400	2,400
1581	Lithium aluminum oxide; (Lithium aluminate)	11089-89-7	28	310	1,800

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
1582	Lithium aluminum silicate; (Petalite)	1302-66-5	34	360	2,200
1583	Lithium azide	19597-69-4	30	330	2,000
1584	Lithium borohydride; (Lithium tetrahydroborate)	16949-15-8	2.2	24	150
1585	Lithium bromide	7550-35-8	3.9	42	250
1586	Lithium carbonate	554-13-2	3.1	34	210
1587	Lithium chloride	7447-41-8	2.3	25	150
1588	Lithium chromate; (Lithium chromium oxide)	14307-35-8	0.37	6.5	39
1589	Lithium deuteride	13587-16-1	0.025	0.1	0.5
1590	Lithium diisopropylamide; (LDA)	4111-54-0	30	330	2,000
1591	Lithium fluoride	7789-24-4	10	110	680
1592	Lithium hexafluorophosphate	21324-40-3	7.5	83	500
1593	Lithium hydride	7580-67-8	0.025	0.1	0.5
1594	Lithium hydroxide	1310-65-2	0.091	1	42
1595	Lithium hydroxide monohydrate	1310-66-3	0.16	1.8	74
1596	Lithium iodide	10377-51-2	30	330	2,000
1597	Lithium metaborate, anhydrous	13453-69-5	6	77	460
1598	Lithium molybdate	13568-40-6	2.7	30	180

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
1599	Lithium niobium oxide; (Lithium niobate)	12031-63-9	32	350	2,100
1600	Lithium nitrate	7790-69-4	30	330	2,000
1601	Lithium nitride	26134-62-3	43	230	1,600
1602	Lithium nitrite	13568-33-7	30	330	2,000
1603	Lithium oxide	12057-24-8	0.091	1	6
1604	Lithium perchlorate, anhydrous	7791-03-9	1.2	13	79
1605	Lithium silicon	68848-64-6	46	500	3,100
1606	Lithium stearate	4485-12-5	45	500	3,000
1607	Lithium sulfate	10377-48-7	1.8	20	120
1608	Lithium tetraborate	12007-60-2	4.3	47	280
1609	Lithium tetraborate pentahydrate	1303-94-2	6.6	72	430
1610	Lithium tetrahydroaluminate(1-); (Lithium aluminum hydride)	16853-85-3	8.4	92	550
1611	Lithium triethylborodeuteride; (Super-deuteride)	74540-86-6	30	330	2,000
1612	Lithium triethylborohydride; (Super-hydride)	22560-16-3	1.2	13	79
1613	Lutetium	7439-94-3	30	330	2,000
1614	Lutetium oxide	12032-20-1	30	330	2,000
1615	Lutidine, 2,6-; (2,6-Dimethylpyridine)	108-48-5	130	1,500	8,900

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
1616	Magnesium	7439-95-4	18	200	1,200
1617	Magnesium acetate	142-72-3	26	280	1,700
1618	Magnesium acetate tetrahydrate	16674-78-5	46	490	3,000
1619	Magnesium aluminum phosphide	z-0116	0.48	5.3	9.5
1620	Magnesium carbonate hydroxide	7760-50-1	30	330	2,000
1621	Magnesium carbonate; (Magnesite)	546-93-0	45	260	1,600
1622	Magnesium carbonate-magnesium hydroxide, pentahydrate	39409-82-0	45	500	3,000
1623	Magnesium chloride	7786-30-3	11	120	550
1624	Magnesium chloride hexahydrate	7791-18-6	34	370	1,600
1625	Magnesium ethoxide	2414-98-4	30	330	2,000
1626	Magnesium fluoride	7783-40-6	12	140	820
1627	Magnesium formate	557-39-1	30	330	2,000
1628	Magnesium hydroxide	1309-42-8	26	280	1,700
1629	Magnesium iodate tetrahydrate	7790-32-1	30	330	2,000
1630	Magnesium nitrate; (Magnesium(II) nitrate (1:2))	10377-60-3	30	330	2,000
1631	Magnesium oxide	1309-48-4	30	120	730
1632	Magnesium phosphide	12057-74-8	0.5	5.5	9.9

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
1633	Magnesium silicate hydrate	1343-90-4	120	1,300	7,900
1634	Magnesium silicate; (Florisol)	1343-88-0	120	1,300	7,900
1635	Magnesium sulfate (1:1)	7487-88-9	20	220	1,300
1636	Magnesium sulfate heptahydrate	10034-99-8	33	370	2,300
1637	Magnesium(II) nitrate (1:2), hexahydrate	13446-18-9	16	180	1,100
1638	Malathion	121-75-5	15	120	390
1639	Maleic acid	110-16-7	2.1	23	140
1640	Maleic acid, disodium salt	371-47-1	13	150	880
1641	Maleic anhydride	108-31-6	0.8	8	80
1642	Maleic hydrazide; (3,6-Pyridazinedione, 1,2-dihydro-)	123-33-1	11	130	750
1643	Malic acid; (Malic acid, DL)	6915-15-7	4.8	53	320
1644	Malonic acid; (Carboxyacetic acid)	141-82-2	20	230	590
1645	Mancozeb; (Dithane M-45)	8018-01-7	3	56	990
1646	Manganese	7439-96-5	3	5	1,800
1647	Manganese carbonate	598-62-9	6.3	10	60
1648	Manganese dioxide	1313-13-9	4.7	7.9	690
1649	Manganese hydroxide	18933-05-6	4.9	8.1	49

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
1650	Manganese nitrite	18488-90-9	8	13	78
1651	Manganese oxalate	640-67-5	7.8	13	78
1652	Manganese oxide; (Manganese tetroxide)	1317-35-7	4.2	6.9	41
1653	Manganese phosphate	10124-54-6	6.5	11	66
1654	Manganese tricarbonyl methylcyclopentadienyl	12108-13-3	0.3	0.6	6.9
1655	Manganese(II) chloride (1:2); (Manganous chloride)	7773-01-5	6.9	11	170
1656	Manganese(II) chloride tetrahydrate	13446-34-9	11	18	290
1657	Manganese(II) nitrate	10377-66-9	9.8	16	96
1658	Manganese(II) nitrate hydrate	15710-66-4	11	18	110
1659	Manganese(II) sulfate monohydrate	10034-96-5	9.2	15	90
1660	Manganese(III) oxide	1317-34-6	4.3	7.2	43
1661	Manganese(VII) oxide	12057-92-0	6.1	10	60
1662	Manganous oxide; (Manganese(II) oxide)	1344-43-0	3.9	6.5	39
1663	Manganous sulfate	7785-87-7	8.2	14	430
1664	Manganous sulfide; (Manganese(II) sulfide)	18820-29-6	4.8	7.9	47
1665	Mastic (resin)	61789-92-2	20	220	1,300
1666	Melamine	108-78-1	30	340	630

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
1667	Memtetrahydrophthalic anhydride; (Tetrahydrophthalic anhydride)	85-43-8	16	180	1,100
1668	Mephosfolan	950-10-7	0.82	9	54
1669	Mercaptoacetic acid; (Thioglycolic acid)	68-11-1	11	130	750
1670	Mercaptobenzoic acid, o-	147-93-3	0.16	1.8	11
1671	Mercaptobenzothiazole, 2-; (2-Benzothiazolethiol)	149-30-4	15	27	56
1672	Mercaptoethanol, 2-	60-24-2	1.9	11	92
1673	Mercaptopropionic acid, 3-	107-96-0	0.29	3.2	19
1674	Mercuric acetate	1600-27-7	0.048	0.064	3.2
1675	Mercuric cyanide	592-04-1	0.094	0.13	35
1676	Mercuric iodide; (Mercury(II) iodide)	7774-29-0	0.17	0.23	63
1677	Mercuric sulfate; (Mercury(II) sulfate)	7783-35-9	0.11	0.15	41
1678	Mercuric thiocyanate; (Mercuric sulfocyanate)	592-85-8	0.12	0.16	44
1679	Mercuric trifluoroacetate	13257-51-7	0.064	0.085	4.3
1680	Mercuriol; (Mercury nucleate)	12002-19-6	1.2	13	79
1681	Mercurous chloride; (Mercury monochloride)	7546-30-7	0.088	0.12	33
1682	Mercurous nitrate monohydrate	7782-86-7	0.11	0.14	39
1683	Mercurous nitrate; (Mercury(I) nitrate(1:1))	10415-75-5	0.098	0.13	37

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
1684	Mercurous oxide; (Mercury(I) oxide)	15829-53-5	0.078	0.1	29
1685	Mercury hydroxide	12135-13-6	0.088	0.12	33
1686	Mercury nitrate; (Mercury(II) nitrate (1:2))	10045-94-0	0.12	0.16	45
1687	Mercury nitrite; (Mercury(II) nitrite)	18541-72-5	0.11	0.15	41
1688	Mercury vapor	7439-97-6	0.15	1.7	8.9
1689	Mercury(I) chloride; (Dimercury dichloride)	10112-91-1	0.088	0.12	33
1690	Mercury(II) chloride; (Mercury bichloride)	7487-94-7	0.1	0.14	38
1691	Mercury(II) nitrate monohydrate	7783-34-8	0.13	0.17	48
1692	Mercury(II) oxide; (Mercuric oxide)	21908-53-2	1.5	16	30
1693	Metaphosphoric acid	37267-86-0	30	330	2,000
1694	Methacrolein diacetate; (Acetic acid, 2-methyl-2-propene-1,1-diol diester)	10476-95-6	0.18	2	12
1695	Methacrylaldehyde	78-85-3	0.57	0.95	10
1696	Methacrylamide	79-39-0	1.3	15	91
1697	Methacrylic acid	79-41-4	24	210	770
1698	Methacrylic acid, diester with triethylene glycol; (Polyester TGM3)	109-16-0	33	360	2,100
1699	Methacrylic anhydride	760-93-0	0.41	4.5	16
1700	Methacrylonitrile; (Methylacrylonitrile)	126-98-7	0.25	2.7	8.5

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
1701	Methacryloyl chloride	920-46-7	0.055	0.6	2.6
1702	Methamidophos	10265-92-6	0.11	1.2	7.1
1703	Methane	74-82-8	43,000	1.50E+05	2.60E+05
1704	Methane-d3	676-80-2	51,000	1.80E+05	3.10E+05
1705	Methanesulfonic acid	75-75-2	0.99	11	65
1706	Methanesulfonic acid, ethyl ester; (Ethyl methanesulfonate)	62-50-0	2.1	23	140
1707	Methanesulfonyl chloride	124-63-0	0.089	0.98	2.9
1708	Methanesulfonyl fluoride	558-25-8	0.071	0.78	4.7
1709	Methanol; (Methyl alcohol)	67-56-1	690	2,700	9,400
1710	Methidathion; (O,O-Dimethyl-S-(5-methoxy-1,3,4-thiadiazoliny-3-methyl)dithiophosphate)	950-37-8	1.8	20	160
1711	Methiocarb; (Mercaptodimethur)	2032-65-7	1.4	15	90
1712	Methomyl	16752-77-5	0.91	10	23
1713	Methoxybenzaldehyde; (p-Anisaldehyde)	123-11-5	21	230	300
1714	Methoxybenzyl alcohol, 4-	105-13-5	2.2	25	260
1715	Methoxychlor	72-43-5	30	150	4,500
1716	Methoxyethoxy)ethanol, 2-(2-; (Diethylene glycol monomethyl ether)	111-77-3	17	180	1,100
1717	Methoxyethylamine, 2-	109-85-3	1.3	14	87

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
1718	Methoxyethylmercuric acetate	151-38-2	0.048	0.064	3.2
1719	Methoxyphenol, p-	150-76-5	15	49	320
1720	Methoxypropylamine, 3-; (3-MPA)	5332-73-0	55	340	2,100
1721	Methoxytrimethylsilane	1825-61-2	51	550	3,400
1722	Methyl 2-cyanoacrylate; (Permabond 910 adhesive)	137-05-3	2.7	3.9	23
1723	Methyl 2-pyrrolidinone, 1-; (N-Methylpyrrolidone)	872-50-4	120	130	780
1724	Methyl acetate	79-20-9	760	5,000	30,000
1725	Methyl acetylene	74-99-7	380	4,200	25,000
1726	Methyl acetylene-propadiene mixture; (MAPP)	59355-75-8	4,100	8,200	49,000
1727	Methyl acrylate	96-33-3	21	580	3,500
1728	Methyl alcohol-d	1455-13-6	720	2,800	9,700
1729	Methyl alcohol-d4	811-98-3	780	3,100	11,000
1730	Methyl benzoate; (Benzoic acid, methyl ester)	93-58-3	5.9	65	230
1731	Methyl bromide; (Bromomethane)	74-83-9	74	810	2,900
1732	Methyl butylacrylate, 2-; (Butyl methacrylate)	97-88-1	19	210	1,300
1733	Methyl chloride	74-87-3	310	1,900	6,200
1734	Methyl chloroformate; (Methyl chlorocarbonate)	79-22-1	2.3	8.5	26

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
1735	Methyl chlorosilane; (Chloromethylsilane)	993-00-0	5.9	72	330
1736	Methyl demeton methyl; (Phosphorothioic acid, O,O-dimethyl-S-(2-methylthio)ethyl ester)	2587-90-8	1.8	20	120
1737	Methyl dichlorosilane; (Dichloromethylsilane)	75-54-7	4.2	52	240
1738	Methyl difluorophosphite; (Methylphosphonic difluoride)	676-99-3	0.38	4.1	25
1739	Methyl ether; (Dimethyl ether)	115-10-6	5,700	7,200	14,000
1740	Methyl ethyl ketone peroxide	1338-23-4	13	140	160
1741	Methyl fluoride; (Fluoromethane)	593-53-3	13	150	900
1742	Methyl fluoroacetate	453-18-9	0.021	0.23	1.4
1743	Methyl fluorosulfate	421-20-5	0.0098	0.11	0.65
1744	Methyl formate; (Formic acid, methyl ester)	107-31-3	250	2,000	12,000
1745	Methyl iodide	74-88-4	150	290	730
1746	Methyl isobutyl ketone; (Hexone)	108-10-1	310	2,000	12,000
1747	Methyl isocyanate	624-83-9	0.058	0.16	0.47
1748	Methyl isopropyl ketone; (3-Methyl-2-butanone)	563-80-4	210	2,300	14,000
1749	Methyl isothiocyanate; (Isothiocyanatomethane)	556-61-6	0.81	51	150
1750	Methyl lithium	917-54-4	1.2	13	79
1751	Methyl mercaptan	74-93-1	0.0098	45	130

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
1752	Methyl mercury	22967-92-6	0.032	0.043	2.1
1753	Methyl methacrylate	80-62-6	70	490	2,300
1754	Methyl n-amyl ketone	110-43-0	700	3,200	19,000
1755	Methyl nitrate; (Nitric acid, methyl ester)	598-58-3	2.7	30	180
1756	Methyl nonafluorobutyl ether (40%) and Methyl nonafluoroisobutyl ether (60%) (ppm) (HFE-7100)	163702-07-6 163702-08-7	26,000	84,000	1.50E+05
1757	Methyl parathion	298-00-0	0.11	1.2	3.5
1758	Methyl phencapton	3735-23-7	1	11	44
1759	Methyl phosphonic dichloride	676-97-1	0.13	1.4	6.2
1760	Methyl phosphonothioic dichloride	676-98-2	1.2	13	79
1761	Methyl pyridine, 3-; (3-Picoline)	108-99-6	19	190	1,100
1762	Methyl salicylate	119-36-8	14	160	930
1763	Methyl sulfoxide-d ₆ ; (Dimethyl-d ₆ -sulfoxide)	2206-27-1	520	1,000	6,200
1764	Methyl tert-butyl ether; (MTBE)	1634-04-4	180	2,100	19,000
1765	Methyl thiocyanate	556-64-9	51	85	420
1766	Methyl vinyl carbinol; (3-Buten-2-ol)	598-32-3	120	1,300	7,900
1767	Methyl vinyl ketone; (3-Buten-2-one)	78-94-4	0.49	3.4	6.9

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
1768	Methyl-1-butene, 2-	563-46-2	120	1,300	7,900
1769	Methyl-1H-benzotriazole	29385-43-1	2	22	130
1770	Methyl-1-phenyl-2-pyrazolin-5-one, 3-	89-25-8	11	120	690
1771	Methyl-1-propanethiol, 1-; (sec-Butyl mercaptan; 2-Butanethiol)	513-53-1	16	170	1,000
1772	Methyl-1-propen-1-one, 2-; (Dimethylketene)	598-26-5	0.03	0.33	2
1773	Methyl-2-(1-methylethyl)phenol, 5-; (Thymol)	89-83-8	2.9	32	190
1774	Methyl-2-butene, 2-; (Amylene)	513-35-9	12	130	790
1775	Methyl-2-chloroacrylate	80-63-7	0.45	5	17
1776	Methyl-2-heptanone, 6-	928-68-7	30	330	2,000
1777	Methyl-2-hexanone, 5-; (Methyl isoamyl ketone)	110-12-3	230	320	900
1778	Methyl-3-penten-2-one, 4-; (Mesityl oxide)	141-79-7	100	3,300	20,000
1779	Methyl-4-penten-2-one, 4-	3744-02-3	100	3,300	20,000
1780	Methyl-5-nitroaniline, 2-; (5-Nitro-o-toluidine; Benzenamine, 2-methyl-5-nitro-)	99-55-8	3	19	110
1781	Methyl-5-vinylpyridine, 2-	140-76-1	0.17	1.9	6.6
1782	Methyl-8-quinolinol, 2-	826-81-3	30	330	2,000
1783	Methylal; (Dimethoxymethane)	109-87-5	710	7,800	47,000
1784	Methylamine hydrochloride	593-51-1	2.7	30	320

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
1785	Methylamino)ethanol, 2-(	109-83-1	7	77	460
1786	Methylaniline, N-	100-61-8	6.6	73	440
1787	Methylaziridine, 1-	1072-44-2	0.14	1.5	9
1788	Methylbutanamide, 3-; (Isovaleramide)	541-46-8	1.7	19	110
1789	Methylbutylamine, N-	110-68-9	4.6	51	310
1790	Methylchlorodisilane; (Chloromethyldisilane)	68937-17-7	0.3	3.3	20
1791	Methylcholanthrene, 3-	56-49-5	0.2	2.3	29
1792	Methylcyclohexane	108-87-2	4,800	6,700	40,000
1793	Methylcyclohexanone	1331-22-2	70	770	4,600
1794	Methylcyclohexanone, 2-; (o-Methylcyclohexanone)	583-60-8	340	1,800	11,000
1795	Methylcyclopentane	96-37-7	49	540	3,200
1796	Methyldecane, 4-	2847-72-5	42	470	2,800
1797	Methyldichloroarsine; (Dichloromethylarsine)	593-89-5	0.0048	0.053	0.16
1798	Methylene bis(2-chloroaniline), 4,4'-; (MBOCA)	101-14-4	0.33	10	230
1799	Methylene bis(4-isocyanatocyclohexane), 1,1'-	5124-30-1	0.16	3.1	18
1800	Methylene chloride; (Dichloromethane)	75-09-2	690	1,900	24,000
1801	Methylene diphenyl diisocyanate; (Diphenylmethane diisocyanate; MDI)	101-68-8	0.45	5	55

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
1802	Methylene fluoride; (Difluoromethane; HFC-32)	75-10-5	6,400	14,000	83,000
1803	Methylenebis(isocyanato-benzene), 1,1'-; (Diphenyl methane diisocyanate)	26447-40-5	29	40	240
1804	Methylenebisacrylamide, N,N'-	110-26-9	0.64	7.1	77
1805	Methylenedianiline, 4,4'-	101-77-9	0.81	27	160
1806	Methylethyl hydroperoxide, 1-; (Isopropyl hydroperoxide)	3031-75-2	30	330	2,000
1807	Methylformamide, N-	123-39-7	12	140	530
1808	Methylfuran, 2-	534-22-5	1.1	12	74
1809	Methylheptane, 2-	592-27-8	1,100	1,800	23,000
1810	Methylheptane, 4-	589-53-7	1,100	1,800	23,000
1811	Methylhydrosiloxane (3-4%) + dimethylsiloxane (96-97%) copolymer	68037-59-2	30	330	2,000
1812	Methylimidazole, 1-	616-47-7	2.3	25	150
1813	Methylimidazole, 4-	822-36-6	10	110	150
1814	Methylactic acid ethyl ester, 2-; (Ethyl 2-hydroxyisobutyrate)	80-55-7	12	130	790
1815	Methylactonitrile, 2-; (Acetone cyanohydrin)	75-86-5	7	25	52
1816	Methylmagnesium bromide, 3.0 m in diethyl ether	75-16-1	1.2	13	79
1817	Methylmagnesium chloride	676-58-4	1.2	13	79
1818	Methylmercuric dicyanamide	502-39-6	0.045	0.06	3

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
1819	Methylmorpholine, 4-	109-02-4	5.4	59	350
1820	Methylnaphthalene, 1-	90-12-0	20	61	360
1821	Methylnaphthalene, 2-	91-57-6	9	54	320
1822	Methylnitrosopiperidine, 3-; (Piperidine, 3-methyl-1-nitroso-)	13603-07-1	160	1,700	10,000
1823	Methylnonane, 4-	17301-94-9	1,300	2,200	29,000
1824	Methylpentane, 2-; (Isohexane)	107-83-5	3,500	39,000	2.30E+05
1825	Methylpentane, 3-	96-14-0	3,500	39,000	2.30E+05
1826	Methylpentanol-1, 2-; (Amyl methyl alcohol)	105-30-6	0.37	4	280
1827	Methylphenylthiourea, 2-; (o-Tolyl thiourea)	614-78-8	4.5	50	300
1828	Methylphosphonate	993-13-5	30	330	2,000
1829	Methylphosphonothioic acid, O-(4-nitrophenyl) O-phenyl ester	2665-30-7	0.73	8	48
1830	Methylphosphonothioic acid-, O-ethyl O-(4-(methylthio)phenyl) ester	2703-13-1	0.91	10	60
1831	Methylphosphonothioic acid, S-(2-(dimethylamino)ethyl) O-ethyl ester	20820-80-8	0.049	0.54	3.2
1832	Methylpropane, 2-; (Isobutane)	75-28-5	13,000	40,000	1.30E+05
1833	Methylpropene, 2-; (Isobutene)	115-11-7	1,700	5,800	24,000
1834	Methylpyridine, 2-; (2-Picoline)	109-06-8	19	29	180
1835	Methylpyrrole, N-	96-54-8	120	1,300	7,900

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
1836	Methylpyrrolidine; (Methylpyrrolidine, 1-)	120-94-5	0.58	6.4	39
1837	Methylstyrene, alpha-	98-83-9	480	4,000	24,000
1838	Methyltetrahydrofuran, 2-	96-47-9	14	160	930
1839	Methyltriacetoxysilane	4253-34-3	5	35	250
1840	Methyltrichlorosilane; (Trichloromethyl silane)	75-79-6	3.7	45	200
1841	Methyltriethoxysilane	2031-67-6	24	260	1,600
1842	Methyl-trifluoromethanesulfonate	333-27-7	22	230	1,400
1843	Methyltrimethoxysilane	1185-55-3	38	410	2,500
1844	Methyltrioctylammonium chloride	5137-55-3	0.67	7.4	44
1845	Methylvinylidichlorosilane; (Dichloromethylvinylsilane)	124-70-9	5.2	63	290
1846	Methylvinylsiloxane-dimethylsiloxane copolymer, vinyl terminated	68083-18-1	30	330	2,000
1847	Metolcarb; (Methylcarbamic acid m-tolyl ester)	1129-41-5	0.44	4.8	21
1848	Mevinphos; (Phosdrin)	7786-34-7	0.3	4	40
1849	Mexacarbate; (4-(Dimethylamine)-3,5-xylyl N-methylcarbamate)	315-18-4	1.3	14	84
1850	Mica; (mica silicates)	12001-26-2	9	99	590
1851	Michler's ketone; (4,4'-Bis(dimethylamino)benzophenone)	90-94-8	30	330	2,000
1852	Microcystins	101043-37-2	9.00E-04	0.0099	0.048

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
1853	Mineral oil, heavy or light; (paraffin oil; Deobase, deodorized; heavy paraffinic; heavy naphthenic); distillates; includes 64741-53-3, 64741-88-4, 8042-47-5, 8012-95-1; 64742-54-7	8020-83-5	140	1,500	8,900
1854	Mirex; (Perchloropentacyclodecane)	2385-85-5	6.3	69	410
1855	Modeccin toxin; (Adenia digitata toxin)	65988-88-7	5.40E-06	5.90E-05	3.60E-04
1856	Molybdate orange	12656-85-8	5.4	59	350
1857	Molybdenum	7439-98-7	30	330	2,000
1858	Molybdenum carbide	12011-97-1	34	360	2,200
1859	Molybdenum dioxide	18868-43-4	40	430	2,600
1860	Molybdenum disilicide	12136-78-6	48	530	3,200
1861	Molybdenum hexacarbonyl	13939-06-5	83	920	5,500
1862	Molybdenum pentachloride	10241-05-1	4.3	410	2,400
1863	Molybdenum trioxide (Molybdenum(VI) oxide)	1313-27-5	2.3	43	260
1864	Molybdenum(IV) sulfide	1317-33-5	50	260	1,600
1865	Molybdic acid	7782-91-4	2.5	28	170
1866	Molybdic acid, ammonium salt; (Ammonium molybdate)	11098-84-3	3.5	290	1,700
1867	Molybdic acid, disodium salt; (Disodium molybdate)	7631-95-0	3.2	17	100
1868	Molybdic acid, hexaammonium salt; (Ammonium heptamolybdate)	12027-67-7	2.6	230	1,400
1869	Molybdophosphoric acid	12026-57-2	2.4	26	160

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
1870	Molybdophosphoric acid hydrate; (Phosphomolybdic acid hydrate)	51429-74-4	2.4	27	160
1871	Monobutyl phosphite	16456-56-7	2.7	30	180
1872	Monochloroamine; (Chloramide)	10599-90-3	0.055	0.61	3.6
1873	Monochloropentafluoroethane; (CFC-115)	76-15-3	19,000	36,000	2.20E+05
1874	Monochlorophenyl ether	55398-86-2	1.5	35	210
1875	Monocrotophos	6923-22-4	0.15	0.63	3.5
1876	Monomethylamine; (Methylamine)	74-89-5	19	81	440
1877	Monomethylhydrazine; (Methyl hydrazine)	60-34-4	0.15	1.7	5.1
1878	Monosodium titanate	60704-88-3	30	330	2,000
1879	Morpholine	110-91-8	110	4,700	28,000
1880	Muscimol; (5-Aminomethyl-3-isoxazole)	2763-96-4	1.5	17	100
1881	Mustard gas sulfoxide; (bis(2-Chloroethyl)sulfoxide)	5819-08-9	0.52	5.7	34
1882	Myristic acid, butyl ester; (Tetradecanoic acid, butyl ester)	110-36-1	24	260	1,600
1883	Myristic acid, isopropyl ester; (Tetradecanoic acid, isopropyl; Isopropyl myristate)	110-27-0	81	900	5,400
1884	Nabumetone; (Relafen; 4-(6-Methoxy-2-naphthyl)-2-butanone)	42924-53-8	1.5	16	620
1885	Nadic methyl anhydride	25134-21-8	0.49	5.4	32

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
1886	Naphtha (coal tar); includes solvent naphtha, petroleum (64742-88-7), naphtha (petroleum) light aliphatic, rubber solvent (64742-89-8), heavey catalytic cracked (64741-54-4), light straight run (64741-46-4), heavy aliphatic solvent (64742-96-7), high flash aromatic and aromatic solvent naphtha (64742-95-6)	8030-30-6	1,200	6,700	40,000
1887	Naphtha (petroleum),hydrotreated light	64742-49-0	1,000	11,000	66,000
1888	Naphtha, hydrotreated heavy; (Isopar L-rev 2)	64742-48-9	350	1,800	40,000
1889	Naphthalenamine, 1-; (1-Naphthylamine)	134-32-7	2	22	130
1890	Naphthalene	91-20-3	79	430	2,600
1891	Naphthaleneacetamide, 1-	86-86-2	5.1	56	330
1892	Naphthalenetrisulfonic acid sodium salt, 1,3,6-	19437-42-4	30	330	2,000
1893	Naphthenic acid, lead salt	61790-14-5	15	170	1,000
1894	Naphthol, 1-	90-15-3	2.2	25	450
1895	Naphthol, 2-	135-19-3	5.9	65	390
1896	Naphthol-6-sulfonic acid, 6-; (Schaeffer's acid)	93-01-6	0.54	6	36
1897	Naphthol-8-sulfonic acid, sodium salt, 2-	832-85-9	0.54	6	36
1898	Naphthoquinone, 1,4-	130-15-4	0.57	6.3	38
1899	Naphthylamine, beta-	91-59-8	2.2	24	140
1900	Naphthylthiourea, alpha-; (ANTU)	86-88-4	0.91	10	100
1901	Neodecanoic acid	26896-20-8	6	66	400

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
1902	Neodecanoic acid, calcium salt; (Calcium neodecanoate)	27253-33-4	13	147	890
1903	Neodymium	7440-00-8	30	330	2,000
1904	Neodymium bromide	13536-80-6	0.053	0.38	14
1905	Neodymium fluoride	13709-42-7	26	300	1,800
1906	Neodymium hydroxide	16469-17-3	1.2	13	79
1907	Neodymium nitrate	10045-95-1	6.2	68	410
1908	Neodymium nitrate, pentahydrate	14517-29-4	8.2	90	540
1909	Neodymium nitrite	z-0033	30	330	2,000
1910	Neodymium(III) chloride	10024-93-8	0.9	9.9	59
1911	Neodymium(III) oxide	1313-97-9	15	170	990
1912	Neon	7440-01-9	54,000	1.90E+05	3.30E+05
1913	Nerve Agent GA; (Tabun, Ethyl dimethylamido-cyanophosphate)	77-81-6	0.0028	0.035	0.26
1914	Nickel	7440-02-0	4.5	50	99
1915	Nickel acetate tetrahydrate	6018-89-9	13	140	830
1916	Nickel aluminide	12003-78-0	0.81	8.9	53
1917	Nickel carbonate hydroxide; (Basic nickel carbonate tetrahydrate)	39430-27-8	1.3	28	170
1918	Nickel carbonate hydroxide; (Basic nickel(II) carbonate)	12607-70-4	1	12	69

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
1919	Nickel carbonyl	13463-39-3	0.023	0.25	1.1
1920	Nickel chloride; (Nickelous chloride)	7718-54-9	0.66	22	130
1921	Nickel cyanide	557-19-7	1.1	13	75
1922	Nickel fluoride, tetrahydrate	13940-83-5	1.7	19	110
1923	Nickel formate	3349-06-2	7.6	83	500
1924	Nickel oxalate	547-67-1	0.75	8.3	50
1925	Nickel oxide; (Nickel(II) oxide)	1313-99-1	0.76	220	1,300
1926	Nickel perchlorate	13637-71-3	1.9	20	120
1927	Nickel sulfamate; (Nickel(II) sulfamate)	13770-89-3	1.3	12	71
1928	Nickel sulfate hexahydrate; (Nickel(II) sulfate hexahydrate)	10101-97-0	1.3	8.7	52
1929	Nickel sulfate; (Nickel(II) sulfate)	7786-81-4	0.79	8.6	51
1930	Nickel(2+) stearate	2223-95-2	32	360	2,200
1931	Nickel(II) bromide	13462-88-9	1.1	12	73
1932	Nickel(II) carbonate (1:1)	3333-67-3	0.61	6.6	40
1933	Nickel(II) chloride hexahydrate	7791-20-0	1.2	5.2	31
1934	Nickel(II) hydroxide; (Nickelous hydroxide)	12054-48-7	0.95	8.8	53
1935	Nickel(II) nitrate hexahydrate	13478-00-7	1.5	53	320

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
1936	Nickel(II) nitrate; (Nickelous nitrate)	13138-45-9	0.93	10	61
1937	Nickel(II) nitrite	17861-62-0	0.77	8.6	51
1938	Nickel(II) phosphate	10381-36-9	1.2	14	83
1939	Nickel(III) hydroxide; (Nickelic hydroxide)	12125-56-3	1.1	12	73
1940	Nicotinamide	98-92-0	5.6	62	690
1941	Nicotine sulfate	65-30-5	0.82	9	18
1942	Nicotine; (Pyridine, (S)-3-(1-methyl-2-pyrrolidinyl)-); (Includes DL-Nicotine, 22083-74-5)	54-11-5	1.5	3.5	35
1943	Niobium	7440-03-1	30	330	2,000
1944	Niobium chloride	10026-12-7	4.2	46	280
1945	Niobium pentoxide; (Niobium(V) oxide)	1313-96-8	6.6	72	430
1946	Niobium(IV) carbide	12069-94-2	30	330	2,000
1947	Nitrapyrin; (2-Chloro-6-(trichloromethyl)pyridine)	1929-82-4	20	31	190
1948	Nitrate(s)	14797-55-8	30	330	2,000
1949	Nitric acid	7697-37-2	0.41	62	240
1950	Nitric acid, butyl ester; (Butyl nitrate)	928-45-0	190	1,600	9,700
1951	Nitric acid, ethyl ester; (Ethyl nitrate)	625-58-1	2.2	24	150
1952	Nitric acid, pentyl ester; (Amyl nitrate)	1002-16-0	8.1	89	530

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
1953	Nitric oxide	10102-43-9	0.61	15	25
1954	Nitrilotriacetic acid, disodium salt; (Disodium nitrilotriacetate)	15467-20-6	4.4	48	290
1955	Nitrilotriacetic acid, trisodium salt, monohydrate	18662-53-8	1.6	18	110
1956	Nitrilotriacetic acid; (Aminotriacetic acid)	139-13-9	4.4	49	290
1957	Nitrilotris(methylene)trisphosphonic acid; (Amino, tris[methylene phosphonic acid])	6419-19-8	30	69	420
1958	Nitroaniline, 2-; (o-Nitroaniline)	88-74-4	6.2	68	410
1959	Nitroaniline, 3-; (m-Nitroaniline)	99-09-2	1.6	18	110
1960	Nitroaniline, p-	100-01-6	9	71	300
1961	Nitrobenzene	98-95-3	15	100	1,000
1962	Nitrobenzenesulfonic acid, sodium salt, 3-	127-68-4	33	360	2,200
1963	Nitrobiphenyl, 4-; (p-Nitrobiphenyl)	92-93-3	6.7	74	440
1964	Nitrochlorobenzene, m-; (1-Chloro-3-nitrobenzene; m-Chloronitrobenzene)	121-73-3	0.9	9.9	59
1965	Nitrocyclohexane	1122-60-7	0.14	1.5	9
1966	Nitrocyclohexene, 1-; (1-Nitrocyclohex-1-ene)	2562-37-0	12	130	790
1967	Nitrodiphenylamine, 2-	119-75-5	12	130	790
1968	Nitroethane	79-24-3	180	520	3,100
1969	Nitrogen	7727-37-9	9.10E+05	9.50E+05	1.00E+06

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
1970	Nitrogen dioxide	10102-44-0	0.94	23	38
1971	Nitrogen mustard hydrochloride	55-86-7	0.013	0.14	0.83
1972	Nitrogen mustard-1; (Ethylbis(2-chloroethyl)amine; Bis(2-chloroethyl)ethylamine)	538-07-8	0.002	0.022	0.37
1973	Nitrogen mustard-2; (Bis(b-chloroethyl)methylamine)	51-75-2	0.002	0.022	0.37
1974	Nitrogen mustard-3; (Tris(2-chloroethyl)amine)	555-77-1	0.002	0.022	0.37
1975	Nitrogen tetroxide	10544-72-6	0.94	23	38
1976	Nitrogen trifluoride	7783-54-2	580	1,500	2,500
1977	Nitrogen trioxide; (Dinitrogen trioxide)	10544-73-7	2.6	62	100
1978	Nitroglycerin	55-63-0	0.1	2	75
1979	Nitromethane	75-52-5	150	520	2,500
1980	Nitromethane-d3; (Trideuteronitromethane)	13031-32-8	160	550	2,600
1981	Nitro-m-xylene, 2-; (1,3-Dimethyl-2-nitrobenzene)	81-20-9	7.9	86	520
1982	Nitronium Tetrafluoroborate	13826-86-3	13	150	870
1983	Nitrophenol, 2-; (o-Nitrophenol)	88-75-5	2.1	23	140
1984	Nitrophenol, 3-; (m-Nitrophenol)	554-84-7	2.8	31	180
1985	Nitrophenol, 4-; (p-Nitrophenol); Includes 25154-55-6 (mixed isomers)	100-02-7	0.69	7.6	46
1986	Nitropropane, 1-	108-03-2	270	1,400	8,400

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
1987	Nitropropane, 2-	79-46-9	110	1,400	8,400
1988	Nitropyrene, 1-	5522-43-0	0.0064	0.07	0.42
1989	Nitropyridine-N-oxide, 4-; (Pyridine, 4-nitro, 1-oxide)	1124-33-0	7.3	80	1,600
1990	Nitrosodimethylamine	62-75-9	0.082	0.9	10
1991	Nitrosodiphenylamine, p-	156-10-5	0.58	6.4	39
1992	Nitrosodipropylamine; (DPNA)	621-64-7	5.6	62	95
1993	Nitrosomorpholine, N-	59-89-2	0.85	9.3	56
1994	Nitroso-N-methylurea, N-	684-93-5	0.33	3.6	22
1995	Nitrosophenol, p-	104-91-6	1.1	12	71
1996	Nitrosotoluene, 2-; (o-Nitrosotoluene)	611-23-4	12	130	790
1997	Nitrosyl chloride	2696-92-6	0.037	0.4	2.4
1998	Nitrosylsulfuric acid	7782-78-7	1.2	13	79
1999	Nitrotoluene, m-	99-08-1	34	80	1,100
2000	Nitrotoluene, o-	88-72-2	34	180	1,100
2001	Nitrotoluene, p-	99-99-0	34	180	1,100
2002	Nitrous acid	7782-77-6	0.41	62	240
2003	Nitrous oxide	10024-97-2	1,600	18,000	36,000

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
2004	Nonacosane	630-03-5	30	330	2,000
2005	Nonanal	124-19-6	0.86	9.5	410
2006	Nonane; (Shellsol 140)	111-84-2	3,100	4,300	26,000
2007	Nonanenitrile; (1-Octyl cyanide)	2243-27-8	34	46	270
2008	Nonanoic acid	112-05-0	13	140	840
2009	Nonanone, 2-	821-55-6	3	33	200
2010	Nonene, 1-	124-11-8	210	4,100	10,000
2011	Nonoxynol-4	7311-27-5	30	330	2,000
2012	Nonyl alcohol	143-08-8	11	120	710
2013	Nonyl phenol (mixed isomers, includes p-nonyl phenol, 104-40-5)	25154-52-3	4.9	53	320
2014	Nonyl phenol, 4- (branched)	84852-15-3	3.9	43	260
2015	Nonylphenol, 4-, branched, ethoxylated	127087-87-0	30	330	2,000
2016	Nonylphenoxy polyethoxyethanol	68412-54-4	30	330	2,000
2017	Nonyltrichlorosilane	5283-67-0	6.4	78	350
2018	Norbormide	991-42-4	0.35	3.8	190
2019	Novol ketone; (5-dithylamino-2-pentanone)	105-14-6	0.62	6.9	41
2020	n-Propanol (Propyl alcohol, n-)	71-23-8	610	1,600	9,800

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
2021	Octachlorodibenzodioxin, 1,2,3,4,6,7,8,9-; (OCDD, Octachlorodibenzo-p-dioxin)	3268-87-9	0.43	4.7	28
2022	Octachlorodibenzofuran, 1,2,3,4,6,7,8,9-	39001-02-0	0.43	4.7	28
2023	Octachloronaphthalene	2234-13-1	0.3	3.3	20
2024	Octacosane	630-02-4	3,700	6,200	81,000
2025	Octadecane, n-	593-45-3	2,400	4,000	52,000
2026	Octadecanoic acid, n-; (Stearic acid)	57-11-4	14	150	910
2027	Octadecanol, 1-	112-92-5	60	660	4,000
2028	Octadecenoic acid, 9-; (Oleic acid)	112-80-1	220	2,400	15,000
2029	Octadecyl methacrylate	32360-05-7	30	330	2,000
2030	Octadecyltrichlorosilane	112-04-9	9.5	120	520
2031	Octafluorocyclobutane; (Cyclooctafluorobutane; Freon C-318)	115-25-3	3,300	36,000	2.20E+05
2032	Octamethylcyclotetrasiloxane	556-67-2	360	830	1,600
2033	Octamethyldiphosphoramidate; (Octamethylpyrophosphoramidate, Schradan)	152-16-9	0.073	0.8	4.9
2034	Octanal, 1-; (Octanal; Octanaldehyde)	124-13-0	17	190	1,100
2035	Octanamine, 1-	111-86-4	0.2	2.2	13
2036	Octane, n-	111-65-9	1,100	1,800	23,000
2037	Octanedione, 2,5-	3214-41-3	10	110	670

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
2038	Octanenitrile	124-12-9	2.9	32	190
2039	Octanethiol, 1-	111-88-6	0.27	3	400
2040	Octanoic acid; (Caprylic acid)	124-07-2	30	330	2,000
2041	Octanol, 2-	123-96-6	9.6	110	630
2042	Octanone, 2-	111-13-7	9.3	100	610
2043	Octaphenylcyclotetrasiloxane	546-56-5	14	150	920
2044	Octene, 1-	111-66-0	180	3,700	9,200
2045	Octyl alcohol; (n-Octanol)	111-87-5	27	110	800
2046	Octyl mercaptan, t-	141-59-3	0.33	3.6	11
2047	Octyl(phenyl)-N,N-diisobutylcarbamoylmethylphosphine oxide	83242-95-9	30	330	2,000
2048	Octyltrichlorosilane	5283-66-9	6	74	330
2049	Oil gas; (Oil fog)	z-0035	6.3	69	420
2050	Oleum; (fuming Sulfuric acid)	8014-95-7	0.20	8.7	160
2051	Organorhodium complex	z-0036	0.087	0.8	4.8
2052	Orthoformic acid, trimethyl ester; (Trimethyl orthoformate)	149-73-5	1.2	13	79
2053	Osmium	7440-04-2	0.28	3.1	19
2054	Osmium tetroxide	20816-12-0	0.0062	0.087	42

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
2055	Otto Fuel (mainly Propylene glycol dinitrate 6423-43-4)	106602-80-6	1.2	6.9	90
2056	Ouabain	630-60-4	0.75	8.3	50
2057	Oxalic acid dihydrate	6153-56-6	2	83	500
2058	Oxalic acid, anhydrous; (Ethanedioic acid)	144-62-7	2	20	500
2059	Oxalyl chlorine	79-37-8	4	44	270
2060	Oxamide	471-46-5	1.3	15	89
2061	Oxamyl	23135-22-0	0.15	1.7	4.7
2062	Oxathiane, 1,4-	15980-15-1	11	120	730
2063	Oxirane, ethenyl-; (3,4-Epoxy-1-butene)	930-22-3	1	11	67
2064	Oxone, monopersulfate compound	37222-66-5	30	330	2,000
2065	Oxybis(N,N-dimethylethanamine), 2,2'-; (Bis(2-dimethylaminoethyl) ether; DMAEE)	3033-62-3	0.98	9.1	55
2066	Oxydiacetic acid; (Oxodiacetic acid)	110-99-6	1.5	17	99
2067	Oxydiethylenedicarbonic acid, diallyl ester	142-22-3	4.7	51	100
2068	Oxydiphenoxarsine, 10,10'-; (Phenoxarsine oxide)	58-36-6	5	14	84
2069	Oxydisulfoton	2497-07-6	0.32	3.5	21
2070	Oxygen difluoride; (Fluorine monoxide)	7783-41-7	0.016	0.18	0.55
2071	Ozone	10028-15-6	0.47	2	20

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
2072	Palladium	7440-05-3	6	66	400
2073	Palladium chloride (Palladium(II) chloride)	7647-10-1	8.1	89	540
2074	Palladium hydroxide	12135-22-7	120	1,300	7,900
2075	Palladium nitrate	10102-05-3	30	330	2,000
2076	Palladium oxide	1314-08-5	15	160	970
2077	Paraformaldehyde	30525-89-4	2	23	47
2078	Paraldehyde	123-63-7	14	150	930
2079	Paraquat	4685-14-7	0.3	4.4	26
2080	Paraquat dichloride	1910-42-5	0.15	1.6	9.6
2081	Paraquat methosulfate; (Paraquat dimethyl sulphate)	2074-50-2	0.014	0.15	20
2082	Parathion	56-38-2	0.15	1.5	2.0
2083	Paris Green; (Cupric acetoarsenite)	12002-03-8	3.4	22	130
2084	PBX (mixture of HMX and nitrocellulose [CTN])	z-0038	30	330	2,000
2085	Pentaborane	19624-22-7	0.039	0.36	1.3
2086	Pentachlorobenzene	608-93-5	4.4	49	220
2087	Pentachlorodibenzofuran, 1,2,3,7,8-	57117-41-6	0.0043	0.046	0.28
2088	Pentachlorodibenzofuran, 2,3,4,7,8-	57117-31-4	4.30E-04	0.0046	0.028

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
2089	Pentachlorodibenzo-p-dioxin, 1,2,3,7,8-	40321-76-4	1.30E-04	0.0014	0.0085
2090	Pentachloroethane	76-01-7	130	730	1,200
2091	Pentachloronitrobenzene	82-68-8	1.5	28	62
2092	Pentachlorophenol	87-86-5	1	15	150
2093	Pentadecafluorooctanoic acid	335-67-1	1.1	12	75
2094	Pentadecane	629-62-9	11	130	760
2095	Pentadecanoic acid	1002-84-2	0.18	1.9	12
2096	Pentadecylamine	2570-26-5	0.18	2	40
2097	Pentaerythritol	115-77-5	30	90	540
2098	Pentaerythritol tetra(3-mercaptopropionate), reaction products with 2-(hydroxymethyl)-2-((3-mercaptoproxy)methyl)-1,3-propanediyl bis(3-mercaptopropanoate) and 1-octene	95823-35-1	30	330	2,000
2099	Pentaerythritol tetranitrate	78-11-5	5	55	330
2100	Pentafluorobenzoic acid	602-94-8	0.58	6.4	39
2101	Pentafluoropropane, 1,1,1,3,3-	460-73-1	4,900	1.40E+05	8.10E+05
2102	Pentane, n-	109-66-0	8,800	96,000	5.70E+05
2103	Pentanediol, 1,5-	111-29-5	6	66	400
2104	Pentanedione, 2,4-; (Acetylacetone)	123-54-6	310	460	820
2105	Pentanenitrile; (Valeronitrile)	110-59-8	0.31	3.4	21

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
2106	Pentanone, 2-; (Methyl propyl ketone)	107-87-9	530	3,000	18,000
2107	Pentanone, 3-; (Diethyl ketone)	96-22-0	1,100	3,000	18,000
2108	Pentatriacontane	630-07-9	30	330	2,000
2109	Pentene, 1-	109-67-1	340	3,700	22,000
2110	Peracetic acid	79-21-0	0.52	1.6	15
2111	Perboric acid, sodium salt	7632-04-4	8	88	530
2112	Perchloric acid	7601-90-3	2.5	28	170
2113	Perchloric acid, zinc salt, hexahydrate	10025-64-6	0.33	3.6	22
2114	Perchloroethylene; (Tetrachloroethylene)	127-18-4	240	1,600	8,100
2115	Perchloromethyl mercaptan	594-42-3	0.099	2.3	6.8
2116	Perchloryl fluoride; (Chlorine oxyfluoride)	7616-94-6	6.3	17	50
2117	Percoll	65455-52-9	30	330	2,000
2118	Perfluoro compounds, C5-C18; (Fluorinert electronic liquid perfluoro compounds); includes 60164-51-4 and 69991-67-9	86508-42-1	120	1,300	7,900
2119	Perfluoroisobutylene; (Octafluoro-sec-butene)	382-21-8	0.082	0.9	2.7
2120	Periodic acid	10450-60-9	0.18	2.1	12
2121	Periodic acid, sodium salt	7790-28-5	0.19	2.1	13
2122	Perlite; (Fused NaKAl silicate, < 1% quartz)	93763-70-3	15	230	1,400

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
2123	Permafluor E+	z-0039	140	360	2,200
2124	Permafluor-V (85+% toluene)	z-0040	230	1,900	13,000
2125	Peroxydicarbonic acid, disodium salt	3313-92-6	3.4	37	220
2126	Petroleum asphalt; (Bitumen)	8052-42-4	30	330	2,000
2127	Petroleum coke, calcined	64743-05-1	30	330	2,000
2128	Petroleum distillates; petroleum ether; includes clay-treated light naphthenic [64742-45-6]; low boiling [68477-31-6]; petroleum extracts [64742-06-9]; petroleum base oil [64742-46-7]; petroleum 50 thinner, petroleum spirits [64475-85-0], Soltrol, VM&P naphtha [8032-32-4]; Ligroine, and paint solvent; petroleum paraffins C5-C20 [64771-72-8]; hydrotreated light naphthenic [64742-53-6]; solvent refined light naphthenic [64741-97-5]; and machine coolant 1	8002-05-9	1,100	1,800	40,000
2129	Phenacetin; (p-Acetophenetidide)	62-44-2	7.3	80	330
2130	Phenaglycodol; (Ultran; 2-p-Chlorophenyl-3-methyl-2,3-butanediol)	79-93-6	2.5	27	160
2131	Phenanthrene	85-01-8	5.4	59	360
2132	Phenanthroline ferrous sulfate, 1,10-	14634-91-4	30	330	2,000
2133	Phenanthroline, 1,10-	66-71-7	0.25	2.7	16
2134	Phenol	108-95-2	58	88	770
2135	Phenol red, sodium salt	34487-61-1	12	130	790
2136	Phenol, polymer with formaldehyde, oxiranylmethyl ether	28064-14-4	30	330	2,000
2137	Phenolphthalein	77-09-8	4	44	260

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
2138	Phenoxyethanol, 2-; (Phenyl cellosolve)	122-99-6	8.3	91	550
2139	Phenyl Chloroformate; (Carbonochloridic acid, phenyl ester)	1885-14-9	0.11	1.2	3.6
2140	Phenyl dichloroarsine; (Dichlorophenylarsine)	696-28-6	0.0055	0.061	0.18
2141	Phenyl ether; (Diphenyl ether)	101-84-8	14	110	670
2142	Phenyl isocyanate	103-71-9	0.0043	0.047	0.14
2143	Phenyl mercaptan; (benzenethiol, thiophenol)	108-98-5	1.4	2.4	7.2
2144	Phenyl-1,2-propanedione, 1-	579-07-7	0.4	4.5	27
2145	Phenyl-2-oxazoline, 2-	7127-19-7	180	2,000	12,000
2146	Phenyl-2-propanol, 2-; (Dimethylphenylmethanol)	617-94-7	3.9	43	260
2147	Phenylacetylene; (Ethylnylbenzene)	536-74-3	28	310	1,900
2148	Phenylazo)aniline, p-(	60-09-3	0.66	7.2	43
2149	Phenylboric acid; (Benzeneboronic acid)	98-80-6	2.2	24	150
2150	Phenylcyclohexane; (Cyclohexylbenzene)	827-52-1	20	220	1,300
2151	Phenylene diisocyanate, 1,4-	104-49-4	1	11	14
2152	Phenylenediamine dihydrochloride, 1,2-	615-28-1	1.7	19	110
2153	Phenylenediamine dihydrochloride, 1,4-	624-18-0	0.44	4.9	29
2154	Phenylenediamine, 1,2-; (o-Phenylenediamine)	95-54-5	0.3	35	210

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
2155	Phenylenediamine, 1,3-; (m-Phenylenediamine)	108-45-2	0.3	21	130
2156	Phenylenediamine, 1,4-; (p-Phenylenediamine)	106-50-3	0.3	6.8	41
2157	Phenylhydrazine	100-63-0	1.3	28	1,300
2158	Phenylhydrazine hydrochloride	59-88-1	23	250	1,500
2159	Phenylmagnesium bromide	100-58-3	1.2	13	79
2160	Phenylmercury acetate; (Acetoxyphenylmercury)	62-38-4	2	22	47
2161	Phenylphenol, 2-; (Biphenylol)	90-43-7	29	320	490
2162	Phenylphosphine	638-21-1	0.02	0.22	7.5
2163	Phenylpropanolamine hydrochloride; (Propadrine hydrochloride)	154-41-6	4.5	49	300
2164	Phenylsilatrane	2097-19-0	0.091	1	6
2165	Phenylthiourea; (1-Phenyl-2-thiourea)	103-85-5	0.27	3	18
2166	Phenyltriethoxysilane	780-69-8	8.5	93	560
2167	Phenyltrimethoxysilane	2996-92-1	0.59	6.5	39
2168	Phenylxylylethane; (PXE)	6196-95-8	30	330	2,000
2169	Phloroglucinol dihydrate	6099-90-7	2.2	24	140
2170	Phorate	298-02-2	0.0036	0.040	0.12
2171	Phosacetim	4104-14-7	0.34	3.7	11

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
2172	Phosfolan	947-02-4	0.82	9	54
2173	Phosgene	75-44-5	0.11	1.2	3
2174	Phosgene oxime	1794-86-1	0.028	0.083	13
2175	Phosmet	732-11-6	0.049	0.54	77
2176	Phosphamidon; (Famfos)	13171-21-6	0.027	0.3	21
2177	Phosphine	7803-51-2	1.4	2.8	5
2178	Phosphomolybdic acid	11104-88-4	2.5	27	160
2179	Phosphonic acid	13598-36-2	1.2	13	380
2180	Phosphonic acid, dioctadecyl ester	19047-85-9	9.5	100	630
2181	Phosphonic acid, methyl-, mono(1-methylethyl) ester; (Isopropyl methylphosphonic acid)	1832-54-8	21	230	1,400
2182	Phosphonic acid, tridodecyl ester	3076-63-9	9.5	100	630
2183	Phosphonoacetic acid	4408-78-0	30	330	2,000
2184	Phosphoric acid	7664-38-2	3	30	150
2185	Phosphoric acid, dimethyl-p-(methylthio)phenyl ester	3254-63-5	0.64	7	42
2186	Phosphorodifluoridic acid, ethyl ester; (Ethyl phosphorodifluoridate)	460-52-6	26	280	1,700
2187	Phosphorodifluoridic acid, methyl ester	22382-13-4	23	250	1,500
2188	Phosphorous acid, o-; (Phosphonic acid)	10294-56-1	3	30	150

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
2189	Phosphorous pentafluoride	7647-19-0	10	110	670
2190	Phosphorous trifluoride	7783-55-3	12	130	760
2191	Phosphorus (red, violet, and black)	7723-14-0	0.27	3	18
2192	Phosphorus (yellow); (White phosphorus)	12185-10-3	0.3	0.91	5.5
2193	Phosphorus oxychloride	10025-87-3	1.9	3	5.3
2194	Phosphorus pentachloride	10026-13-8	2.6	20	200
2195	Phosphorus pentasulfide	1314-80-3	3	130	750
2196	Phosphorus pentoxide	1314-56-3	1	10	50
2197	Phosphorus trichloride	7719-12-2	1.9	11	31
2198	Phosphorus trioxide	1314-24-5	1.2	13	79
2199	Phthalic acid	88-99-3	24	260	1,600
2200	Phthalic acid, benzyl butyl ester; (Benzyl butyl phthalate)	85-68-7	15	77	460
2201	Phthalic anhydride	85-44-9	18	56	10,000
2202	Phthaloyl dichloride; (Phthaloyl chloride)	88-95-9	1.2	13	79
2203	Phyllomedusin	26145-48-2	30	330	2,000
2204	Physostigmine	57-47-6	0.41	4.5	27
2205	Physostigmine salicylate (1:1)	57-64-7	0.23	2.5	15

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
2206	Picolinic acid; (2-Pyridinecarboxylic acid)	98-98-6	1.2	13	78
2207	Picric acid	88-89-1	0.3	17	100
2208	Picrotoxin; (Cocculin; PTX)	124-87-8	0.024	0.27	1.6
2209	Pigment green 36	14302-13-7	12	130	790
2210	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	5.2	57	990
2211	Pigment yellow 14	5468-75-7	15	170	990
2212	Pinacolone; (3,3-Dimethyl-2-butanone)	75-97-8	1.8	20	120
2213	Pinacolyl alcohol; (tert-Butyl methyl carbinol)	464-07-3	8.1	89	540
2214	Piperazine	110-85-0	0.32	31	190
2215	Piperidine	110-89-4	23	110	380
2216	Piperonyl butoxide	51-03-6	6.5	72	1,200
2217	Pirimifos-ethyl	23505-41-1	2.3	25	28
2218	Pivalic anhydride; (Trimethylacetic anhydride)	1538-75-6	30	330	2,000
2219	Platinum	7440-06-4	3	33	200
2220	Platinum cyanide	592-06-3	0.0076	0.083	0.5
2221	Poly alpha olefin; (Synthetic hydrocarbon mixture, PAO; Hydrogenated trimer and tetramer of decene)	68649-12-7	2	22	130
2222	Poly(1-(2-oxo-1-pyrrolidinyl)ethylene)iodine complex; (Iodine solutions)	25655-41-8	3.8	42	250

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
2223	Poly(1-vinyl-2-pyrrolidinone) homopolymer; (Polyvinylpyrrolidone; Plasdone)	9003-39-8	51	560	20,000
2224	Poly(acrylamide-co-diallyldimethylammonium chloride)	26590-05-6	30	330	2,000
2225	Poly(dimethylsiloxane), ethoxylated, dihydroxy terminated; (Silicon oil polymer)	68037-63-8	120	1,300	7,900
2226	Poly(dimethylsiloxane), hydride terminated	70900-21-9	30	330	2,000
2227	Poly(dimethylsiloxane), vinyl dimethylsiloxy terminated	68083-19-2	48	530	3,200
2228	Poly(divinylbenzene); (Diethenylbenzene homopolymer)	9003-69-4	12	130	790
2229	Poly(ethylene glycol methyl ether)	9004-74-4	66	730	4,400
2230	Poly(ethylene glycol)diacrylate	26570-48-9	1.2	13	79
2231	Poly(melamine-co-formaldehyde), methylated	68002-20-0	44	490	2,900
2232	Poly(oxy-1,2-ethanediyl), alpha-(4-octylphenyl)-omega-hydroxy-; (Polyethylene glycol mono(p-octylphenol)ether)	26636-32-8	1.2	14	81
2233	Poly(oxyethylene)(2) stearyl ether	9005-00-9	5.7	63	380
2234	Poly(styrene-co-divinylbenzene); (Dowex Optipore V-502)	69011-14-9	30	330	2,000
2235	Poly[oxy(methyl-1,2-ethanediyl)], alpha-hydro-omega-(2-aminomethylethoxy)-, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1); (Polyoxypropylene polyamine)	39423-51-3	30	330	2,000
2236	Polyamide 6; (Capron; Poly(iminocarbonylpentamethylene))	25038-54-4	12	130	790
2237	Polybutyl acrylate	9003-49-0	30	330	2,000
2238	Polychlorinated biphenyl (Aroclor 1016); (Chlorodiphenyl (41% Cl))	12674-11-2	5.6	62	460
2239	Polychlorinated biphenyl (Aroclor 1016/1242); (Chlorodiphenyl (37% Cl))	z-0042	13	140	860

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
2240	Polychlorinated biphenyl (Aroclor 1221); (Chlorodiphenyl (21% Cl))	11104-28-2	12	130	790
2241	Polychlorinated biphenyl (Aroclor 1232); (Chlorodiphenyl (32% Cl))	11141-16-5	13	150	890
2242	Polychlorinated biphenyl (Aroclor 1242); (Chlorodiphenyl (42% Cl))	53469-21-9	3	140	840
2243	Polychlorinated biphenyl (Aroclor 1248); (Chlorodiphenyl (48% Cl))	12672-29-6	6.6	72	2,200
2244	Polychlorinated biphenyl (Aroclor 1254); (Chlorodiphenyl (54% Cl))	11097-69-1	1.5	68	200
2245	Polychlorinated biphenyl (Aroclor 1260); (Chlorodiphenyl (60% Cl))	11096-82-5	0.41	4.5	260
2246	Polychlorinated biphenyl (Aroclor 1260/1262); (Chlorodiphenyl (61% Cl))	z-0043	0.41	4.5	260
2247	Polychlorinated biphenyl (Aroclor 1262); (Chlorodiphenyl (62% Cl))	37324-23-5	34	370	2,200
2248	Polychlorinated biphenyl (Aroclor 1268); (Chlorodiphenyl (68% Cl))	11100-14-4	33	360	2,200
2249	Polychlorinated biphenyl; (Aroclor; PCBs)	1336-36-3	13	140	840
2250	Polydimethyl siloxane; (Dimethylpolysiloxane)	9016-00-6	6.8	75	450
2251	Polyether polyol ester	z-0112	7.9	87	520
2252	Polyethylbenzene residue; (Dowtherm Q)	68987-42-8	110	1,200	7,200
2253	Polyethylene	9002-88-4	16	170	1,000
2254	Polyethylene glycol	25322-68-3	30	1,300	7,700
2255	Polyethylene glycol 20M	37225-26-6	30	1,300	7,700
2256	Polyethylene glycol dimethacrylate	25852-47-5	30	330	2,000

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
2257	Polyglycol 15-200; (Oxirane, 2-methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1); Calthane NF and ND "B")	9082-00-2	30	330	2,000
2258	Polyisocyanate prepolymer	z-0115	0.45	5	55
2259	Polymaleic acid; (2-Butenedioic acid (2Z)-, homopolymer)	26099-09-2	30	330	2,000
2260	Polymethylene polyphenyl isocyanate; (Polymeric diphenylmethane diisocyanate)	9016-87-9	0.15	3.6	22
2261	Polymethylhydrosiloxane; (Methyl hydrogen polysiloxane)	63148-57-2	30	330	2,000
2262	Polyoxyalkyleneamine; (Poly(oxypropylene)diamine)	9046-10-0	4.8	53	320
2263	Polyoxyethylene mono-octylphenyl ether	9036-19-5	13	140	830
2264	Polyphosphoric acid	8017-16-1	3	30	150
2265	Polypropylene	9003-07-0	5.2	58	350
2266	Polypropylene glycol, (chloromethyl) oxirane polymer	9072-62-2	30	330	2,000
2267	Polypropylene glycol, polytetramethylene glycol, 1,3-diisocyanatomethylbenzene polymer	65636-36-4	30	330	2,000
2268	Polypropylene glycols	25322-69-4	30	330	2,000
2269	Polypropylene-polyethylene glycol; (Pluronic L-81)	9003-11-6	6.9	76	460
2270	Polysorbate 85; (Tween 85)	9005-70-3	120	1,300	7,900
2271	Polystyrene resin; (Styrene polymer)	9003-53-6	85	550	4,700
2272	Polysulfone resin	25135-51-7	30	330	2,000
2273	Polytetrafluoroethylene; (Teflon)	9002-84-0	12	130	790

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
2274	Polyurethane foam; (Urethane polymers)	9009-54-5	12	130	790
2275	Polyurethane prepolymer of MDI and PEP	68092-58-0	30	330	2,000
2276	Polyvinyl alcohol	9002-89-5	24	270	1,600
2277	Polyvinyl chloride	9002-86-2	3	33	200
2278	Potassium	7440-09-7	2.3	25	150
2279	Potassium acetate	127-08-2	9.8	110	640
2280	Potassium acid fluoride	7789-29-9	15	170	1,000
2281	Potassium aluminate	12003-63-3	22	240	1,400
2282	Potassium aluminosilicate	1327-44-2	35	400	2,400
2283	Potassium antimonate; (Antimony potassium oxide)	29638-69-5	3.2	28	170
2284	Potassium antimonate; (Potassium hexahydroxyantimonate)	12208-13-8	3.2	28	170
2285	Potassium antimonite	z-0045	2.8	25	150
2286	Potassium argentate	z-0046	0.05	0.56	3.4
2287	Potassium arsenate; (Monopotassium arsenate)	7784-41-0	3.6	40	240
2288	Potassium arsenite; (Arsenous acid, potassium salt)	13464-35-2	2.9	32	190
2289	Potassium beryllium oxide	z-0047	0.018	0.2	0.8
2290	Potassium bicarbonate	298-14-6	140	1,600	9,500

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
2291	Potassium bi-iodate	13455-24-8	1.1	13	76
2292	Potassium bismuthate	12589-75-2	3.3	36	220
2293	Potassium bisulfate	7646-93-7	7	77	460
2294	Potassium bromate	7758-01-2	0.3	3.1	89
2295	Potassium bromide	7758-02-3	9.2	100	610
2296	Potassium cadminate	z-0048	0.23	1.7	11
2297	Potassium carbonate	584-08-7	5.6	62	370
2298	Potassium chlorate	3811-04-9	5.6	62	370
2299	Potassium chromate(VI)	7789-00-6	0.56	9.7	58
2300	Potassium citrate	866-84-2	2.1	23	140
2301	Potassium citrate, monohydrate	6100-05-6	30	330	2,000
2302	Potassium columbate; (Potassium niobate)	12030-85-2	9	99	590
2303	Potassium cyanide	151-50-8	5.3	19	40
2304	Potassium dichromate	7778-50-9	0.42	8.8	44
2305	Potassium dideuterium phosphate	13761-79-0	9.6	110	630
2306	Potassium ferricyanide	13746-66-2	13	18	110
2307	Potassium ferrocyanide; (Tetrapotassium hexacyanoferrate)	13943-58-3	14	20	120

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
2308	Potassium fluoride	7789-23-3	23	250	1,500
2309	Potassium fluoride dihydrate	13455-21-5	37	420	2,500
2310	Potassium formate	590-29-4	9	99	600
2311	Potassium glycolate	1932-50-9	28	300	1,900
2312	Potassium gold cyanide	554-07-4	33	47	280
2313	Potassium hexacyanoferrate(II) trihydrate; (Potassium ferricyanide trihydrate)	14459-95-1	16	23	140
2314	Potassium hexafluorosilicate; (Silicate(2-), hexafluoro-, dipotassium)	16871-90-2	0.47	5.1	31
2315	Potassium hydride	7693-26-7	1.2	13	79
2316	Potassium hydrogen lead oxide	z-0049	0.2	160	940
2317	Potassium hydrogen metasilicate	z-0051	30	330	2,000
2318	Potassium hydrogen pyrophosphate	z-0050	54	600	1,100
2319	Potassium hydroxide	1310-58-3	0.18	2	54
2320	Potassium iminodiacetate; (Potassium IDA)	z-0052	33	380	2,200
2321	Potassium iodate	7758-05-6	0.45	4.9	29
2322	Potassium iodide	7681-11-0	1.3	15	87
2323	Potassium lanthanate	z-0053	30	330	2,000
2324	Potassium metaarsenite; (Potassium arsenite)	10124-50-2	1.3	14	530

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
2325	Potassium metaborate	13709-94-9	6.8	77	460
2326	Potassium molybdate; (Molybdic acid, dipotassium salt)	13446-49-6	3.7	40	240
2327	Potassium nickel oxide (liquids); (Nickel potassium oxide)	50811-97-7	0.86	9.6	57
2328	Potassium nickelate	z-0055	1	12	69
2329	Potassium nitrate	7757-79-1	9	100	600
2330	Potassium nitrilotriacetate; (Potassium NTA)	2399-85-1	3.7	40	240
2331	Potassium nitrite	7758-09-0	4.1	45	3,000
2332	Potassium orthovanadate	14293-78-8	0.021	0.23	160
2333	Potassium oxalate	583-52-8	2	22	130
2334	Potassium oxalate monohydrate	6487-48-5	2	22	130
2335	Potassium oxide	12136-45-7	0.18	2	54
2336	Potassium perchlorate	7778-74-7	6.3	69	420
2337	Potassium periodate	7790-21-8	1.2	13	79
2338	Potassium permanganate	7722-64-7	8.6	14	150
2339	Potassium peroxymonosulfate; (Peroxymonosulfuric acid, monopotassium salt)	10058-23-8	30	330	2,000
2340	Potassium persulfate; (Dipotassium persulfate)	7727-21-1	0.3	26	160
2341	Potassium phosphate, dibasic	7758-11-4	13	140	830

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
2342	Potassium phosphate, dibasic trihydrate	16788-57-1	16	180	1,100
2343	Potassium phosphate, monobasic	7778-77-0	9.6	110	630
2344	Potassium phosphate, tribasic	7778-53-2	15	170	980
2345	Potassium phosphide	20770-41-6	1.1	12	22
2346	Potassium pyrophosphate; (Tetrapotassium diphosphate)	7320-34-5	61	680	1,200
2347	Potassium pyrosulfate; (Disulfuric acid, dipotassium salt)	7790-62-7	30	330	2,000
2348	Potassium pyrosulfite; (Potassium metabisulfite)	16731-55-8	5.4	59	360
2349	Potassium selenate	7790-59-2	1.7	18	110
2350	Potassium selenite	10431-47-7	1.6	17	100
2351	Potassium silicate; (Silicic acid, potassium salt)	1312-76-1	30	330	2,000
2352	Potassium silver cyanide	506-61-6	2.9	32	190
2353	Potassium stannate	12142-33-5	12	140	810
2354	Potassium strontium phosphate	53201-92-6	16	180	1,000
2355	Potassium sulfate (2:1); (Dipotassium sulfate)	7778-80-5	20	220	1,300
2356	Potassium tellurate	15571-91-2	0.63	6.9	42
2357	Potassium tellurite	7790-58-1	0.6	6.6	40
2358	Potassium tetrafluoroborate(1-)	14075-53-7	12	140	830

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
2359	Potassium tetraphenylborate	3244-41-5	12	130	790
2360	Potassium thiocyanate	333-20-0	2.6	28	170
2361	Potassium trihydrogen silicate	z-0058	30	330	2,000
2362	Potassium tungstate	7790-60-5	5.3	58	350
2363	Potassium uranyl carbonate	17871-80-6	1.5	13	76
2364	Potassium zirconate; (Potassium zirconium oxide; Dipotassium zirconate)	12030-98-7	24	200	1,200
2365	Potassium-tert-butoxide; (tert-Butyl alcohol, potassium derivitave)	865-47-4	1.2	13	79
2366	Praseodymium	7440-10-0	1.2	13	79
2367	Praseodymium (III, IV) oxide	12037-29-5	15	170	990
2368	Praseodymium nitrate	10361-80-5	5.6	61	370
2369	Praseodymium oxide	12036-32-7	12	130	790
2370	Promecarb; (m-Cym-5-yl methylcarbamate)	2631-37-0	1.5	16	96
2371	Propanamine, 1-; (Propylamine)	107-10-8	13	140	250
2372	Propane	74-98-6	9,900	31,000	59,000
2373	Propane sultone, 1,3-	1120-71-4	1.6	18	110
2374	Propanediamine, 1,2-	78-90-0	6.7	74	440
2375	Propanediamine, 1,3-	109-76-2	0.93	10	61

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
2376	Propanedinitrile; (Malononitrile)	109-77-3	0.19	2.1	6.2
2377	Propanediol, 1,3-	504-63-2	7.8	86	520
2378	Propanediol, 2,2-dimethyl-1,3-	126-30-7	120	1,400	8,200
2379	Propanethiol; (n-Propylmercaptan)	107-03-9	0.15	1.6	1,000
2380	Propanol, zirconium(4+) salt, 1-	23519-77-9	36	300	1,800
2381	Propargyl alcohol	107-19-7	5.7	37	160
2382	Propargyl bromide	106-96-7	1.4	63	380
2383	Propiolactone, b-	57-57-8	4.4	15	88
2384	Propionaldehyde	123-38-6	110	620	2,000
2385	Propionic acid	79-09-4	45	86	510
2386	Propionic acid, 3-ethoxy-, ethyl ester; (Ethyl-3-ethoxypropionate)	763-69-9	9.6	110	630
2387	Propionic acid, sodium salt	137-40-6	15	170	1,000
2388	Propionic anhydride	123-62-6	7.1	78	470
2389	Propionitrile; (Propiononitrile)	107-12-0	0.62	6.8	20
2390	Propionyl chloride	79-03-8	0.19	2.1	13
2391	Propoxur (Baygon)	114-26-1	1.5	6.7	40
2392	Propoxypropanol, n-; (Propylene glycol monpropyl ether)	30136-13-1	8.6	95	570

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
2393	Propyl acetate, n-	109-60-4	1,000	5,500	33,000
2394	Propyl chloroformate; (Propyl chlorocarbonate)	109-61-5	1.7	19	55
2395	Propyl nitrate	627-13-4	170	1,400	8,600
2396	Propyl-1-butanamine, N-	20193-21-9	3.2	35	210
2397	Propylbenzene, n-; (Isocumene)	103-65-1	18	200	1,200
2398	Propylene carbonate, 1,2-	108-32-7	34	370	2,200
2399	Propylene glycol dinitrate	6423-43-4	1.2	6.8	88
2400	Propylene glycol monomethyl ether acetate, alpha-isomer; (1-Methoxypropyl-2-acetate)	108-65-6	270	5,400	27,000
2401	Propylene glycol monomethyl ether acetate, beta-isomer; (2-Methoxypropyl-1-acetate)	70657-70-4	270	5,400	27,000
2402	Propylene glycol monomethyl ether; (Ucar Triol HG-170)	107-98-2	370	590	2,400
2403	Propylene glycol mono-n-butyl ether; (3-Butoxy-1-propanol)	10215-33-5	18	200	1,200
2404	Propylene glycol; (1,2-Propanediol)	57-55-6	30	1,300	7,900
2405	Propylene oxide; (Methyl ethylene oxide)	75-56-9	170	690	2,100
2406	Propylene; (1-Propene)	115-07-1	2,600	4,800	29,000
2407	Propyleneimine, 1,2-	75-55-8	0.93	28	54
2408	Propyltrichlorosilane	141-57-1	4.4	53	240
2409	Prothoate; (Isopropyl diethyldithiophosphorylacetylamide)	2275-18-5	0.15	1.7	10

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
2410	Pump oil; (petroleum distillates, solvent de-waxed heavy paraffinic)	64742-65-0	140	1,500	8,900
2411	Pyrene	129-00-0	0.15	1.7	110
2412	Pyrethrin 1; (Cyclopropaneacrylic acid, 2,2-dimethyl-3-(2-methylpropenyl)-, ester with 4-hydroxy-3-methyl-2-(2,4-pentadienyl)-2-cyclopenten-1-one)	121-21-1	15	25	150
2413	Pyridine	110-86-1	9.7	62	12,000
2414	Pyridinecarboxaldehyde, 4-; (Isonicotinaldehyde)	872-85-5	3.5	38	230
2415	Pyridine-d5	7291-22-7	10	65	12,000
2416	Pyriminil; (Pyriminyl)	53558-25-1	0.56	6.2	380
2417	Pyrogallic acid	87-66-1	0.41	4.5	20
2418	Pyromellitic acid	89-05-4	0.98	11	65
2419	Pyrrole; (Imidole)	109-97-7	0.32	3.5	21
2420	Pyrrolidine	123-75-1	0.69	7.6	45
2421	Pyrrolidinone, 2-	616-45-5	24	260	1,600
2422	Quaternary ammonium compounds, benzyl-C12-C16-alkyldimethyl, chlorides	68424-85-1	1.3	14	84
2423	Quaternary ammonium compounds, coco alkylbis(hydroxyethyl)methyl, chlorides; (Methyl bis(2-hydroxyethyl) cocoalkyl quaternary ammonium chlorides)	70750-47-9	1.2	13	79
2424	Quaternary ammonium compounds, coco alkylbis(hydroxyethyl)methyl, nitrates (salts); (Methyl bis(2-hydroxyethyl) cocoalkyl quaternary ammonium nitrates)	71487-00-8	1.2	13	79
2425	Quinhydrone	106-34-3	0.21	2.3	14
2426	Quinoline	91-22-5	0.016	15	91

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
2427	Quinolinol, 8-	148-24-3	3.6	40	240
2428	Resorcinol	108-46-3	90	130	770
2429	Rexyn I-300; (Ethylene glycol dimethacrylate polymer with styrene, chloromethylated, trimethylamine-quaternized, hydroxide)	69011-49-0	30	330	2,000
2430	Rhenium hexafluoride	10049-17-9	20	220	1,300
2431	Rhenium oxide; (Rhenium(VII) oxide)	1314-68-7	3	33	200
2432	Rhodium	7440-16-6	3	33	200
2433	Rhodium oxide; (Rhodium(IV) oxide)	12137-27-8	0.039	0.43	2.6
2434	Rhodium(III) hydroxide	21656-02-0	0.045	0.5	3
2435	Rhodium(III) oxide (solids)	12036-35-0	3.7	40	240
2436	Ricin	9009-86-3	8.20E-06	9.00E-05	5.40E-04
2437	Rosin core solder decomposition products; (Colophony Gum)	8050-09-7	72	790	1,500
2438	Rotenone	83-79-4	15	420	2,500
2439	Rubidium	7440-17-7	3.9	43	260
2440	Rubidium bromide	7789-39-1	30	330	2,000
2441	Rubidium chloride	7791-11-9	6.2	69	410
2442	Rubidium hydroxide	1310-82-3	1.8	19	120
2443	Rubidium nitrate	13126-12-0	14	150	920

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
2444	Ruthenium	7440-18-8	30	330	2,000
2445	Ruthenium trichloride	10049-08-8	2.2	24	140
2446	Ruthenium(IV) oxide	12036-10-1	14	150	910
2447	Safrol; (5-(2-Propenyl)-1,3-benzodioxole)	94-59-7	5.9	64	390
2448	Salcomine; (bis(Salicylaldehyde)ethylenediimine cobalt(II))	14167-18-1	3.5	39	230
2449	Salicylaldehyde	90-02-8	1.6	17	100
2450	Samarium	7440-19-9	30	330	2,000
2451	Samarium chloride	10361-82-7	1.2	13	79
2452	Samarium nitrate	10361-83-8	6.5	71	430
2453	Samarium(II) iodide solution	32248-43-4	12	130	790
2454	Samarium(III) chloride hexahydrate	13465-55-9	1.7	19	110
2455	Samarium(III) oxide	12060-58-1	15	170	990
2456	Satratoxin H	53126-64-0	0.0046	0.051	0.3
2457	Saxitoxin	35523-89-8	2.10E-05	2.30E-04	0.0014
2458	Scandium	7440-20-2	30	330	2,000
2459	Scandium oxide	12060-08-1	30	330	2,000
2460	Selenious acid	7783-00-8	23	250	1,500

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
2461	Selenium	7782-49-2	0.6	6.6	40
2462	Selenium dioxide	7446-08-4	0.84	1.6	9.5
2463	Selenium hexafluoride	7783-79-1	0.42	0.69	2.1
2464	Selenium monosulfide	7446-34-6	0.84	1.3	7.5
2465	Selenium oxychloride	7791-23-3	1.3	10	60
2466	Selenium sulfide; (Selenium(IV) disulfide (1:2))	7488-56-4	1.1	4.6	27
2467	Semicarbazide hydrochloride	563-41-7	9.1	100	600
2468	Shigella, shigatoxin; (shiga-like toxins)	75757-64-1	1.50E-06	1.60E-05	9.70E-05
2469	Silane; (Silicon tetrahydride)	7803-62-5	130	170	350
2470	Silica amorphous hydrated	7631-86-9	18	740	4,500
2471	Silica gel	63231-67-4	18	200	1,200
2472	Silica gel dessicant	1343-98-2	18	95	570
2473	Silica gel, amorphous synthetic	112926-00-8	18	200	1,200
2474	Silica, amorphous fume	69012-64-2	45	500	3,000
2475	Silica, amorphous fumed	112945-52-5	18	100	630
2476	Silica, crystalline-quartz; (Silicon dioxide)	14808-60-7	0.075	33	200
2477	Silicic acid	7699-41-4	0.9	11	67

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
2478	Silicic acid, aluminum calcium sodium salt	1344-01-0	30	330	2,000
2479	Silicic acid, sodium salt; (Sodium silicate)	1344-09-8	5.9	65	390
2480	Silicofluoric acid; (Fluorosilicic acid)	16961-83-4	9.5	110	630
2481	Silicon	7440-21-3	45	100	630
2482	Silicon carbide	409-21-2	45	500	3,000
2483	Silicon nitride	12033-89-5	30	330	2,000
2484	Silicon tetrafluoride; (Tetrafluorosilane)	7783-61-1	0.21	14	43
2485	Silicon(II) oxide; (Silicon oxide)	10097-28-6	30	330	2,000
2486	Siloprene k 1000 (Polydimethylsiloxane rubber)	63394-02-5	12	130	790
2487	Siloxanes and silicones, dimethyl, reaction products with silica; (Hydrophobic silicon dioxide, amorphous)	67762-90-7	120	1,300	7,900
2488	Siloxanes and silicones, methyl phenyl; (Silicon Y-6607; Silicone fluid, high temp)	67762-92-9	1.6	17	100
2489	Silver	7440-22-4	0.3	170	990
2490	Silver carbonate; (Silver(I) carbonate)	534-16-7	11	120	740
2491	Silver chloride	7783-90-6	22	240	1,400
2492	Silver cyanide	506-64-9	0.37	4.1	24
2493	Silver hydroxide	12673-77-7	0.035	0.4	2.4
2494	Silver nitrate	7761-88-8	0.047	0.9	5.4

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
2495	Silver nitrite; (Silver(I) nitrite)	7783-99-5	0.043	0.46	2.8
2496	Silver oxide	20667-12-3	0.3	93	560
2497	Soda lime	8006-28-8	1	240	1,500
2498	Sodium	7440-23-5	13	140	870
2499	Sodium acetate	127-09-3	11	120	700
2500	Sodium acetate trihydrate; (Acetic acid, sodium salt trihydrate)	6131-90-4	11	120	690
2501	Sodium aluminate anhydrous; (Aluminum sodium dioxide anhydrous)	11138-49-1	18	200	1,200
2502	Sodium aluminate; (Aluminum sodium dioxide)	1302-42-7	18	200	1,200
2503	Sodium aluminum hydride	13770-96-2	1.2	13	80
2504	Sodium aluminum silicate; sodium aluminosilicate (1344-00-9)	73987-94-7	30	330	2,000
2505	Sodium antimonate; (Antimonic acid, sodium salt)	11112-10-0	3	27	160
2506	Sodium antimonite	z-0061	2.6	23	140
2507	Sodium argentate	z-0062	0.046	0.5	3
2508	Sodium arsenate	7631-89-2	4.1	45	270
2509	Sodium arsenite	7784-46-5	0.91	10	170
2510	Sodium azide	26628-22-8	0.026	0.29	5.3
2511	Sodium beryllium oxide	z-0063	0.014	0.16	0.62

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
2512	Sodium bicarbonate	144-55-8	13	140	840
2513	Sodium bifluoride; (Sodium hydrogen fluoride)	1333-83-1	12	140	820
2514	Sodium bis(2-methoxyethoxy) aluminum hydride	22722-98-1	45	500	3,000
2515	Sodium bismuthate	12232-99-4	1.3	14	83
2516	Sodium bisulfate monohydrate	10034-88-5	0.63	7	42
2517	Sodium bisulfate; (Sodium acid sulfate)	7681-38-1	0.82	9	54
2518	Sodium bisulfite	7631-90-5	15	66	400
2519	Sodium borate decahydrate (Borax)	1303-96-4	6	190	1,100
2520	Sodium borate; (Disodium tetraborate)	1330-43-4	6	88	530
2521	Sodium borohydride	16940-66-2	0.49	5.3	32
2522	Sodium bromate	7789-38-0	0.46	5.1	30
2523	Sodium bromide	7647-15-6	12	130	830
2524	Sodium butyl (2-ethylhexyl)phosphate	z-0064	13	140	860
2525	Sodium butyl butylphosphonate	z-0065	0.017	0.19	1.1
2526	Sodium cacodylate; (Sodium dimethylarsinate)	124-65-2	3.2	86	510
2527	Sodium cadminate	z-0066	0.4	3	9.5
2528	Sodium carbonate	497-19-8	7.6	83	500

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
2529	Sodium carbonate monohydrate	5968-11-6	14	150	910
2530	Sodium chlorite	7758-19-2	0.19	2.1	13
2531	Sodium chromate decahydrate	13517-17-4	0.99	17	100
2532	Sodium chromate tetrahydrate	10034-82-9	0.87	15	91
2533	Sodium chromate(VI); (Disodium chromate)	7775-11-3	0.47	8.2	49
2534	Sodium citrate; (Monosodium citrate)	18996-35-5	4	44	270
2535	Sodium cobaltinitrite	13600-98-1	0.41	4.6	28
2536	Sodium cyanide	143-33-9	4.0	14	30
2537	Sodium cyclopentadienylide; (Cyclopentadienyl sodium)	4984-82-1	30	330	2,000
2538	Sodium deuterioxide	14014-06-3	0.5	5	50
2539	Sodium dichromate dihydrate	7789-12-0	0.43	7.5	45
2540	Sodium dichromate; (Disodium dichromate)	10588-01-9	0.38	6.5	39
2541	Sodium diethyldithiocarbamate trihydrate	20624-25-3	6	50	300
2542	Sodium diethyldithiocarbamate; (Diethyldithiocarbamic acid, sodium salt)	148-18-5	6	27	300
2543	Sodium dithionate dihydrate	7631-94-9	30	330	2,000
2544	Sodium dodecylbenzenesulfonate; (Dodecyl benzene sodium sulfonate)	25155-30-0	2.1	23	87
2545	Sodium ethoxide	141-52-6	1.2	13	79

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
2546	Sodium ferrocyanide	13601-19-9	12	16	97
2547	Sodium fluoride	7681-49-4	17	90	1,100
2548	Sodium formate	141-53-7	0.45	4.9	30
2549	Sodium glycinate	6000-44-8	1.8	20	120
2550	Sodium glycolate; (Sodium hydroxyacetate)	2836-32-0	20	230	1,400
2551	Sodium hexahydroxoantimonate; (Sodium antimonate)	33908-66-6	3	27	160
2552	Sodium hexamethyldisilazane; (Sodium bis(trimethylsilyl)amide)	1070-89-9	30	330	2,000
2553	Sodium hydride	7646-69-7	1.2	13	79
2554	Sodium hydrogen lead oxide	z-0067	0.19	150	890
2555	Sodium hydrogen metasilicate	z-0068	3.1	34	210
2556	Sodium hydrogen pyrophosphate	z-0069	4.7	52	320
2557	Sodium hydrosulfite	7775-14-6	30	330	2,000
2558	Sodium hydroxide	1310-73-2	0.5	5	50
2559	Sodium hypobromite	13824-96-9	30	330	2,000
2560	Sodium hypochlorite	7681-52-9	2	290	1,800
2561	Sodium hypochlorite pentahydrate	10022-70-5	13	140	290
2562	Sodium hypophosphite	7681-53-0	5.2	57	340

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
2563	Sodium hypophosphite hydrate	123333-67-5	5.2	57	340
2564	Sodium iodate	7681-55-2	0.83	9.1	55
2565	Sodium iodide	7681-82-5	13	140	860
2566	Sodium isothiocyanate; (Thiocyanic acid, sodium salt)	540-72-7	0.7	7.7	46
2567	Sodium lactate; (Lactic acid, monosodium salt)	72-17-3	7.6	84	790
2568	Sodium lanthanate	z-0070	30	330	2,000
2569	Sodium lauryl sulfate	151-21-3	3.9	43	260
2570	Sodium metabisulfite	7681-57-4	15	64	390
2571	Sodium metaborate	7775-19-1	6.8	77	460
2572	Sodium metaphosphate	10361-03-2	2.7	30	180
2573	Sodium metasilicate nonahydrate	13517-24-3	8.9	98	590
2574	Sodium metasilicate pentahydrate	10213-79-3	6.6	73	440
2575	Sodium metavanadate; (Sodium vanadate)	13718-26-8	0.011	0.12	84
2576	Sodium methylate	124-41-4	6.1	67	400
2577	Sodium molybdate dihydrate; (Disodium molybdate dihydrate)	10102-40-6	3.8	34	210
2578	Sodium monoxide; (Sodium oxide)	12401-86-4	0.5	5	50
2579	Sodium nickel oxide (Liquid)	37367-09-2	0.7	7.6	46

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
2580	Sodium nickelate	z-0073	0.88	9.6	57
2581	Sodium nitrate	7631-99-4	4.1	45	270
2582	Sodium nitrite	7632-00-0	6.4	71	240
2583	Sodium o-benzyl-p-chlorophenate	3184-65-4	30	330	2,000
2584	Sodium orthovanadate	13721-39-6	0.016	0.18	130
2585	Sodium oxalate	62-76-0	11	120	2,200
2586	Sodium pentachlorophenate	131-52-2	0.22	2.4	8.4
2587	Sodium perchlorate	7601-89-0	6.3	69	420
2588	Sodium perchlorate monohydrate	7791-07-3	3.8	41	250
2589	Sodium permanganate	10101-50-5	7.8	13	78
2590	Sodium peroxide	1313-60-6	0.5	5	50
2591	Sodium perrhenate; (Rhenium(VII) sodium oxide)	13472-33-8	8.3	92	550
2592	Sodium persulfate	7775-27-1	0.3	8.2	49
2593	Sodium phosphide	12058-85-4	0.75	8.2	15
2594	Sodium polyphosphate	68915-31-1	9.2	100	600
2595	Sodium polytungstate	12141-67-2	14	150	920
2596	Sodium potassium tartrate tetrahydrate	6381-59-5	9	99	590

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
2597	Sodium potassium tartrate; (Potassium sodium tartrate)	304-59-6	9	99	590
2598	Sodium p-tert-amylphenate; (4-(1,1-Dimethylpropyl)phenol, sodium salt)	31366-95-7	30	330	2,000
2599	Sodium pyrophosphate decahydrate	13472-36-1	8.6	96	580
2600	Sodium pyrophosphate, di-	7758-16-9	4.3	48	290
2601	Sodium pyruvate; (Pyruvic acid, sodium salt)	113-24-6	30	330	2,000
2602	Sodium selenate; (Disodium selenate)	13410-01-0	1.4	1.6	2
2603	Sodium selenite	10102-18-8	1.3	2.3	3.1
2604	Sodium silicate; (Sodium metasilicate)	6834-92-0	3.8	42	250
2605	Sodium stannate	12058-66-1	11	120	720
2606	Sodium stearate	822-16-2	0.17	1.8	11
2607	Sodium strontium phosphate	19553-80-1	6.3	83	900
2608	Sodium succinate	150-90-3	15	160	970
2609	Sodium succinate, hexahydrate	6106-21-4	25	270	1,600
2610	Sodium sulfamate	13845-18-6	36	120	6,000
2611	Sodium sulfate, anhydrous	7757-82-6	9.8	110	650
2612	Sodium sulfhydrate; (Sodium hydrosulfide)	16721-80-5	0.088	0.96	5.8
2613	Sodium sulfide	1313-82-2	0.62	6.9	41

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
2614	Sodium sulfide nonahydrate	1313-84-4	0.17	1.9	11
2615	Sodium sulfite	7757-83-7	11	120	710
2616	Sodium tartrate dihydrate	6106-24-7	30	330	2,000
2617	Sodium tellurate	10101-83-4	0.56	3.7	22
2618	Sodium tellurite	10102-20-2	1.8	20	120
2619	Sodium tetrafluoroborate(1-)	13755-29-8	11	120	720
2620	Sodium Tetrahydroxaluminum	12251-53-5	26	290	1,700
2621	Sodium tetraphenyl borate	143-66-8	0.86	9.5	57
2622	Sodium thiosulfate	7772-98-7	38	410	2,500
2623	Sodium thiosulfate pentahydrate	10102-17-7	50	550	3,300
2624	Sodium titanate	12034-34-3	30	330	2,000
2625	Sodium tolyltriazole; (1H-Benzotriazole, 4(or 5)-methyl-, sodium salt)	64665-57-2	1.9	21	130
2626	Sodium triethylborohydride	17979-81-6	1.2	13	79
2627	Sodium trihydrogen silicate	z-0076	30	330	2,000
2628	Sodium tripolyphosphate	7758-29-4	0.61	6.8	620
2629	Sodium tungstate	13472-45-2	4.8	53	320
2630	Sodium tungstate dihydrate	10213-10-2	5.4	59	360

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
2631	Sodium uranate; (Disodium uranate hexahydrate)	66018-57-3	0.94	7.8	47
2632	Sodium uranium oxide monohydrate; (Sodium uranate(VI) monohydrate)	10135-92-9	0.82	6.8	41
2633	Sodium uranyl carbonate	128578-60-9	2.5	20	120
2634	Sodium zirconate; (Disodium zirconium oxide)	12201-48-8	22	180	1,100
2635	Sodium-Potassium	11135-81-2	0.5	5	50
2636	Solvent Yellow 3; (2-Amino-5-azotoluene)	97-56-3	1.9	21	120
2637	Spiro(isobenzofuran-1(3H),9'-(9H)xanthen)-3-one, 3',6'-dihydroxy-; (Fluorescein)	2321-07-5	20	220	1,300
2638	Squalene; (2,6,10,15,19,23-Hexamethyl-2,6,10,14,18,22-tetracosahexene, (all-E)-)	111-02-4	8.2	90	540
2639	Stannic chloride; (Tin(IV) chloride; Tin(IV) tetrachloride)	7646-78-8	13	150	880
2640	Stannous chloride; (Tin(II) chloride (1:2))	7772-99-8	9.6	65	640
2641	Stannous octoate	301-10-0	0.68	110	670
2642	Staphylococcal enterotoxin (SEB); including 37337-57-8 (SEA)	11100-45-1	1.90E-04	0.0021	0.013
2643	Stibine; (Antimony hydride)	7803-52-3	1.5	7.6	49
2644	Stilbene	588-59-0	3.8	41	250
2645	Stilbene 3; (Stilbene 420; Tinopal CBS; Disodium 4,4'-bis(2-sulfostyryl)biphenyl)	27344-41-8	8.1	89	530
2646	Stoddard solvent; (Mineral spirits, 85% nonane and 15% trimethyl benzene)	8052-41-3	300	1,800	29,500
2647	Strontium	7440-24-6	30	330	2,000

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
2648	Strontium carbonate	1633-05-2	71	780	4,700
2649	Strontium chloride	10476-85-4	8	88	360
2650	Strontium hydroxide	18480-07-4	0.75	7.6	76
2651	Strontium nitrate	10042-76-9	5.7	62	370
2652	Strontium nitrite; (Nitrous acid, strontium salt)	13470-06-9	6.4	71	240
2653	Strontium oxalate	814-95-9	120	1,300	7,900
2654	Strontium phosphate; (Strontium orthophosphate)	14414-90-5	32	370	2,100
2655	Strontium phosphide	12504-13-1	1.2	13	24
2656	Strontium sulfate	7759-02-6	30	330	2,000
2657	Strychnine	57-24-9	0.45	0.5	3
2658	Strychnine sulfate (2:1)	60-41-3	0.45	5	30
2659	Styrene	100-42-5	85	550	4,700
2660	Styrene oxide; (1,2-Epoxyethylbenzene)	96-09-3	1.6	18	110
2661	Styrene-allyl alcohol copolymer	25119-62-4	30	330	2,000
2662	Styrene-divinylbenzene resin, chloromethylated, aminated with trimethylamine; (Bio-Rad AG1-X8 anion exchange resin, formate form)	60177-39-1	30	330	2,000
2663	Styrenesulfonate), poly(sodium 4-	25704-18-1	48	530	3,200
2664	Succinic acid	110-15-6	6.8	75	450

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
2665	Succinic anhydride	108-30-5	4.5	50	300
2666	Succinimidyl-6-(beta-maleimidopropionamido)hexanoate; (SMPH)	z-0120	30	330	2,000
2667	Sulfamic acid	5329-14-6	9.5	100	630
2668	Sulfanilamide	63-74-1	13	140	830
2669	Sulfanilic acid	121-57-3	37	410	2,400
2670	Sulfonic acids, petroleum; (Petrolatum acid sulfonate)	61789-85-3	30	330	2,000
2671	Sulfonylbis-ethanol, 2,2'-	2580-77-0	1.2	13	79
2672	Sulfosalicylic acid	97-05-2	7.4	81	490
2673	Sulfosalicylic acid, dihydrate, crystal	5965-83-3	12	130	790
2674	Sulfotep; (TEDP)	3689-24-5	0.32	3.5	35
2675	Sulfur dioxide	7446-09-5	0.52	2	79
2676	Sulfur hexafluoride	2551-62-4	18,000	2.00E+05	1.20E+06
2677	Sulfur monochloride	10025-67-9	2.9	35	83
2678	Sulfur pentafluoride	5714-22-7	0.0091	0.1	10
2679	Sulfur tetrafluoride	7783-60-0	0.04	0.44	3.6
2680	Sulfur trioxide	7446-11-9	0.20	8.7	160
2681	Sulfuric acid	7664-93-9	0.20	8.7	160

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
2682	Sulfuric acid-d2; (Deuteriosulfuric acid)	13813-19-9	0.2	8.7	160
2683	Sulfurous acid	7782-99-2	0.17	7.3	130
2684	Sulfuryl chloride	7791-25-5	1.7	20	61
2685	Sulfuryl fluoride	2699-79-8	42	88	270
2686	Tall oil (alkyd resin)	68333-62-0	30	330	2,000
2687	Tantalum	7440-25-7	10	11	64
2688	Tantalum carbide	12070-06-3	11	120	730
2689	Tantalum(V) ethoxide	6074-84-6	22	240	1,500
2690	Tantalum(V) fluoride	7783-71-3	22	250	1,500
2691	Tantalum(V) oxide	1314-61-0	12	260	1,600
2692	Tartaric acid	87-69-4	1.6	17	100
2693	Tartaric acid, monopotassium salt	868-14-4	87	960	5,800
2694	Tartaric acid, monosodium salt	526-94-3	7.1	79	470
2695	TCDD; (2,3,7,8-Tetrachlorodibenzo-p-dioxin; Dioxin)	1746-01-6	1.30E-04	0.0014	0.0085
2696	Technetium(IV) oxide	12036-16-7	30	330	2,000
2697	Tellurium	13494-80-9	1.8	20	110
2698	Tellurium chloride	10026-07-0	0.63	6.9	42

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
2699	Tellurium hexafluoride	7783-80-4	0.0047	0.052	0.16
2700	Tellurium oxide; (Tellurium dioxide)	7446-07-3	0.38	4.3	26
2701	Tellurous acid	10049-23-7	0.42	4.6	28
2702	Terbium	7440-27-9	1.2	13	79
2703	Terbium oxide	12036-41-8	30	330	2,000
2704	Terbium(III,IV) oxide	12037-01-3	30	330	2,000
2705	Terbufos	13071-79-9	0.091	1	2.2
2706	Terephthalic acid	100-21-0	30	140	840
2707	Terephthaloyl chloride; (Benzenedicarbonyl dichloride, 1,4-)	100-20-9	7.5	83	500
2708	Terphenyl, p-	92-94-4	0.45	5	150
2709	Terphenyls; (Diphenylbenzene)	26140-60-3	0.45	5	1,400
2710	Tert-butyl benzoic acid, p-	98-73-7	6	23	140
2711	Tert-butyllithium	594-19-4	1.2	13	79
2712	Tert-butylphenol, p-; (Tert-butylphenol, 4-)	98-54-4	1.5	40	240
2713	Tert-butylpyridine, 4-	3978-81-2	30	330	2,000
2714	Tetanus toxin	676570-37-9	6.60E-09	7.20E-08	4.30E-07
2715	Tetraamminepalladium(II) nitrate	13601-08-6	1.2	13	79

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
2716	Tetrabromoethane, 1,1,2,2-; (Acetylene tetrabromide)	79-27-6	4.2	61	140
2717	Tetrabutyl ammonium phosphate	5574-97-0	120	1,300	7,900
2718	Tetrabutyl titanate; (Butyl titanate)	5593-70-4	9.4	100	620
2719	Tetrabutylammonium fluoride; (N,N,N-Tributyl-1-butanaminium, fluoride)	429-41-4	100	1,200	6,900
2720	Tetrabutylammonium hydroxide	2052-49-5	1.2	13	79
2721	Tetrabutylammonium nitrate	1941-27-1	0.033	0.36	2.2
2722	Tetrachloro-1,2-difluoroethane, 1,1,2,2-	76-12-0	1,200	13,000	1.20E+05
2723	Tetrachlorobenzene, 1,2,3,4-	634-66-2	4.1	45	230
2724	Tetrachlorobenzene, 1,2,4,5-	95-94-3	0.66	7.2	340
2725	Tetrachlorodibenzofuran, 2,3,7,8-	51207-31-9	4.30E-04	0.0046	0.028
2726	Tetrachlorodibenzo-p-dioxin, 1,2,3,8-	53555-02-5	0.003	0.033	0.2
2727	Tetrachloroethane (mixed isomers)	25322-20-7	4.5	49	290
2728	Tetrachloroethane, 1,1,1,2-	630-20-6	1.4	15	93
2729	Tetrachloroethane, 1,1,2,2-	79-34-5	21	820	1,000
2730	Tetrachlorohexafluorobutane, 2,2,3,3-; (FLON; CFC316)	375-34-8	0.97	11	64
2731	Tetrachlorosilane; (Silicon chloride)	10026-04-7	3.1	38	170
2732	Tetracosafuorotetradecahydro-phenanthrene; (Perfluorophenanthrene)	306-91-2	10	110	680

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
2733	Tetracyanoquinodimethane	1518-16-7	0.18	2	12
2734	Tetracycline hydrochloride	64-75-5	19	210	1,300
2735	Tetradecafluorohexane; (Perfluoro-n-hexane; Fluorinert FC72)	355-42-0	160	1,700	27,000
2736	Tetradecane; (n-Tetradecane)	629-59-4	25	280	1,700
2737	Tetradecanoic acid; (Myristic acid)	544-63-8	0.14	1.6	9.3
2738	Tetradecyltrimethylammonium bromide	1119-97-7	12	130	770
2739	Tetraethyl lead	78-00-2	0.3	4	40
2740	Tetraethyl orthosilicate; (Ethyl silicate; Tetraethoxysilane)	78-10-4	210	850	2,600
2741	Tetraethyl pyrophosphate; (TEPP)	107-49-3	0.091	1	10
2742	Tetraethylammonium chloride	56-34-8	0.45	5	30
2743	Tetraethylene glycol	112-60-7	87	960	5,700
2744	Tetraethylene glycol diacrylate	17831-71-9	3	27	160
2745	Tetraethylenepentamine	112-57-2	15	130	790
2746	Tetraethyltin; (Tetraethylstannane)	597-64-8	0.4	7	42
2747	Tetrafluoroethane, 1,1,2,2-; (HFC 134)	359-35-3	33,000	54,000	1.10E+05
2748	Tetrafluoroethylene	116-14-3	90	220	1,300
2749	Tetrafluorohydrazine	10036-47-2	10	480	2,900

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
2750	Tetrahydro-2,5-dimethyl furan	1003-38-9	12	130	790
2751	Tetrahydrodimethylfuran	1320-94-1	12	130	790
2752	Tetrahydrofuran	109-99-9	290	1,500	15,000
2753	Tetrahydrofuran-d8	1693-74-9	330	1,600	16,000
2754	Tetrahydromethyl-1,3-isobenzofurandione, 3A,4,7,7A-; (Methyltetrahydrophthalic anhydride)	26590-20-5	7.7	85	510
2755	Tetrahydronaphthalene, 1,2,3,4-; (Tetralin)	119-64-2	8.6	94	570
2756	Tetrahydropyridine, 1,2,3,6-	694-05-3	30	330	2,000
2757	Tetramethoxypropane, 1,1,3,3-; (Malonaldehyde bis(dimethyl acetal))	102-52-3	12	130	790
2758	Tetramethoxysilane; (Methyl silicate)	681-84-5	0.52	5.7	8.7
2759	Tetramethyl ammonium, tetrahydroborate(1-)	16883-45-7	0.23	2.5	15
2760	Tetramethyl ethylene diamine	110-18-9	15	170	280
2761	Tetramethyl lead	75-74-1	0.45	4	40
2762	Tetramethyl-1,3-butanediamine, N,N,N',N'-; (Tetramethyl butanediamine)	97-84-7	1.4	16	94
2763	Tetramethyl-3,5-heptanedione, 2,2,6,6-; (Dipivaloylmethane)	1118-71-4	30	330	2,000
2764	Tetramethyl-5-decyne-4,7-diol, 2,4,7,9-	126-86-3	30	330	2,000
2765	Tetramethylammonium chloride	75-57-0	0.15	1.7	9.9
2766	Tetramethylammonium hydroxide	75-59-2	0.0093	0.1	0.62

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
2767	Tetramethylammonium hydroxide pentahydrate	10424-65-4	0.019	0.2	1.2
2768	Tetramethylammonium silicate	53116-81-7	30	330	2,000
2769	Tetramethylbenzene, 1,2,3,5-	527-53-7	15	170	1,000
2770	Tetramethylbenzene, 1,2,4,5-	95-93-2	20	220	1,300
2771	Tetramethylbenzidine, 3,3',5,5'-	54827-17-7	0.44	4.9	29
2772	Tetramethylene sulfone; (Sulfolane; Tetrahydrothiophene-1,1-dioxide)	126-33-0	4.1	45	400
2773	Tetramethylsilane	75-76-3	1,000	1,300	2,700
2774	Tetranitromethane	509-14-8	0.38	4.2	14
2775	Tetraoxadodecane, 2,5,8,11-	112-49-2	12	130	790
2776	Tetraoxatetracosan-1-ol, 3,6,9,12-; ((Lauryl alcohol tri(oxyethylene) ethanol; BRIJ 30)	5274-68-0	30	330	2,000
2777	Tetraphenylarsonium chloride; (Tetraphenylarsenium chloride)	507-28-8	8.4	92	550
2778	Tetrapotassium ethylenediaminetetraacetate; (EDTA tetrapotassium salt)	5964-35-2	88	970	5,900
2779	Tetrapropoxysilane	682-01-9	12	130	790
2780	Tetrapropylammonium hydroxide	4499-86-9	1.2	13	79
2781	Tetrapropylorthotitanate	3087-37-4	30	330	2,000
2782	Tetrasodium pyrophosphate	7722-88-5	15	130	790
2783	Tetrazole, 1H-	288-94-8	1.2	13	79

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
2784	Tetrodotoxin; (fugu poison)	4368-28-9	6.30E-05	6.90E-04	0.0041
2785	Thallium	7440-28-0	0.06	3.3	20
2786	Thallium chloride; (Thallium(I) chloride)	7791-12-0	0.18	2	23
2787	Thallium hydroxide	12026-06-1	0.065	3.7	22
2788	Thallium nitrite	13826-63-6	0.074	4.2	25
2789	Thallium oxide; (Thallos oxide)	1314-12-1	0.062	3.5	21
2790	Thallium sulfate; (Sulfuric acid, dithallium(1+) salt)	10031-59-1	0.18	2	21
2791	Thallium(I) acetate; (Acetic acid, thallium(1+) salt)	563-68-8	0.077	4.3	26
2792	Thallium(I) carbonate (2:1)	6533-73-9	0.18	2	23
2793	Thallium(I) sulfate; (Sulfuric acid, dithallium(1+) salt)	7446-18-6	0.18	2	25
2794	Thallium(III) oxide; (Thallium sesquioxide; Thallic oxide)	1314-32-5	0.18	2	8.7
2795	Thallium(III) perchlorate hexahydrate	15596-83-5	0.18	10	60
2796	Thallos malonate	2757-18-8	0.18	2	25
2797	Thallos nitrate; (Thallium nitrate; Thallium(I) nitrate)	10102-45-1	0.078	4.3	26
2798	Thenoyltrifluoroacetone	326-91-0	0.9	9.9	59
2799	Thioacetamide	62-55-5	0.92	10	60
2800	Thioacetic acid	507-09-5	0.25	2.7	16

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
2801	Thiobis(4-chloro-6-methyl)phenol, 2,2'-	4418-66-0	0.12	1.3	7.8
2802	Thiocarbazide; (Thiocarbohydrazide)	2231-57-4	9.1	100	600
2803	Thiocresol, p-; (p-Toluenethiol)	106-45-6	0.66	7.2	43
2804	Thiocyanic acid, compound with guanidine (1:1); (Guanidine thiocyanate salt)	593-84-0	0.98	11	65
2805	Thiodiglycol	111-48-8	20	220	1,300
2806	Thiofanox; (Dacamox)	39196-18-4	0.77	8.5	51
2807	Thionazin; (Ethyl pyrazinyl phosphorothioate)	297-97-2	0.32	3.5	21
2808	Thionyl chloride	7719-09-7	0.97	12	68
2809	Thiophosphoryl chloride	3982-91-0	0.093	1	6.1
2810	Thiosemicarbazide; (1-Amino-2-thiourea)	79-19-6	1.1	12	13
2811	Thiourea	62-56-6	0.38	4.1	25
2812	Thiram; (Tetramethylthioperoxydicarbonic diamide)	137-26-8	0.15	250	1,500
2813	Thorium	7440-29-1	30	330	2,000
2814	Thorium hydroxide	13825-36-0	30	330	2,000
2815	Thorium nitrite	z-0079	30	330	2,000
2816	Thorium oxalate	2040-52-0	30	330	2,000
2817	Thorium oxide; (Thorium dioxide)	1314-20-1	30	330	2,000

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
2818	Thorium perchlorate	16045-17-3	30	330	2,000
2819	Thorium(IV) nitrate	13823-29-5	2.9	32	190
2820	Thulium	7440-30-4	30	330	2,000
2821	Thulium chloride	13537-18-3	7	77	460
2822	Thulium oxide	12036-44-1	30	330	2,000
2823	Thymol blue; (6,6'-(3H-2,1-benzoxathiol-3-ylidene)dithymol, S,S-dioxide)	76-61-9	30	330	2,000
2824	Thyodene; (Amylodextrin)	9005-84-9	30	330	2,000
2825	Tin	7440-31-5	6	67	400
2826	Tin fluoroborate	13814-97-6	15	170	990
2827	Tin hydroxide	12026-24-3	7.7	85	510
2828	Tin nitrate	41480-79-9	12	140	820
2829	Tin nitrite	100737-27-7	11	120	710
2830	Tin(II) chloride dihydrate; (Stannous chloride dihydrate)	10025-69-1	11	20	760
2831	Tin(II) oxide	1332-29-2	7.6	85	510
2832	Tin(II) sulfate; (Stannous sulfate)	7488-55-3	11	120	720
2833	Tin(IV) isopropoxide	1184-61-8	0.7	7.7	46
2834	Tin(IV) oxide; (Stannic oxide)	18282-10-5	7.6	85	510

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
2835	Titanium	7440-32-6	30	330	2,000
2836	Titanium aluminide	39410-63-4	8.3	92	550
2837	Titanium boride	12045-63-5	30	330	2,000
2838	Titanium carbide	12070-08-5	30	330	2,000
2839	Titanium chloride	7705-07-9	1.2	13	79
2840	Titanium hydride	7704-98-5	1.2	13	79
2841	Titanium oxide; (Titanium dioxide)	13463-67-7	30	330	2,000
2842	Titanium tetrachloride	7550-45-0	5	7.8	44
2843	Titanium(II) oxide	12137-20-1	30	330	2,000
2844	Titanium(III) fluoride	13470-08-1	14	150	920
2845	Titanium-based alloy; (Titanium compounds)	z-0081	30	330	2,000
2846	Toluene	108-88-3	250	2,100	14,000
2847	Toluene diisocyanate (mixed isomers)	26471-62-5	0.14	0.59	3.6
2848	Toluene diisocyanate, trimethylolpropane, epsilon-caprolactone polymer, methylated	71342-93-3	30	330	2,000
2849	Toluene-2,4-diisocyanate; (TDI)	584-84-9	0.14	0.59	3.6
2850	Toluene-2,6-diamine; (2-Methyl-1,3-benzenediamine)	823-40-5	3	33	200
2851	Toluene-2,6-diisocyanate	91-08-7	0.14	0.59	3.6

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
2852	Toluene-d8; (Deuterated toluene)	2037-26-5	270	2,300	15,000
2853	Toluenediamine, 2,4-; (2,4-Diaminotoluene)	95-80-7	0.075	17	99
2854	Toluenesulfonamide, p-; (Pasam)	70-55-3	7	77	460
2855	Toluenesulfonic acid, methyl ester, p-	80-48-8	1	11	68
2856	Toluenesulfonyl chloride, p-	98-59-9	0.45	5	30
2857	Toluenesulphonic acid monohydrate, para-; (4-Methylbenzenesulphonic acid monohydrate)	6192-52-5	7.7	85	510
2858	Toluenethiol, m-	108-40-7	0.16	1.8	11
2859	Toluidine, m-; (3-Methylaniline)	108-44-1	26	36	240
2860	Toluidine, o-	95-53-4	26	36	440
2861	Toluidine, p-; (4-Methylbenzenamine)	106-49-0	26	36	130
2862	Toxaphene; (Chlorinated camphene)	8001-35-2	1	20	200
2863	Trans-1,4-dichlorobutene; (2-Butylene dichloride)	110-57-6	0.4	4.4	19
2864	Tri(2-ethylhexyl) phosphate; (Trioctyl phosphate)	78-42-2	21	230	1,400
2865	Triacetin; (Triacetyl glycerin)	102-76-1	19	210	1,200
2866	Triamiphos	1031-47-6	0.06	0.66	4
2867	Triaryl sulfonium chloride salts	109037-76-5	1.1	12	72
2868	Triazine-1,3,5(2H,4H,6H)-triethanol, s-; (Onyxide 200)	4719-04-4	2.3	25	150

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
2869	Triazofos; (Triazophos)	24017-47-8	0.25	2.8	12
2870	Tribenzylamine	620-40-6	30	330	2,000
2871	Tributyl citrate	77-94-1	13	140	630
2872	Tributyl phosphate	126-73-8	15	90	1,400
2873	Tributyl(2,4-dichlorobenzyl) phosphonium chloride	115-78-6	0.53	5.9	35
2874	Tributyl-1-butanaminium iodide, N,N,N-; (Tetrabutylammonium iodide)	311-28-4	6	66	390
2875	Tributylphosphine	998-40-3	2.3	25	150
2876	Tributyltetradecylphosphonium chloride	81741-28-8	30	330	2,000
2877	Trichloramine; (Nitrogen chloride)	10025-85-1	0.3	3.4	19
2878	Trichloro(dichlorophenyl) silane; (Dichlorophenyltrichlorosilane)	27137-85-5	6.9	84	380
2879	Trichloro-2,2,2-trifluoroethane, 1,1,1-	354-58-5	100	1,200	6,900
2880	Trichloro-2-nitrosobenzene, 1,3,5-	1196-13-0	2.3	25	150
2881	Trichloroacetaldehyde hydrate; (Chloral hydrate)	302-17-0	2.5	27	95
2882	Trichloroacetaldehyde; (Chloral)	75-87-6	3.9	43	260
2883	Trichloroacetic acid	76-03-9	10	110	660
2884	Trichloroacetyl chloride	76-02-8	0.27	3	21
2885	Trichlorobenzene, 1,2,3-	87-61-6	15	60	360

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
2886	Trichlorobenzene, 1,2,4-	120-82-1	3.4	37	150
2887	Trichloroethane, 1,1,1-; (Methyl chloroform)	71-55-6	1,300	3,300	23,000
2888	Trichloroethane, 1,1,2-	79-00-5	160	970	2,700
2889	Trichloroethanol, 2,2,2-	115-20-8	6.1	68	120
2890	Trichloroethylene	79-01-6	700	2,400	20,000
2891	Trichlorofluoromethane; (Fluorotrichloromethane; Freon 11)	75-69-4	510	5,600	56,000
2892	Trichlorohydroxyethyl dimethylphosphonate; ((2,2,2-Trichloro-1-hydroxyethyl)dimethylphosphonate; Trichlorphon)	52-68-6	3	13	57
2893	Trichloroisocyanuric acid	87-90-1	1.2	13	80
2894	Trichloronaphthalene	1321-65-9	15	170	990
2895	Trichloronate; (Ethyl trichlorophenylethylphosphonothioate)	327-98-0	0.91	10	30
2896	Trichloronitrobenzene, 2,4,5-	89-69-0	2.3	25	150
2897	Trichlorophenol, 2,3,6-	933-75-5	1.8	20	120
2898	Trichlorophenol, 2,4,5-	95-95-4	2.5	27	160
2899	Trichlorophenol, 2,4,6-	88-06-2	2.5	27	160
2900	Trichlorophenoxy)propionic acid, 2-(2,4,5-; (Silvex)	93-72-1	0.82	9	130
2901	Trichlorophenoxyacetic acid, 2,4,5-; (2,4,5-T)	93-76-5	30	42	250
2902	Trichlorophenylsilane	98-13-5	5.2	63	290

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
2903	Trichloropropane, 1,2,3-	96-18-4	0.09	1,000	6,000
2904	Trichlorosilane	10025-78-2	3.3	40	180
2905	Trichlorotrifluoroethane; (Freon 113; CFC113)	76-13-1	9,600	30,000	34,000
2906	Tridecane	629-50-5	0.055	0.6	18
2907	Tridodecylamine; (Alamine 304; N,N-didodecyl-1-dodecanamine)	102-87-4	12	130	790
2908	Triethanolamine; (Trihydroxytriethylamine)	102-71-6	15	240	1,500
2909	Triethoxysilane	998-30-1	3.4	27	67
2910	Triethoxyvinylsilane	78-08-0	20	220	1,300
2911	Triethyl phosphate; (TEP)	78-40-0	23	250	320
2912	Triethyl phosphite	122-52-1	8.5	93	560
2913	Triethylaluminum	97-93-8	25	280	1,700
2914	Triethylamine	121-44-8	4.1	680	4,100
2915	Triethylammonium bicarbonate buffer ph 8.5	15715-58-9	30	330	2,000
2916	Triethylbenzene (mixed isomers)	25340-18-5	20	220	1,300
2917	Triethylene glycol	112-27-6	130	1,400	4,400
2918	Triethylene glycol monomethyl ether	112-35-6	34	370	2,200
2919	Triethylenetetramine	112-24-3	18	83	500

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
2920	Triethylethanaminium hydroxide, N,N,N-; (Tetraethyl ammonium hydroxide)	77-98-5	1.2	13	79
2921	Triethyloxonium tetrafluoroborate	368-39-8	19	220	1,300
2922	Triethylphosphorothioate; (Tepto)	126-68-1	0.22	2.4	15
2923	Trifluoro-1-(2-thienyl)-1,3-butanedione, 4,4,4-, boron difluoride	22502-27-8	0.33	3.6	22
2924	Trifluoro-4-nitro-m-cresol, alpha,alpha,alpha-; (4-Nitro-3-(trifluoromethyl)phenol)	88-30-2	0.42	4.7	28
2925	Trifluoroacetaldehyde hydrate; (2,2,2-Trifluoro-1,1-ethanediol)	421-53-4	0.98	11	65
2926	Trifluoroacetic acid anhydride	407-25-0	14	150	920
2927	Trifluoroacetic acid; (Trifluoroethanoic acid)	76-05-1	0.6	6.6	40
2928	Trifluoroacetyl chloride	354-32-5	18	180	1,100
2929	Trifluoroethanol, 2,2,2-; (Trifluoroethyl alcohol)	75-89-8	3.7	43	97
2930	Trifluoromethanesulfonic acid; (Triflic acid)	1493-13-6	12	130	790
2931	Trifluoromethanesulfonic anhydride	358-23-6	12	130	790
2932	Trifluoromethyl iodide; (Iodotrifluoromethane)	2314-97-8	52	570	3,400
2933	Trifluoromethyl)benzenamine, 3-; (m-Aminobenzal fluoride)	98-16-8	0.4	4.4	19
2934	Trifluralin; (2,6-Dinitro-N,N-dipropyl-4-(trifluoromethyl) benzenamine)	1582-09-8	1.2	13	78
2935	Triisobutylaluminum	100-99-2	44	290	1,800
2936	Trimethoxy(3,3,3-trifluoropropyl)silane	429-60-7	29	320	1,900

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
2937	Trimethoxyboroxine	102-24-9	15	170	1,000
2938	Trimethoxysilane	2487-90-3	2.5	4.1	12
2939	Trimethoxysilyl)-1-propanamine, 3-(	13822-56-5	30	330	2,000
2940	Trimethoxysilyl-1-propanethiol, 3-; (3-Mercaptopropyltrimethoxysilane)	4420-74-0	2.2	24	150
2941	Trimethoxysilylpropyl methacrylate, 3-; (Silane A-174)	2530-85-0	71	780	4,700
2942	Trimethoxysilylpropyl) ethylenediamine, N-(3-	1760-24-3	23	250	1,500
2943	Trimethoxyvinylsilane; (Vinyltrimethoxysilane; Silane, trimethoxyvinyl-)	2768-02-7	58	640	740
2944	Trimethyl borate	121-43-7	18	200	1,200
2945	Trimethyl phosphate; (TMP)	512-56-1	2.5	28	170
2946	Trimethyl phosphite	121-45-9	31	310	1,600
2947	Trimethyl-1,3-pentanediol monoisobutyrate, 2,2,4-; (Texanol)	25265-77-4	13	140	840
2948	Trimethyl-1-pentene, 2,4,4-; (Diisobutylene)	107-39-1	1,000	11,000	67,000
2949	Trimethyl-2,5,8,11-tetraoxatetradecan-13-ol, 4,7,10-	20324-34-9	30	330	2,000
2950	Trimethyl-2-hexene, 4,4,5-	55702-61-9	30	330	2,000
2951	Trimethyl-2-oxepanone (mixed isomers); (Hexanoic acid, 6-hydroxytrimethyl, epsilon-lactone)	64047-30-9	22	250	1,500
2952	Trimethylacetic acid; (Pivalic acid)	75-98-9	2.7	30	180
2953	Trimethylacetyl chloride; (Pivaloyl chloride)	3282-30-2	0.072	0.79	2.3

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
2954	Trimethylaluminum	75-24-1	16	170	1,000
2955	Trimethylamine	75-50-3	19	290	920
2956	Trimethylaniline, 2,4,6-	88-05-1	0.26	2.9	10
2957	Trimethylbenzene, 1,2,3-	526-73-8	690	1,800	2,300
2958	Trimethylbenzene, 1,2,4-; (Pseudocumene)	95-63-6	690	1,800	2,400
2959	Trimethylbenzene, -1,3,5; (Mesitylene)	108-67-8	690	1,800	2,400
2960	Trimethylchlorosilane	75-77-4	8	98	440
2961	Trimethyldecane, all isomers; (includes 62238-01-1, 62108-23-0)	62338-09-4	1,700	2,900	38,000
2962	Trimethylgallium	1445-79-0	1.2	13	79
2963	Trimethylhexane, 2,2,5-; (Neononane)	3522-94-9	3,100	33,000	2.00E+05
2964	Trimethyl-N'-(hydroxyethyl)-1,3-propanediamine, N,N,N'; (2-((3-(Dimethylamino)propyl)methylamino)ethanol)	82136-26-3	30	330	2,000
2965	Trimethyloctane, all isomers; (includes 62016-28-8, 62016-34-6, 62016-37-9, 54166-32-4)	98060-52-7	1,500	2,500	32,000
2966	Trimethylolpropane ethoxylate	50586-59-9	30	330	2,000
2967	Trimethylolpropane phosphite	824-11-3	0.23	2.5	2.8
2968	Trimethylphosphine	594-09-2	1.2	13	79
2969	Trimethylpyridine, 2,4,6-	108-75-8	6.4	70	420
2970	Trimethylsilanol	1066-40-6	8.4	92	550

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
2971	Trimethylsilylmethylithium	1822-00-0	1.2	13	79
2972	Trimethyltin chloride; (Chlorotrimethylstannane)	1066-45-1	0.34	20	120
2973	Trimethyltriheptylamine, 6,6',6''-; (Triisooctylamine)	2757-28-0	4.3	48	290
2974	Tri-n-butylamine	102-82-9	0.37	4.1	24
2975	Trinitrobenzene, 1,3,5-	99-35-4	1.5	16	54
2976	Trinitrochlorobenzene; (Picryl chloride)	28260-61-9	30	330	2,000
2977	Trinitrophenylmethylnitramine, 2,4,6-; (Tetryl)	479-45-8	4.5	14	1,300
2978	Trinitrotoluene, 2,4,6-	118-96-7	0.3	17	1,000
2979	Tri-n-octylphosphine oxide; (Trioctylphosphine oxide)	78-50-2	1	11	68
2980	Trioctylamine; (N,N-Dioctyl-1-octanamine)	1116-76-3	6	66	400
2981	Trioctylphosphine; (Tri-n-octylphosphine)	4731-53-7	0.11	1.2	7.2
2982	Tri-o-tolyl phosphate; (Triorthocresyl phosphate)	78-30-8	4.5	190	600
2983	Tripentaerythritol	78-24-0	30	330	2,000
2984	Triphenyl phosphate	115-86-6	9	360	2,100
2985	Triphenyl phosphite	101-02-0	4.8	53	320
2986	Triphenylborane	960-71-4	12	130	790
2987	Triphenylethoxysilane	1516-80-9	30	330	2,000

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
2988	Triphenylmethane triglycidyl ether	66072-38-6	30	330	2,000
2989	Triphenylphosphine	603-35-0	2.9	32	540
2990	Triphenyltin chloride; (Chlorotriphenylstannane)	639-58-7	0.65	20	38
2991	Tripotassium (2-hydroxyethyl)ethylenediaminetriacetate; (Tripotassium HEDTA)	62029-50-9	30	330	2,000
2992	Tripotassium arsenate	13464-36-3	5.2	57	340
2993	Tripropyl phosphate; (TPP)	513-08-6	13	76	1,100
2994	Tripropylamine	102-69-2	3.4	37	220
2995	Tripropylene glycol methyl ether	25498-49-1	9.6	110	630
2996	Tripropylene glycol monomethyl ether; (1-(2-(2-Methoxy-1-methylethoxy)-1-methylethoxy)-2-propanol)	20324-33-8	17	180	630
2997	Tripropylene glycol; (((1-Methyl-1,2-ethanediyl)bis(oxy))bispropanol)	24800-44-0	9	99	590
2998	Tris hydrochloride; (Trizma hydrochloride; Tris(hydroxymethyl) aminomethane hydrochloride)	1185-53-1	12	130	790
2999	Tris((hydroxymethyl)methylamino)propane-1-sulphonic acid, 3-	29915-38-6	30	330	2,000
3000	Tris(2-aminoethyl)amine	4097-89-6	1	11	49
3001	Tris(2-chloroethyl) phosphate; (2-Chloroethanol phosphate)	115-96-8	3.7	41	240
3002	Tris(dimethylaminomethyl)phenol, 2,4,6-	90-72-2	6.5	72	430
3003	Tris-hydroxymethylaminomethane; (THAM)	77-86-1	18	190	1,200
3004	Trisodium arsenate	13464-38-5	4.2	47	280

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
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No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
3005	Trisodium arsenate, heptahydrate; (Arsenic(V) acid, trisodium salt, heptahydrate (1:3:7))	64070-83-3	6.8	75	450
3006	Trisodium citrate	68-04-2	9.3	100	610
3007	Trisodium N-hydroxyethylethylenediaminetriacetate; (Trisodium N-(2-hydroxyethyl)ethylenediaminetriacetate)	139-89-9	30	330	2,000
3008	Tungsten	7440-33-7	10	330	2,000
3009	Tungsten boride	12007-09-9	11	120	730
3010	Tungsten carbide	12070-12-1	11	120	730
3011	Tungsten hexafluoride	7783-82-6	4.9	54	320
3012	Tungsten trioxide; (Tungsten(VI) oxide)	1314-35-8	13	140	860
3013	Tungsten(IV) chloride; (Tungsten tetrachloride)	13470-13-8	5.3	58	350
3014	Tungsten(IV) oxide	12036-22-5	12	130	790
3015	Tungstic acid	7783-03-1	14	150	920
3016	Tungstosilicic acid	11130-20-4	13	140	860
3017	Turpentine, (Alpha and beta pinene, 80-56-8)	8006-64-2	340	670	8,600
3018	Undecane	1120-21-4	15	170	990
3019	Undecanone, 2-; (Methyl nonyl ketone)	112-12-9	6.4	70	420
3020	Uranium	7440-61-1	0.6	5	30
3021	Uranium dioxide; (Uranium(IV) oxide)	1344-57-6	0.68	10	30

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
3022	Uranium hexafluoride; (Uranium fluoride)	7783-81-5	3.6	9.6	36
3023	Uranium hydride; (Uranium(III) hydride)	13598-56-6	0.61	5	30
3024	Uranium oxide; (Triuranium octaoxide)	1344-59-8	0.71	10	50
3025	Uranium telluride	12138-37-3	1.2	10	62
3026	Uranium telluride (U ₃ Te ₄)	12040-21-0	1	8.5	51
3027	Uranium trioxide	1344-58-7	0.045	0.5	3
3028	Uranyl acetate; (Uranium oxyacetate)	541-09-3	0.98	5.5	33
3029	Uranyl fluoride; (Uranium oxyfluoride)	13536-84-0	0.78	4.3	26
3030	Uranyl hydroxide (includes liquids)	13470-18-3	0.77	4.3	26
3031	Uranyl nitrate (solid); (Bis(nitrato-O,O')dioxouranium)	10102-06-4	0.99	5.5	33
3032	Uranyl nitrate (yellow salt)	36478-76-9	0.99	5.5	33
3033	Uranyl nitrate hexahydrate	13520-83-7	1.3	7	42
3034	Uranyl nitrite (liquids)	z-0087	0.91	5	30
3035	Urea	57-13-6	30	280	1,700
3036	Urea peroxide; (Urea hydrogen peroxide)	124-43-6	1.2	13	79
3037	Urea, N,N''-(4-methyl-1,3-phenylene)bis(N',N'-dimethyl-	17526-94-2	12	130	790
3038	Urethane; (Carbamic acid, ethyl ester; Ethyl carbamate)	51-79-6	5.4	60	360

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
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No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
3039	Valeric acid; (n-Pentanoic acid)	109-52-4	2.2	24	140
3040	Valinomycin	2001-95-8	0.23	2.5	15
3041	Vanadium	7440-62-2	3	5.8	35
3042	Vanadium pentoxide; (Vanadium(V) oxide)	1314-62-1	0.64	7	70
3043	Vanadium sulfate	13566-06-8	0.013	0.14	100
3044	Vanadium tetrachloride	7632-51-1	0.017	0.19	130
3045	Vanadium trioxide	1314-34-7	0.0067	0.074	51
3046	Vanadium(II) sulfate heptahydrate	36907-42-3	0.025	0.27	190
3047	Vanadium(III) sulfate	13701-70-7	0.017	0.19	130
3048	Vanadium, trichlorooxo-	7727-18-6	0.11	1.2	850
3049	Vanadyl sulfate pentahydrate; (Vanadium(IV) sulfate oxide hydrate)	12439-96-2	0.023	0.25	170
3050	Vanadyl sulfate; (Oxysulfatovanadium)	27774-13-6	0.015	0.16	110
3051	Veratraldehyde	120-14-9	6	66	400
3052	Vermiculite, exfoliated	1318-00-9	32	360	2,200
3053	Vinyl 2-chloroethylsulfide; (2-Chloroethylthio ethene)	81142-02-1	0.034	0.38	2.3
3054	Vinyl acetate	108-05-4	24	130	630
3055	Vinyl acetate-vinyl chloride copolymer; (Acetic acid, vinyl ester, polymer with chloroethylene)	9003-22-9	120	1,300	7,900

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
3056	Vinyl acrylic resin; (Vinyl acetate, polymer with n-butyl acrylate)	25067-01-0	30	330	2,000
3057	Vinyl bromide; (Bromoethylene)	593-60-2	170	1,900	11,000
3058	Vinyl chloride	75-01-4	640	3,100	12,000
3059	Vinyl ethyl ether; (Ethoxy ethene)	109-92-2	31	340	2,000
3060	Vinyl fluoride	75-02-5	1,100	12,000	71,000
3061	Vinyl sulfoxide	1115-15-7	0.4	4.4	26
3062	Vinyl terminated dimethylsiloxane-diphenylsiloxane copolymer	68951-96-2	120	1,300	7,900
3063	Vinyl trichlorosilane	75-94-5	4	48	220
3064	Vinyl-2-pyrrolidinone, 1-	88-12-0	0.68	29	140
3065	Vinylbenzylchloride; (4-Vinylbenzyl chloride)	1592-20-7	1.2	13	79
3066	Vinylcyclohexene, 4-; (Cyclohexenylethylene)	100-40-3	1.3	930	1,500
3067	Vinylformamide, N-	13162-05-5	1.2	13	79
3068	Vinylidene chloride; (1,1-Dichloroethylene)	75-35-4	180	2,000	4,000
3069	Vinylidene fluoride; (1,1-Difluoroethene)	75-38-7	3,900	15,000	28,000
3070	Vinylmagnesium bromide	1826-67-1	1.2	13	79
3071	Vinylpyrrolidone/vinyl acetate copolymer	25086-89-9	1.9	21	120
3072	Viscumin; (Mistletoe lectin)	83590-17-4	7.70E-06	8.50E-05	5.10E-04

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
3073	Volkensin	91933-11-8	3.70E-07	4.00E-06	2.40E-05
3074	Warfarin	81-81-2	1.8	20	350
3075	Warfarin sodium	129-06-6	0.82	9	83
3076	Xenon	7440-63-3	3.50E+05	1.20E+06	2.10E+06
3077	Xylene, m- (includes o- (95-47-6) and p- (106-42-3) isomers)	108-38-3	560	4,000	11,000
3078	Xylenes	1330-20-7	560	4,000	11,000
3079	Xylenol orange tetrasodium salt	3618-43-7	30	330	2,000
3080	Xylidines, mixed isomers; includes 2,6-xylidine (87-62-7) and 2,3-xylidine (87-59-2)	1300-73-8	7.4	120	740
3081	Xylylene dichloride	28347-13-9	0.18	2	8.8
3082	Ytterbium fluoride	13760-80-0	30	330	2,000
3083	Ytterbium oxide	1314-37-0	30	330	2,000
3084	Yttrium	7440-65-5	3	33	200
3085	Yttrium chloride, hexahydrate	10025-94-2	10	110	670
3086	Yttrium oxide	11130-29-3	3.5	40	240
3087	Yttrium trioxide	1314-36-9	3.8	43	260
3088	Zeolites, CaA	68989-20-8	30	330	2,000
3089	Zeolites, KA	68989-21-9	30	330	2,000

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
3090	Zeolites, NaA	68989-22-0	30	330	2,000
3091	Zeolites, NaX	68989-23-1	30	330	2,000
3092	Zinc	7440-66-6	6	21	120
3093	Zinc acetate	557-34-6	0.19	2.1	12
3094	Zinc acetate dihydrate	5970-45-6	2.4	26	160
3095	Zinc bromide	7699-45-8	6	66	400
3096	Zinc carbonate	3486-35-9	12	130	750
3097	Zinc carbonate hydroxide	5263-02-5	13	150	870
3098	Zinc chloride	7646-85-7	2	800	4,800
3099	Zinc chromate; (Pigment yellow)	13530-65-9	0.03	9	54
3100	Zinc cyanide	557-21-1	14	18	110
3101	Zinc fluoride	7783-49-5	20	230	1,400
3102	Zinc hydroxide	20427-58-1	6	66	400
3103	Zinc nitrate	7779-88-6	17	190	1,100
3104	Zinc nitrate hexahydrate	10196-18-6	27	300	1,800
3105	Zinc nitrite	10102-02-0	14	160	950
3106	Zinc oxide	1314-13-2	10	15	2,500

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed in alphabetical order)

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
3107	Zinc perchlorate	13637-61-1	24	270	1,600
3108	Zinc phenolsulfonate; (Zinc p-hydroxybenzenesulfonate)	127-82-2	5.4	59	360
3109	Zinc phosphate (3:2)	7779-90-0	12	36	220
3110	Zinc phosphide	1314-84-7	1	11	19
3111	Zinc stearate	557-05-1	30	330	2,000
3112	Zinc sulfate	7733-02-0	15	97	580
3113	Zinc sulfate heptahydrate (1:1:7)	7446-20-0	27	170	1,000
3114	Zinc sulfide	1314-98-3	8.9	99	590
3115	Zirconium	7440-67-7	10	83	500
3116	Zirconium boride	12045-64-6	12	100	620
3117	Zirconium carbide	12070-14-3	13	110	630
3118	Zirconium chloride oxide octahydrate	13520-92-8	35	300	1,800
3119	Zirconium fluoride	7783-64-4	17	180	1,100
3120	Zirconium hydride	7704-99-6	10	85	510
3121	Zirconium hydroxide	14475-63-9	17	150	870
3122	Zirconium nitrate	13746-89-9	37	320	1,900
3123	Zirconium nitride	25658-42-8	12	97	580

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
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No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
3124	Zirconium nitrite	z-0088	30	250	1,500
3125	Zirconium oxide	1314-23-4	14	110	680
3126	Zirconium oxynitrate hydrate	14985-18-3	27	230	1,400
3127	Zirconium phosphide	12037-72-8	17	140	840
3128	Zirconium potassium fluoride; (Potassium fluorozirconate)	16923-95-8	19	200	1,200
3129	Zirconium silane	z-0089	16	140	810
3130	Zirconium silicate; (Zirconium silicon oxide; Zircon)	10101-52-7	21	170	1,000
3131	Zirconium sulfate tetrahydrate	7446-31-3	39	320	1,900
3132	Zirconium tetrachloride; (zirconium chloride)	10026-11-6	26	220	1,300
3133	Zirconyl chloride; (Zirconium oxychloride)	7699-43-6	20	160	980
3134	Zirconyl nitrate; (Bis(nitrato-O)oxozirconium)	13826-66-9	25	220	1,300
3135	Zonyl fsn fluorosurfactant	65545-80-4	41	460	2,700
3136	zzAcrylic latex	z-0090	30	330	2,000
3137	zzAlumination 301	z-0091	30	330	2,000
3138	zzHydranal coulomat / AG	z-0092	30	330	2,000
3139	zzHydrocarbon polymer	z-0093	30	330	2,000
3140	zzHydrocount [®] , LSC cocktail	z-0094	560	4,000	11,000

Table 4: Protective Action Criteria (PAC) Rev. 29 (mg/m³)
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No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs (mg/m ³)		
			PAC-1	PAC-2	PAC-3
3141	zzIconol®	z-0095	30	330	2,000
3142	zzMonophase- S	z-0097	30	330	2,000
3143	zzMornar	z-0098	30	330	2,000
3144	zzOpti-Fluor; (Alkyl benzene blend, 3% tributylphosphate)	z-0099	1.2	13	79
3145	zzPropanol (-2) aluminum derivative	z-0101	6	66	400
3146	zzSicapent	z-0103	30	330	2,000