

**Table 3: Protective Action Criteria (PAC) Rev. 29 based on applicable 60-minute AEGLs, ERPGs, or TEELs. The chemicals are listed by CASRN. May 2016**

**Table 3** presents a list of chemicals and associated PAC values in numerical order based on the CASRN<sup>1</sup> for each chemical. Chemicals without an identified CASRN number are issued an identification number, preceded by the letter “z” for purposes of identification in the PAC data set. PACs are presented in either ppm or mg/m<sup>3</sup>.

The columns presented in Table 3 provide the following information:

Heading	Definition
No.	The ordered numbering of the chemicals as they appear in this listing by CASRN
Chemical Name	The name of the chemical substance submitted to the PAC development team
CASRN	The Chemical Abstracts Service Registry Number 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
Units	The units of the original request (ppm or mg/m <sup>3</sup> )

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 no 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, 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>.

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

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**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
1	<b>Formaldehyde</b>	<b>50-00-0</b>	<b>0.90</b>	<b>14</b>	<b>56</b>	ppm
2	Guanidine hydrochloride	50-01-1	1.4	16	94	mg/m <sup>3</sup>
3	DDT; (Dichlorodiphenyltrichloroethane)	50-29-3	3	34	210	mg/m <sup>3</sup>
4	Benzo(a)pyrene; (Coal tar pitch volatiles)	50-32-8	0.6	120	700	mg/m <sup>3</sup>
5	Piperonyl butoxide	51-03-6	6.5	72	1,200	mg/m <sup>3</sup>
6	Fluorouracil	51-21-8	1.7	19	46	mg/m <sup>3</sup>
7	Dinitrophenol, 2,4-	51-28-5	0.61	6.8	16	mg/m <sup>3</sup>
8	<b>Nitrogen mustard-2; (Bis(b-chloroethyl)methylamine)</b>	<b>51-75-2</b>	0.002	<b>0.022</b>	<b>0.37</b>	mg/m <sup>3</sup>
9	Urethane; (Carbamic acid, ethyl ester; Ethyl carbamate)	51-79-6	5.4	60	360	mg/m <sup>3</sup>
10	Carbachol chloride	51-83-2	1.4	15	90	mg/m <sup>3</sup>
11	Trichlorohydroxyethyl dimethylphosphonate; ((2,2,2-Trichloro-1-hydroxyethyl)dimethylphosphonate)	52-68-6	3	13	57	mg/m <sup>3</sup>
12	Dibenza(a,h)anthracene	53-70-3	0.093	1	2.9	mg/m <sup>3</sup>
13	Acetylaminofluorene, 2-	53-96-3	1.2	14	480	mg/m <sup>3</sup>
14	Nicotine; (Pyridine, (S)-3-(1-methyl-2-pyrrolidinyl)-); (Includes DL-Nicotine, 22083-74-5)	54-11-5	1.5	3.5	35	mg/m <sup>3</sup>
15	Benzamide	55-21-0	4.7	52	310	mg/m <sup>3</sup>
16	Fenthion	55-38-9	0.15	5.9	35	mg/m <sup>3</sup>
17	Nitroglycerin	55-63-0	0.1	2	75	mg/m <sup>3</sup>

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 Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

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No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
18	Nitrogen mustard hydrochloride	55-86-7	0.013	0.14	0.83	mg/m <sup>3</sup>
19	Diisopropylfluorophosphate; (Phosphorofluoridic acid, bis(1-methylethyl) ester)	55-91-4	0.33	3.6	22	mg/m <sup>3</sup>
20	Diaminodipropylamine, 3,3-; (Aminobis(propylamine))	56-18-8	0.41	4.5	27	ppm
21	<b>Carbon tetrachloride</b>	<b>56-23-5</b>	1.2	<b>13</b>	<b>340</b>	ppm
22	Cantharidin	56-25-7	0.39	4.3	33	mg/m <sup>3</sup>
23	Tetraethylammonium chloride	56-34-8	0.45	5	30	mg/m <sup>3</sup>
24	<b>Parathion</b>	<b>56-38-2</b>	0.15	<b>1.5</b>	<b>2.0</b>	mg/m <sup>3</sup>
25	Methylcholanthrene, 3-	56-49-5	0.2	2.3	29	mg/m <sup>3</sup>
26	Diethylstilbestrol; ((E)-4,4'-(1,2-Diethyl-1,2-ethenediyl)bisphenol)	56-53-1	9	99	590	mg/m <sup>3</sup>
27	Benzo(a)anthracene	56-55-3	0.6	120	700	mg/m <sup>3</sup>
28	Coumaphos	56-72-4	0.27	3	13	mg/m <sup>3</sup>
29	Chloramphenicol	56-75-7	1.5	10	500	mg/m <sup>3</sup>
30	Glycerine (mist); (Glycerol; Glycerin)	56-81-5	45	180	1,100	mg/m <sup>3</sup>
31	Allyl isothiocyanate; (Mustard oil)	57-06-7	1	2.8	17	ppm
32	Ammonium, hexadecyltrimethyl-, bromide; (Hexadecyltrimethylammonium bromide)	57-09-0	1.2	14	81	mg/m <sup>3</sup>
33	Hexadecanoic acid; (Palmitic acid)	57-10-3	0.19	2.1	12	mg/m <sup>3</sup>
34	Octadecanoic acid, n-; (Stearic acid)	57-11-4	14	150	910	mg/m <sup>3</sup>

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**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
35	Cyanide	57-12-5	6	8.3	50	mg/m <sup>3</sup>
36	Urea	57-13-6	30	280	1,700	mg/m <sup>3</sup>
37	<b>Dimethylhydrazine, 1,1-</b>	<b>57-14-7</b>	0.27	<b>3.0</b>	<b>11</b>	ppm
38	Strychnine	57-24-9	0.45	0.5	3	mg/m <sup>3</sup>
39	Physostigmine	57-47-6	0.41	4.5	27	mg/m <sup>3</sup>
40	Propylene glycol; (1,2-Propanediol)	57-55-6	30	1,300	7,900	mg/m <sup>3</sup>
41	Propiolactone, b-	57-57-8	1.5	5	30	ppm
42	Physostigmine salicylate (1:1)	57-64-7	0.23	2.5	15	mg/m <sup>3</sup>
43	Chlordane	57-74-9	4.5	50	500	mg/m <sup>3</sup>
44	Oxydiphenoxarsine, 10,10'-; (Phenoxarsine oxide)	58-36-6	5	14	84	mg/m <sup>3</sup>
45	Lindane; (gamma-Benzenehexachloride); includes the isomers (319-84-6, 319-85-7, 60	58-89-9	9.1	100	1,000	mg/m <sup>3</sup>
46	Chloro-m-cresol, 4-	59-50-7	5.5	60	360	mg/m <sup>3</sup>
47	Phenylhydrazine hydrochloride	59-88-1	23	250	1,500	mg/m <sup>3</sup>
48	Nitrosomorpholine, N-	59-89-2	0.85	9.3	56	mg/m <sup>3</sup>
49	Ethylenediaminetetraacetic acid; (EDTA)	60-00-4	4.1	45	200	mg/m <sup>3</sup>
50	Phenylazo)aniline, p-(	60-09-3	0.66	7.2	43	mg/m <sup>3</sup>
51	Dimethylaminoazobenzene, 4-	60-11-7	0.6	6.6	40	mg/m <sup>3</sup>

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No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
52	Mercaptoethanol, 2-	60-24-2	0.6	3.5	29	ppm
53	Ethyl ether	60-29-7	500	3,200	19,000	ppm
54	<b>Monomethylhydrazine; (Methyl hydrazine)</b>	<b>60-34-4</b>	0.082	<b>0.90</b>	<b>2.7</b>	ppm
55	Acetamide	60-35-5	21	230	1,400	mg/m <sup>3</sup>
56	Strychnine sulfate (2:1)	60-41-3	0.45	5	30	mg/m <sup>3</sup>
57	Dimethoate	60-51-5	2.7	30	170	mg/m <sup>3</sup>
58	Dieldrin	60-57-1	0.3	6.8	450	mg/m <sup>3</sup>
59	Amitrole	61-82-5	0.6	23	220	mg/m <sup>3</sup>
60	Phenylmercury acetate; (Acetoxyphenylmercury)	62-38-4	2	22	47	mg/m <sup>3</sup>
61	Phenacetin; (p-Acetophenetidide)	62-44-2	7.3	80	330	mg/m <sup>3</sup>
62	Methanesulfonic acid, ethyl ester; (Ethyl methanesulfonate)	62-50-0	2.1	23	140	mg/m <sup>3</sup>
63	<b>Aniline</b>	<b>62-53-3</b>	<b>8.0</b>	<b>12</b>	<b>20</b>	ppm
64	Calcium acetate	62-54-4	13	140	850	mg/m <sup>3</sup>
65	Thioacetamide	62-55-5	0.92	10	60	mg/m <sup>3</sup>
66	Thiourea	62-56-6	0.38	4.1	25	mg/m <sup>3</sup>
67	Dichlorovos; (Dichlorvos)	62-73-7	1.8	20	200	mg/m <sup>3</sup>
68	Fluoroacetic acid, sodium salt; (Sodium fluoroacetate)	62-74-8	0.15	0.5	5	mg/m <sup>3</sup>

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			PAC-1	PAC-2	PAC-3	Units
69	Nitrosodimethylamine	62-75-9	0.082	0.9	10	mg/m <sup>3</sup>
70	Sodium oxalate	62-76-0	11	120	2,200	mg/m <sup>3</sup>
71	Carbaryl; (Sevin)	63-25-2	1.5	100	600	mg/m <sup>3</sup>
72	Cytidine monophosphate; (Cytidine 5-monophosphate free acid)	63-37-6	4.3	48	290	mg/m <sup>3</sup>
73	Sulfanilamide	63-74-1	13	140	830	mg/m <sup>3</sup>
74	Cumenol methylcarbamate, m-; (3-(1-Methylethyl)phenol methylcarbamate)	64-00-6	0.095	1	6.3	mg/m <sup>3</sup>
75	Ethylenediaminetetraacetic acid, tetrasodium salt; (Tetrasodium EDTA)	64-02-8	75	830	5,000	mg/m <sup>3</sup>
76	<b>Ethanol: (Ethyl alcohol)</b>	<b>64-17-5</b>	<b>1,800</b>	<b>3,300</b>	15,000	ppm
77	<b>Formic acid</b>	<b>64-18-6</b>	<b>3</b>	<b>25</b>	<b>250</b>	ppm
78	<b>Acetic acid</b>	<b>64-19-7</b>	<b>5</b>	<b>35</b>	<b>250</b>	ppm
79	Ammonium, tetramethyl-, bromide; (Tetramethylammonium bromide)	64-20-0	0.15	1.7	9.9	mg/m <sup>3</sup>
80	Diethyl sulfate	64-67-5	0.16	1.8	11	ppm
81	Tetracycline hydrochloride	64-75-5	19	210	1,300	mg/m <sup>3</sup>
82	Colchicine	64-86-8	0.082	0.9	5.1	mg/m <sup>3</sup>
83	Nicotine sulfate	65-30-5	0.82	9	18	mg/m <sup>3</sup>
84	Benzoic acid	65-85-0	13	140	830	mg/m <sup>3</sup>
85	Hexanal	66-25-1	6	66	86	ppm

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No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
86	Dinitrophenol, 2,3-	66-56-8	1.1	13	75	mg/m <sup>3</sup>
87	Phenanthroline, 1,10-	66-71-7	0.25	2.7	16	mg/m <sup>3</sup>
88	Cycloheximide	66-81-9	0.18	2	12	mg/m <sup>3</sup>
89	Diethylenetriaminepentaacetic acid	67-43-6	3.5	39	230	mg/m <sup>3</sup>
90	<b>Methanol; (Methyl alcohol)</b>	<b>67-56-1</b>	<b>530</b>	<b>2,100</b>	<b>7,200</b>	ppm
91	Isopropyl alcohol	67-63-0	400	2,000	12,000	ppm
92	<b>Acetone</b>	<b>67-64-1</b>	<b>200</b>	<b>3,200</b>	<b>5,700</b>	ppm
93	<b>Chloroform</b>	<b>67-66-3</b>	2	<b>64</b>	<b>3,200</b>	ppm
94	Dimethyl sulfoxide; (DMSO)	67-68-5	150	290	1,800	ppm
95	Dimethyl sulfone	67-71-0	15	170	990	mg/m <sup>3</sup>
96	Hexachloroethane	67-72-1	3	36	300	ppm
97	Trisodium citrate	68-04-2	9.3	100	610	mg/m <sup>3</sup>
98	Ethanaminium, N,N,N-triethyl-, iodide (1:1); (Tetraethylammoniumiodide; Ammonium, te	68-05-3	0.67	1.3	7.6	mg/m <sup>3</sup>
99	Mercaptoacetic acid; (Thioglycolic acid)	68-11-1	3	33	200	ppm
100	<b>Dimethylformamide, N,N-</b>	<b>68-12-2</b>	<b>2</b>	<b>91</b>	<b>530</b>	ppm
101	Guanidine, N-methyl-N'-nitro-N-nitroso-	70-25-7	0.27	3	18	mg/m <sup>3</sup>
102	Toluenesulfonamide, p-; (Pasam)	70-55-3	7	77	460	mg/m <sup>3</sup>

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			PAC-1	PAC-2	PAC-3	Units
103	Aminopropiophenone, 4-	70-69-9	0.51	5.6	35	mg/m <sup>3</sup>
104	n-Propanol (Propyl alcohol, n-)	71-23-8	250	670	4,000	ppm
105	Butyl alcohol, n-; (n-Butanol)	71-36-3	60	800	8,000	ppm
106	<b>Benzene</b>	<b>71-43-2</b>	<b>52</b>	<b>800</b>	<b>4,000</b>	ppm
107	<b>Trichloroethane, 1,1,1-; (Methyl chloroform)</b>	<b>71-55-6</b>	<b>230</b>	<b>600</b>	<b>4,200</b>	ppm
108	Digitoxin	71-63-6	0.016	0.18	15	mg/m <sup>3</sup>
109	Ammonium, tetraethyl-, bromide; (Tetraethyl ammonium bromide)	71-91-0	1.1	12	43	mg/m <sup>3</sup>
110	Sodium lactate; (Lactic acid, monosodium salt)	72-17-3	7.6	84	790	mg/m <sup>3</sup>
111	Endrin	72-20-8	1.8	20	2,000	mg/m <sup>3</sup>
112	Methoxychlor	72-43-5	30	150	4,500	mg/m <sup>3</sup>
113	Alizarin; (1,2-Dihydroxyanthraquinone; Turkey red oil)	72-48-0	0.49	5.4	32	mg/m <sup>3</sup>
114	DDD; (1,1-bis(4-Chlorophenyl)-2,2-dichloroethane)	72-54-8	2.4	26	160	mg/m <sup>3</sup>
115	DDE; (2,2-bis(p-Chlorophenyl)-1,1-dichloroethylene)	72-55-9	6.5	72	170	mg/m <sup>3</sup>
116	Methane	74-82-8	65,000	2.30E+05	4.00E+05	ppm
117	<b>Methyl bromide; (Bromomethane)</b>	<b>74-83-9</b>	19	<b>210</b>	<b>740</b>	ppm
118	Ethane	74-84-0	65,000	2.30E+05	4.00E+05	ppm
119	Ethylene	74-85-1	600	6,600	40,000	ppm

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			PAC-1	PAC-2	PAC-3	Units
120	Acetylene	74-86-2	65,000	2.30E+05	4.00E+05	ppm
121	<b>Methyl chloride</b>	<b>74-87-3</b>	<b>150</b>	<b>910</b>	<b>3,000</b>	ppm
122	<b>Methyl iodide</b>	<b>74-88-4</b>	<b>25</b>	<b>50</b>	<b>125</b>	ppm
123	<b>Monomethylamine; (Methylamine)</b>	<b>74-89-5</b>	<b>15</b>	<b>64</b>	<b>350</b>	ppm
124	<b>Hydrogen cyanide; (Hydrocyanic acid)</b>	<b>74-90-8</b>	<b>2.0</b>	<b>7.1</b>	<b>15</b>	ppm
125	<b>Methyl mercaptan</b>	<b>74-93-1</b>	<b>0.005</b>	<b>23</b>	<b>68</b>	ppm
126	Dibromomethane; (Methylene dibromide)	74-95-3	3	33	200	ppm
127	Bromoethane; (Ethyl bromide)	74-96-4	15	370	3,500	ppm
128	Bromochloromethane	74-97-5	600	830	5,000	ppm
129	<b>Propane</b>	<b>74-98-6</b>	<b>5,500</b>	<b>17,000</b>	<b>33,000</b>	ppm
130	Methyl acetylene	74-99-7	230	2,500	15,000	ppm
131	Ethyl chloride; (Chloroethane)	75-00-3	300	5,100	20,000	ppm
132	<b>Vinyl chloride</b>	<b>75-01-4</b>	<b>250</b>	<b>1,200</b>	<b>4,800</b>	ppm
133	Vinyl fluoride	75-02-5	570	6,200	37,000	ppm
134	Iodoethane; (Ethyl iodide)	75-03-6	2.1	24	140	ppm
135	<b>Ethylamine; (Monoethylamine; Ethylamine anhydrous)</b>	<b>75-04-7</b>	<b>7.5</b>	<b>49</b>	<b>270</b>	ppm
136	<b>Acetonitrile</b>	<b>75-05-8</b>	<b>13</b>	<b>50</b>	<b>150</b>	ppm

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137	<b>Acetaldehyde</b>	<b>75-07-0</b>	<b>45</b>	<b>270</b>	<b>840</b>	ppm
138	<b>Ethanethiol; (Ethyl mercaptan)</b>	<b>75-08-1</b>	<b>1.0</b>	<b>120</b>	<b>360</b>	ppm
139	<b>Methylene chloride; (Dichloromethane)</b>	<b>75-09-2</b>	<b>200</b>	<b>560</b>	<b>6,900</b>	ppm
140	Methylene fluoride; (Difluoromethane; HFC-32)	75-10-5	3,000	6,500	39,000	ppm
141	Diiodomethane; (Methylene iodide)	75-11-6	2.4	27	160	mg/m <sup>3</sup>
142	Formamide	75-12-7	30	110	650	ppm
143	Isocyanic acid	75-13-8	2	7.1	15	ppm
144	<b>Carbon disulfide</b>	<b>75-15-0</b>	<b>13</b>	<b>160</b>	<b>480</b>	ppm
145	Methylmagnesium bromide, 3.0 m in diethyl ether	75-16-1	0.25	2.7	16	ppm
146	<b>Dimethyl sulfide; (2-Thiopropene)</b>	<b>75-18-3</b>	<b>0.5</b>	<b>1,000</b>	<b>5,000</b>	ppm
147	Cyclopropane	75-19-4	85	930	5,600	ppm
148	Calcium carbide	75-20-7	120	1,300	7,900	mg/m <sup>3</sup>
149	<b>Ethylene oxide; (Oxirane)</b>	<b>75-21-8</b>	<b>5</b>	<b>45</b>	<b>200</b>	ppm
150	Trimethylaluminum	75-24-1	16	170	1,000	mg/m <sup>3</sup>
151	Bromoform; (Tribromomethane)	75-25-2	1.5	6.8	41	ppm
152	Bromopropane, 2-	75-26-3	120	1,300	1,400	ppm
153	Bromodichloromethane	75-27-4	1.3	14	85	mg/m <sup>3</sup>

Compounds with unknown CASRN are issued a "z-number" for identification purposes.  
 Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
154	Methylpropane, 2-; (Isobutane)	75-28-5	5,500	17,000	53,000	ppm
155	Isopropyl chloride; (2-Chloropropane)	75-29-6	150	270	1,600	ppm
156	Isopropylamine; (2-Propanamine)	75-31-0	10	670	4,000	ppm
157	Ethylidene chloride, 1,1-; (1,1-Dichloroethane)	75-34-3	300	670	4,000	ppm
158	<b>Vinylidene chloride; (1,1-Dichloroethylene)</b>	<b>75-35-4</b>	45	<b>500</b>	<b>1,000</b>	ppm
159	Acetyl chloride	75-36-5	0.85	9.4	56	ppm
160	<b>Difluoroethane; (1,1-Difluoroethane; HFC 152a)</b>	<b>75-37-6</b>	<b>10,000</b>	<b>15,000</b>	<b>25,000</b>	ppm
161	Vinylidene fluoride; (1,1-Difluoroethene)	75-38-7	1,500	5,600	11,000	ppm
162	Dichlorofluoromethane; (Freon 21, CFC 21)	75-43-4	30	8,300	50,000	ppm
163	<b>Phosgene</b>	<b>75-44-5</b>	0.027	<b>0.30</b>	<b>0.75</b>	ppm
164	Chlorodifluoromethane; (Freon 22; CFC 22)	75-45-6	1,250	2,400	14,000	ppm
165	Carbon trifluoride; (Trifluoromethane; Fluoroform)	75-46-7	440	4,900	29,000	ppm
166	<b>Trimethylamine</b>	<b>75-50-3</b>	<b>8.0</b>	<b>120</b>	<b>380</b>	ppm
167	Nitromethane	75-52-5	60	210	1,000	ppm
168	<b>Methyl dichlorosilane; (Dichloromethylsilane)</b>	<b>75-54-7</b>	<b>0.90</b>	<b>11</b>	<b>50</b>	ppm
169	<b>Propyleneimine, 1,2-</b>	<b>75-55-8</b>	0.4	<b>12</b>	<b>23</b>	ppm
170	<b>Propylene oxide; (Methyl ethylene oxide)</b>	<b>75-56-9</b>	<b>73</b>	<b>290</b>	<b>870</b>	ppm

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
171	Tetramethylammonium chloride	75-57-0	0.15	1.7	9.9	mg/m <sup>3</sup>
172	Tetramethylammonium hydroxide	75-59-2	0.0093	0.1	0.62	mg/m <sup>3</sup>
173	Cacodylic acid; (Arsenic acid, dimethyl-)	75-60-5	2.8	25	140	mg/m <sup>3</sup>
174	Bromotrichloromethane	75-62-7	0.088	0.97	5.8	ppm
175	Bromotrifluoromethane; (Trifluorobromomethane)	75-63-8	3,000	4,200	40,000	ppm
176	Butylamine, tert-	75-64-9	0.85	9.3	56	ppm
177	Butyl alcohol, tert; (tert-Butanol)	75-65-0	150	1,300	8,000	ppm
178	<b>Chloro-1,1-difluoroethane, 1-; (HCFC-142b)</b>	<b>75-68-3</b>	<b>10,000</b>	<b>15,000</b>	<b>25,000</b>	ppm
179	Trichlorofluoromethane; (Fluorotrichloromethane; Freon 11)	75-69-4	91	1,000	10,000	ppm
180	Dichlorodifluoromethane; (Freon 12, CFC 12)	75-71-8	3,000	10,000	50,000	ppm
181	Chlorotrifluoromethane; (CFC-13)	75-72-9	3,000	33,000	2.00E+05	ppm
182	Carbon tetrafluoride; (Tetrafluoromethane)	75-73-0	92	1,000	6,000	ppm
183	Tetramethyl lead	75-74-1	0.45	4	40	mg/m <sup>3</sup>
184	Methanesulfonic acid	75-75-2	0.99	11	65	mg/m <sup>3</sup>
185	Tetramethylsilane	75-76-3	280	360	740	ppm
186	<b>Trimethylchlorosilane</b>	<b>75-77-4</b>	<b>1.8</b>	<b>22</b>	<b>100</b>	ppm
187	<b>Dimethyldichlorosilane</b>	<b>75-78-5</b>	<b>0.90</b>	<b>11</b>	<b>50</b>	ppm

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
188	<b>Methyltrichlorosilane; (Trichloromethyl silane)</b>	<b>75-79-6</b>	<b>0.60</b>	<b>7.3</b>	<b>33</b>	ppm
189	Dimethyl butane, 2,2-	75-83-2	1,000	11,000	66,000	ppm
190	<b>Methylactonitrile, 2-;</b> <b>(Acetone cyanohydrin)</b>	<b>75-86-5</b>	<b>2.0</b>	<b>7.1</b>	<b>15</b>	ppm
191	Trichloroacetaldehyde; (Chloral)	75-87-6	3.9	43	260	mg/m <sup>3</sup>
192	Trifluoroethanol, 2,2,2-; (Trifluoroethyl alcohol)	75-89-8	0.9	10	24	ppm
193	Dimethylethyl hydroperoxide, 1,1-; (tert-Butylhydroperoxide)	75-91-2	0.37	4.1	22	ppm
194	<b>Vinyl trichlorosilane</b>	<b>75-94-5</b>	<b>0.60</b>	<b>7.3</b>	<b>33</b>	ppm
195	Pinacolone; (3,3-Dimethyl-2-butanone)	75-97-8	0.45	4.9	30	ppm
196	Trimethylacetic acid; (Pivalic acid)	75-98-9	2.7	30	180	mg/m <sup>3</sup>
197	Pentachloroethane	76-01-7	130	730	1,200	mg/m <sup>3</sup>
198	Trichloroacetyl chloride	76-02-8	0.055	0.61	2.8	ppm
199	Trichloroacetic acid	76-03-9	1.5	16	99	ppm
200	Trifluoroacetic acid; (Trifluoroethanoic acid)	76-05-1	0.13	1.4	8.5	ppm
201	<b>Chloropicrin; (Trichloronitromethane)</b>	<b>76-06-2</b>	<b>0.050</b>	<b>0.15</b>	<b>1.4</b>	ppm
202	Tetrachloro-1,2-difluoroethane, 1,1,2,2-	76-12-0	150	1,600	15,000	ppm
203	Trichlorotrifluoroethane; (Freon 113; CFC113)	76-13-1	1,250	3,900	4,500	ppm
204	Dichlorotetrafluoroethane, 1,2-; (Freon 114, CFC 114)	76-14-2	3,000	10,000	50,000	ppm

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
205	Monochloropentafluoroethane; (CFC-115)	76-15-3	3,000	5,700	34,000	ppm
206	Hexafluoroethane; (Freon 116; Perfluoroethane)	76-16-4	100	1,100	6,800	ppm
207	Heptachlor	76-44-8	0.15	14	700	mg/m <sup>3</sup>
208	Bromothymol blue; (Dibromothymolsulfonphthalein)	76-59-5	30	330	2,000	mg/m <sup>3</sup>
209	Bromocresol green; (Phenol, 4,4'-(1,1-dioxido-3H-2,1-benzoxathiol-3-ylidene)bis[2,6-di	76-60-8	13	140	840	mg/m <sup>3</sup>
210	Thymol blue; (6,6'-(3H-2,1-benzoxathiol-3-ylidene)dithymol, S,S-dioxide)	76-61-9	30	330	2,000	mg/m <sup>3</sup>
211	Phenolphthalein	77-09-8	4	44	260	mg/m <sup>3</sup>
212	Hexachlorocyclopentadiene	77-47-4	0.03	0.55	1	ppm
213	Dibutyltin dilaurate; (Dibutylbis(lauroyloxy)stannane)	77-58-7	1.1	8	48	mg/m <sup>3</sup>
214	<b>Dicyclopentadiene</b>	<b>77-73-6</b>	<b>0.01</b>	<b>5</b>	<b>75</b>	ppm
215	Dimethoxypropane, 2,2-	77-76-9	5.2	57	340	ppm
216	<b>Dimethyl sulfate</b>	<b>77-78-1</b>	<b>0.024</b>	<b>0.12</b>	<b>1.6</b>	ppm
217	<b>Nerve Agent GA; (Tabun, Ethyl dimethylamido-cyanophosphate)</b>	<b>77-81-6</b>	<b>4.20E-04</b>	<b>0.0053</b>	<b>0.039</b>	ppm
218	Tris-hydroxymethylaminomethane; (THAM)	77-86-1	18	190	1,200	mg/m <sup>3</sup>
219	Acetyl triethyl citrate	77-89-4	5.2	57	1,400	mg/m <sup>3</sup>
220	Tributyl citrate	77-94-1	0.88	9.7	43	ppm
221	Triethylethanaminium hydroxide, N,N,N-; (Tetraethyl ammonium hydroxide)	77-98-5	1.2	13	79	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
222	Tetraethyl lead	78-00-2	0.3	4	40	mg/m <sup>3</sup>
223	Triethoxyvinylsilane	78-08-0	2.6	29	170	ppm
224	<b>Tetraethyl orthosilicate; (Ethyl silicate; Tetraethoxysilane)</b>	<b>78-10-4</b>	<b>25</b>	<b>100</b>	<b>300</b>	ppm
225	Pentaerythritol tetranitrate	78-11-5	5	55	330	mg/m <sup>3</sup>
226	Tripentaerythritol	78-24-0	30	330	2,000	mg/m <sup>3</sup>
227	Tri-o-tolyl phosphate; (Triorthocresyl phosphate)	78-30-8	0.3	13	40	ppm
228	Dioxathion	78-34-2	0.31	3.4	39	mg/m <sup>3</sup>
229	Diethyl ethylphosphonate	78-38-6	1	11	460	mg/m <sup>3</sup>
230	Triethyl phosphate; (TEP)	78-40-0	23	250	320	mg/m <sup>3</sup>
231	Tri(2-ethylhexyl) phosphate; (Trioctyl phosphate)	78-42-2	21	230	1,400	mg/m <sup>3</sup>
232	Dibutyl butylphosphonate	78-46-6	0.018	0.2	1.2	ppm
233	Tri-n-octylphosphine oxide; (Trioctylphosphine oxide)	78-50-2	1	11	68	mg/m <sup>3</sup>
234	Butoxyethanol phosphate, 2-	78-51-3	9	99	590	mg/m <sup>3</sup>
235	Amiton; (O,O-Diethyl-S-(2-diethylaminoethyl) thiophosphate)	78-53-5	0.0099	0.11	0.65	mg/m <sup>3</sup>
236	Isophorone	78-59-1	12	33	200	ppm
237	Diethoxydimethylsilane	78-62-6	2.8	31	180	ppm
238	Azobis(2-methylpropionitrile), 2,2'-	78-67-1	4.1	45	130	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
239	Bis(chloromethyl)oxetane, 3,3-	78-71-7	0.18	2	12	mg/m <sup>3</sup>
240	Isopentane; (Ethyl dimethyl methane; 2-Methylbutane)	78-78-4	3,000	33,000	2.00E+05	ppm
241	<b>Isoprene</b>	<b>78-79-5</b>	<b>5</b>	<b>1,000</b>	<b>4,000</b>	ppm
242	Isobutylamine	78-81-9	6	10	15	ppm
243	<b>Isobutyronitrile</b>	<b>78-82-0</b>	0.18	<b>2.0</b>	<b>6.1</b>	ppm
244	Isobutyl alcohol	78-83-1	150	1,300	8,000	ppm
245	Isobutyraldehyde	78-84-2	75	78	470	ppm
246	<b>Methacrylaldehyde</b>	<b>78-85-3</b>	<b>0.20</b>	<b>0.33</b>	<b>3.5</b>	ppm
247	Chlorobutane, 2-; (sec-Butyl chloride)	78-86-4	0.34	3.8	340	ppm
248	Dichloropropane, 1,2-; (Propylene dichloride)	78-87-5	30	220	2,000	ppm
249	Dichloropropene, 2,3-	78-88-6	0.33	3.6	21	ppm
250	Propanediamine, 1,2-	78-90-0	6.7	74	440	mg/m <sup>3</sup>
251	Butyl alcohol, sec-; (2-Butanol)	78-92-2	150	220	10,000	ppm
252	<b>Butanone, 2-; (Methyl ethyl ketone; MEK)</b>	<b>78-93-3</b>	<b>200</b>	<b>2,700</b>	<b>4,000</b>	ppm
253	<b>Methyl vinyl ketone; (3-Buten-2-one)</b>	<b>78-94-4</b>	<b>0.17</b>	<b>1.2</b>	<b>2.4</b>	ppm
254	<b>Chloroacetone</b>	<b>78-95-5</b>	0.4	<b>4.4</b>	<b>13</b>	ppm
255	Lactonitrile	78-97-7	0.24	2.6	16	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
256	Dichloropropane, 1,1-	78-99-9	2.6	29	170	ppm
257	Trichloroethane, 1,1,2-	79-00-5	30	180	500	ppm
258	<b>Trichloroethylene</b>	<b>79-01-6</b>	<b>130</b>	<b>450</b>	<b>3,800</b>	ppm
259	Propionyl chloride	79-03-8	0.05	0.55	3.3	ppm
260	<b>Chloroacetyl chloride</b>	<b>79-04-9</b>	<b>0.040</b>	<b>1.6</b>	<b>52</b>	ppm
261	Acrylamide	79-06-1	0.09	44	100	mg/m <sup>3</sup>
262	Bromoacetic acid	79-08-3	0.023	0.26	1.5	mg/m <sup>3</sup>
263	Propionic acid	79-09-4	15	28	170	ppm
264	<b>Acrylic acid</b>	<b>79-10-7</b>	<b>1.5</b>	<b>46</b>	<b>180</b>	ppm
265	<b>Chloroacetic acid; (Monochloroacetic acid)</b>	<b>79-11-8</b>	1.5	<b>6.6</b>	15	ppm
266	Glycolic acid; (Hydroxyacetic acid)	79-14-1	25	280	390	mg/m <sup>3</sup>
267	Thiosemicarbazide; (1-Amino-2-thiourea)	79-19-6	1.1	12	13	mg/m <sup>3</sup>
268	Methyl acetate	79-20-9	250	1,700	10,000	ppm
269	<b>Peracetic acid</b>	<b>79-21-0</b>	<b>0.52</b>	<b>1.6</b>	<b>15</b>	mg/m <sup>3</sup>
270	<b>Methyl chloroformate; (Methyl chlorocarbonate)</b>	<b>79-22-1</b>	0.6	<b>2.2</b>	<b>6.7</b>	ppm
271	Nitroethane	79-24-3	60	170	1,000	ppm
272	Tetrabromoethane, 1,1,2,2-; (Acetylene tetrabromide)	79-27-6	0.3	4.3	10	ppm

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
273	Isobutyric acid	79-31-2	0.23	2.6	15	ppm
274	Tetrachloroethane, 1,1,2,2-	79-34-5	3	120	150	ppm
275	<b>Dichloroacetyl chloride</b>	<b>79-36-7</b>	<b>0.040</b>	<b>1.6</b>	<b>52</b>	ppm
276	Oxalyl chlorine	79-37-8	0.77	8.5	51	ppm
277	<b>Chlorotrifluoroethylene</b>	<b>79-38-9</b>	<b>16</b>	<b>86</b>	<b>420</b>	ppm
278	Methacrylamide	79-39-0	1.3	15	91	mg/m <sup>3</sup>
279	<b>Methacrylic acid</b>	<b>79-41-4</b>	<b>6.7</b>	<b>61</b>	<b>220</b>	ppm
280	Dichloroacetic acid	79-43-6	1.5	8.9	140	ppm
281	Dimethyl carbamoyl chloride	79-44-7	0.015	1.5	9.1	ppm
282	Nitropropane, 2-	79-46-9	30	380	2,300	ppm
283	Phenaglycodol; (Ultran; 2-p-Chlorophenyl-3-methyl-2,3-butanediol)	79-93-6	2.5	27	160	mg/m <sup>3</sup>
284	Bisphenol A; (4,4'-Isopropylidenediphenol)	80-05-7	15	110	650	mg/m <sup>3</sup>
285	Diaminodiphenylsulfone; (Dapsone, 4,4'-Sulfonyldianiline)	80-08-0	2	22	78	mg/m <sup>3</sup>
286	<b>Diphenyldichlorosilane</b>	<b>80-10-4</b>	<b>0.90</b>	<b>11</b>	<b>50</b>	ppm
287	Cumene hydroperoxide; (Isopropylbenzene hydroperoxide)	80-15-9	0.15	1.6	9.7	ppm
288	Toluenesulfonic acid, methyl ester, p-	80-48-8	1	11	68	mg/m <sup>3</sup>
289	Methylactic acid ethyl ester, 2-; (Ethyl 2-hydroxyisobutyrate)	80-55-7	12	130	790	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
290	<b>Methyl methacrylate</b>	<b>80-62-6</b>	<b>17</b>	<b>120</b>	<b>570</b>	ppm
291	Methyl-2-chloroacrylate	80-63-7	0.091	1	3.6	ppm
292	Nitro-m-xylene, 2-; (1,3-Dimethyl-2-nitrobenzene)	81-20-9	7.9	86	520	mg/m <sup>3</sup>
293	Warfarin	81-81-2	1.8	20	350	mg/m <sup>3</sup>
294	Diphacinone; (Diphenadione)	82-66-6	0.082	0.9	88	mg/m <sup>3</sup>
295	Pentachloronitrobenzene	82-68-8	1.5	28	62	mg/m <sup>3</sup>
296	Acenaphthene	83-32-9	3.6	40	240	mg/m <sup>3</sup>
297	Dimethyl-3-nitrobenzene, 1,2-	83-41-0	30	330	2,000	mg/m <sup>3</sup>
298	Rotenone	83-79-4	15	420	2,500	mg/m <sup>3</sup>
299	Anthraquinone	84-65-1	12	130	790	mg/m <sup>3</sup>
300	Diethyl phthalate; (Ethyl phthalate)	84-66-2	15	300	1,800	mg/m <sup>3</sup>
301	Dibutyl phthalate	84-74-2	15	1,600	9,300	mg/m <sup>3</sup>
302	Phenanthrene	85-01-8	5.4	59	360	mg/m <sup>3</sup>
303	Memtetrahydrophthalic anhydride; (Tetrahydrophthalic anhydride)	85-43-8	16	180	1,100	mg/m <sup>3</sup>
304	Phthalic anhydride	85-44-9	18	56	10,000	mg/m <sup>3</sup>
305	Phthalic acid, benzyl butyl ester; (Benzyl butyl phthalate)	85-68-7	15	77	460	mg/m <sup>3</sup>
306	Diphenylnitrosamine	86-30-6	5.5	60	360	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
307	Azinphos methyl; (Guthion)	86-50-0	0.6	0.7	20	mg/m <sup>3</sup>
308	Amino-1,3-naphthalenedisulfonic acid, 7-	86-65-7	30	330	2,000	mg/m <sup>3</sup>
309	Fluorene, 9H-	86-73-7	6.6	72	430	mg/m <sup>3</sup>
310	Carbazole	86-74-8	0.66	7.2	43	mg/m <sup>3</sup>
311	Naphthaleneacetamide, 1-	86-86-2	5.1	56	330	mg/m <sup>3</sup>
312	Naphthylthiourea, alpha-; (ANTU)	86-88-4	0.91	10	100	mg/m <sup>3</sup>
313	Trichlorobenzene, 1,2,3-	87-61-6	15	60	360	mg/m <sup>3</sup>
314	Dichlorophenol, 2,6-	87-65-0	8.8	97	580	mg/m <sup>3</sup>
315	Pyrogalllic acid	87-66-1	0.41	4.5	20	mg/m <sup>3</sup>
316	<b>Hexachlorobutadiene</b>	<b>87-68-3</b>	<b>1</b>	<b>3</b>	<b>10</b>	ppm
317	Tartaric acid	87-69-4	1.6	17	100	mg/m <sup>3</sup>
318	Pentachlorophenol	87-86-5	1	15	150	mg/m <sup>3</sup>
319	Trichloroisocyanuric acid	87-90-1	1.2	13	80	mg/m <sup>3</sup>
320	Diethyl tartrate	87-91-2	30	330	2,000	mg/m <sup>3</sup>
321	Trimethylaniline, 2,4,6-	88-05-1	0.26	2.9	10	mg/m <sup>3</sup>
322	Trichlorophenol, 2,4,6-	88-06-2	2.5	27	160	mg/m <sup>3</sup>
323	Vinyl-2-pyrrolidinone, 1-	88-12-0	0.15	6.3	31	ppm

Compounds with unknown CASRN are issued a "z-number" for identification purposes.  
 Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
324	Chlorobenzotrifluoride, 2-	88-16-4	4.8	53	320	mg/m <sup>3</sup>
325	Trifluoro-4-nitro-m-cresol, alpha,alpha,alpha-; (4-Nitro-3-(trifluoromethyl)phenol)	88-30-2	0.42	4.7	28	mg/m <sup>3</sup>
326	Di-tert-butylhydroquinone, 2,5-	88-58-4	6.3	69	110	mg/m <sup>3</sup>
327	Nitrotoluene, o-	88-72-2	6	33	200	ppm
328	Nitroaniline, 2-; (o-Nitroaniline)	88-74-4	6.2	68	410	mg/m <sup>3</sup>
329	Nitrophenol, 2-; (o-Nitrophenol)	88-75-5	2.1	23	140	mg/m <sup>3</sup>
330	Dinoseb; (2-sec-Butyl-4,6-dinitrophenol)	88-85-7	0.41	4.5	5.4	mg/m <sup>3</sup>
331	Picric acid	88-89-1	0.3	17	100	mg/m <sup>3</sup>
332	Phthaloyl dichloride; (Phthaloyl chloride)	88-95-9	0.14	1.6	9.5	ppm
333	Phthalic acid	88-99-3	24	260	1,600	mg/m <sup>3</sup>
334	Pyromellitic acid	89-05-4	0.98	11	65	mg/m <sup>3</sup>
335	Methyl-1-phenyl-2-pyrazolin-5-one, 3-	89-25-8	11	120	690	mg/m <sup>3</sup>
336	Benzenetetracarboxylic dianhydride, 1,2,4,5-	89-32-7	6.8	74	450	mg/m <sup>3</sup>
337	Chloro-2-nitrophenol, 4-	89-64-5	12	130	790	mg/m <sup>3</sup>
338	Trichloronitrobenzene, 2,4,5-	89-69-0	2.3	25	150	mg/m <sup>3</sup>
339	Methyl-2-(1-methylethyl)phenol, 5-; (Thymol)	89-83-8	2.9	32	190	mg/m <sup>3</sup>
340	Dihydroxybenzoic acid, 2,4-	89-86-1	2.6	29	170	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
341	Salicylaldehyde	90-02-8	1.6	17	100	mg/m <sup>3</sup>
342	Anisidine, o-	90-04-0	1.5	8.3	50	mg/m <sup>3</sup>
343	Bromonaphthalene	90-11-9	2.4	27	160	mg/m <sup>3</sup>
344	Methylnaphthalene, 1-	90-12-0	20	61	360	mg/m <sup>3</sup>
345	Chloronaphthalene, 1-; (alpha-Chloronaphthalene)	90-13-1	4.6	51	310	mg/m <sup>3</sup>
346	Naphthol, 1-	90-15-3	2.2	25	450	mg/m <sup>3</sup>
347	Phenylphenol, 2-: (Biphenylol)	90-43-7	29	320	490	mg/m <sup>3</sup>
348	Hydroxyphenylacetic acid, alpha-	90-64-2	25	270	1,600	mg/m <sup>3</sup>
349	Tris(dimethylaminomethyl)phenol, 2,4,6-	90-72-2	6.5	72	430	mg/m <sup>3</sup>
350	Michler's ketone; (4,4'-Bis(dimethylamino)benzophenone)	90-94-8	30	330	2,000	mg/m <sup>3</sup>
351	<b>Toluene-2,6-diisocyanate</b>	<b>91-08-7</b>	<b>0.020</b>	<b>0.083</b>	<b>0.51</b>	ppm
352	Dimethoxybenzene, o-	91-16-7	2.7	29	180	mg/m <sup>3</sup>
353	Decahydronaphthalene, includes -cis (493-01-6) and -trans (493-02-7) isomers	91-17-8	2.4	27	31	ppm
354	Naphthalene	91-20-3	15	83	500	ppm
355	Quinoline	91-22-5	0.003	2.9	17	ppm
356	Methylnaphthalene, 2-	91-57-6	9	54	320	mg/m <sup>3</sup>
357	Chloronaphthalene, 2-; (beta-Chloronaphthalene)	91-58-7	6.2	69	410	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
358	Naphthylamine, beta-	91-59-8	2.2	24	140	mg/m <sup>3</sup>
359	Coumarin	91-64-5	0.88	9.7	58	mg/m <sup>3</sup>
360	Diethylaniline, N,N-	91-66-7	1.3	14	85	mg/m <sup>3</sup>
361	Dichlorobenzidene, 3,3'-	91-94-1	2.1	23	140	ppm
362	Dicyclohexyl; (Cyclohexylcyclohexane)	92-51-3	30	330	2,000	mg/m <sup>3</sup>
363	<b>Biphenyl: (Diphenyl)</b>	<b>92-52-4</b>	0.87	<b>9.6</b>	300	ppm
364	Aminodiphenyl, p-	92-67-1	1.5	17	99	mg/m <sup>3</sup>
365	Biphenylol, 4-	92-69-3	0.49	5.4	32	mg/m <sup>3</sup>
366	Diphenyloxazole, 2,5-	92-71-7	2.5	27	160	mg/m <sup>3</sup>
367	Benzidine	92-87-5	0.93	10	61	mg/m <sup>3</sup>
368	Nitrobiphenyl, 4-; (p-Nitrobiphenyl)	92-93-3	6.7	74	440	mg/m <sup>3</sup>
369	Terphenyl, p-	92-94-4	0.45	5	150	mg/m <sup>3</sup>
370	Naphthol-6-sulfonic acid, 6-; (Schaeffer's acid)	93-01-6	0.54	6	36	mg/m <sup>3</sup>
371	Methyl benzoate; (Benzoic acid, methyl ester)	93-58-3	1.1	12	42	ppm
372	Trichlorophenoxy)propionic acid, 2-(2,4,5-; (Silvex)	93-72-1	0.82	9	130	mg/m <sup>3</sup>
373	Trichlorophenoxyacetic acid, 2,4,5-; (2,4,5-T)	93-76-5	30	42	250	mg/m <sup>3</sup>
374	Ethyl benzoate	93-89-0	6.3	69	420	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
375	Benzoyl peroxide	94-36-0	15	1,200	7,000	mg/m <sup>3</sup>
376	Safrol; (5-(2-Propenyl)-1,3-benzodioxole)	94-59-7	5.9	64	390	mg/m <sup>3</sup>
377	Dichlorophenoxyacetic acid, 2,4-; (2,4-D)	94-75-7	30	94	500	mg/m <sup>3</sup>
378	Ethyl-1,3-hexanediol, 2-; (Ethyl hexylene glycol)	94-96-2	6.9	75	90	ppm
379	Indene	95-13-6	15	22	130	ppm
380	Benzotriazole	95-14-7	1.2	13	77	mg/m <sup>3</sup>
381	Benzothiazole	95-16-9	2.8	30	75	mg/m <sup>3</sup>
382	Dimethylglyoxime; (Diacetyldioxime)	95-45-4	0.99	11	65	mg/m <sup>3</sup>
383	Chlorotoluene, 2-; (o-Chlorotoluene)	95-49-8	75	310	1,800	ppm
384	Dichlorobenzene, o-	95-50-1	50	170	1,000	ppm
385	Toluidine, o-	95-53-4	6	8.2	100	ppm
386	Phenylenediamine, 1,2-; (o-Phenylenediamine)	95-54-5	0.3	35	210	mg/m <sup>3</sup>
387	Aminophenol, 2-; (Aminophenol, o-)	95-55-6	2.9	31	190	mg/m <sup>3</sup>
388	Chlorophenol, o-	95-57-8	2.3	25	150	mg/m <sup>3</sup>
389	<b>Trimethylbenzene, 1,2,4-; (Pseudocumene)</b>	<b>95-63-6</b>	<b>140</b>	<b>360</b>	480	ppm
390	Toluenediamine, 2,4-; (2,4-Diaminotoluene)	95-80-7	0.015	3.3	20	ppm
391	Diethyl oxalate	95-92-1	1.2	13	79	mg/m <sup>3</sup>

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 Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.



**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
392	Tetramethylbenzene, 1,2,4,5-	95-93-2	20	220	1,300	mg/m <sup>3</sup>
393	Tetrachlorobenzene, 1,2,4,5-	95-94-3	0.66	7.2	340	mg/m <sup>3</sup>
394	Trichlorophenol, 2,4,5-	95-95-4	2.5	27	160	mg/m <sup>3</sup>
395	Styrene oxide; (1,2-Epoxyethylbenzene)	96-09-3	0.33	3.6	21	ppm
396	Chlorodiethylaluminum; (Diethylaluminum chloride)	96-10-6	27	290	1,800	mg/m <sup>3</sup>
397	Dibromo-3-chloropropane, 1,2-; (DBCP)	96-12-8	0.003	2.2	4.3	ppm
398	Methylpentane, 3-	96-14-0	1,000	11,000	66,000	ppm
399	Trichloropropane, 1,2,3-	96-18-4	0.015	170	1,000	ppm
400	Pentanone, 3-; (Diethyl ketone)	96-22-0	300	830	5,000	ppm
401	Dichloro-2-propanol, 1,3-	96-23-1	0.33	3.6	5.4	ppm
402	Chloro-1,2-propanediol, 3-; (Chlorohydrin)	96-24-2	0.011	0.12	5.4	ppm
403	Butanone oxime; (Ethyl methyl ketoxime)	96-29-7	30	56	250	ppm
404	Bromo acetic acid, methyl ester	96-32-2	0.069	0.76	4.6	mg/m <sup>3</sup>
405	Methyl acrylate	96-33-3	6	170	1,000	ppm
406	Methylcyclopentane	96-37-7	14	160	940	ppm
407	Ethylenethiourea; (2-Imidazolidinethione)	96-45-7	0.085	0.94	110	mg/m <sup>3</sup>
408	Methyltetrahydrofuran, 2-	96-47-9	4	44	260	ppm

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
409	Dihydro-2(3H)-furanone; (4-Butanolide)	96-48-0	3.6	39	310	mg/m <sup>3</sup>
410	Glycol carbonate; (Ethylene carbonate)	96-49-1	30	330	2,000	mg/m <sup>3</sup>
411	Methylpyrrole, N-	96-54-8	120	1,300	7,900	mg/m <sup>3</sup>
412	<b>Agent GD; (Soman; 3,3-Dimethyl-2-butyl methylphosphonofluoridate)</b>	<b>96-64-0</b>	<b>1.80E-04</b>	<b>0.0022</b>	<b>0.017</b>	ppm
413	Bis(3-tert-butyl-4-hydroxy-6-methylphenyl) sulfide; (4,4'-Thiobis(6-tert-butyl-m-cresol))	96-69-5	3	82	460	mg/m <sup>3</sup>
414	Diisopropylaminoethanol, 2-; (N,N-Diisopropyl ethanolamine)	96-80-0	1.5	17	99	mg/m <sup>3</sup>
415	Chloro-2,4-dinitrobenzene, 1-	97-00-7	1.6	18	150	mg/m <sup>3</sup>
416	Dinitroaniline, 2,4-	97-02-9	0.86	9.4	56	mg/m <sup>3</sup>
417	Sulfosalicylic acid	97-05-2	7.4	81	490	mg/m <sup>3</sup>
418	Dichlorophene	97-23-4	4.5	50	300	mg/m <sup>3</sup>
419	Solvent Yellow 3; (2-Amino-5-azotoluene)	97-56-3	1.9	21	120	mg/m <sup>3</sup>
420	Ethyl methacrylate; (2-Methyl-2-propenoic acid, ethyl ester)	97-63-2	5.5	61	370	ppm
421	Isobutyric anhydride; (2-Methylpropionic anhydride)	97-72-3	0.19	2	12	ppm
422	Disulfiram	97-77-8	6	17	99	mg/m <sup>3</sup>
423	Tetramethyl-1,3-butanediamine, N,N,N',N'-; (Tetramethyl butanediamine)	97-84-7	1.4	16	94	mg/m <sup>3</sup>
424	Isobutyl isobutyrate	97-85-8	23	250	1,500	mg/m <sup>3</sup>
425	Methyl butylacrylate, 2-; (Butyl methacrylate)	97-88-1	19	210	1,300	mg/m <sup>3</sup>

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 Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
426	Ethylene glycol dimethacrylate	97-90-5	9.9	110	650	mg/m <sup>3</sup>
427	Triethylaluminum	97-93-8	25	280	1,700	mg/m <sup>3</sup>
428	Chloroacetaldehyde dimethyl acetal	97-97-2	12	130	790	mg/m <sup>3</sup>
429	Furfuryl alcohol	98-00-0	15	42	250	ppm
430	<b>Furancarboxaldehyde, 2-; (Furfural)</b>	<b>98-01-1</b>	<b>2</b>	<b>10</b>	<b>100</b>	ppm
431	Benzeneearsonic acid; (Phenylarsonic acid)	98-05-5	0.025	0.27	13	mg/m <sup>3</sup>
432	Butylbenzene, tert-	98-06-6	1.7	18	110	ppm
433	Benzyl trichloride; (Trichloromethylbenzene)	98-07-7	0.064	0.7	5.3	mg/m <sup>3</sup>
434	Benzotrifluoride	98-08-8	19	220	1,300	mg/m <sup>3</sup>
435	Benzenesulfonic acid chloride; (Benzenesulfonyl chloride)	98-09-9	0.77	8.4	51	mg/m <sup>3</sup>
436	<b>Trichlorophenylsilane</b>	<b>98-13-5</b>	<b>0.60</b>	<b>7.3</b>	<b>33</b>	ppm
437	Trifluoromethyl)benzenamine, 3-; (m-Aminobenzal fluoride)	98-16-8	0.4	4.4	19	mg/m <sup>3</sup>
438	Butylpyrocatechol, 4-tert-; (4-tert-Butylcatechol)	98-29-3	0.18	2	560	mg/m <sup>3</sup>
439	Butylcyclohexanone, p-tert-	98-53-3	15	170	990	mg/m <sup>3</sup>
440	Tert-butylphenol, p-; (Tert-butylphenol, 4-)	98-54-4	1.5	40	240	mg/m <sup>3</sup>
441	Toluenesulfonyl chloride, p-	98-59-9	0.45	5	30	mg/m <sup>3</sup>
442	Benzenesulfonic acid, 4-chloro	98-66-8	1.5	17	99	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
443	Hydroxybenzenesulfonic acid, 4-; (4-Hydroxyphenylsulfonic acid)	98-67-9	10	120	690	mg/m <sup>3</sup>
444	Tert-butyl benzoic acid, p-	98-73-7	6	23	140	mg/m <sup>3</sup>
445	Phenylboric acid; (Benzenboronic acid)	98-80-6	2.2	24	150	mg/m <sup>3</sup>
446	<b>Cumene; (Isopropyl benzene)</b>	<b>98-82-8</b>	<b>50</b>	<b>300</b>	<b>730</b>	ppm
447	Methylstyrene, alpha-	98-83-9	100	830	5,000	ppm
448	Acetophenone	98-86-2	30	330	2,000	ppm
449	Benzal chloride	98-87-3	0.21	2.3	14	mg/m <sup>3</sup>
450	<b>Benzoyl chloride</b>	<b>98-88-4</b>	<b>0.3</b>	<b>5</b>	<b>20</b>	ppm
451	Nicotinamide	98-92-0	5.6	62	690	mg/m <sup>3</sup>
452	Dimethylaminocyclohexane, N,N-	98-94-2	1	11	66	mg/m <sup>3</sup>
453	Nitrobenzene	98-95-3	3	20	200	ppm
454	Picolinic acid; (2-Pyridinecarboxylic acid)	98-98-6	1.2	13	78	mg/m <sup>3</sup>
455	Nitrotoluene, m-	99-08-1	6	14	200	ppm
456	Nitroaniline, 3-; (m-Nitroaniline)	99-09-2	1.6	18	110	mg/m <sup>3</sup>
457	Dibromo-4-nitrophenol, 2,6-	99-28-5	0.015	0.17	1	ppm
458	Dichloran; (2,6-Dichloro-4-nitroaniline; Resisan)	99-30-9	7.2	79	480	mg/m <sup>3</sup>
459	Trinitrobenzene, 1,3,5-	99-35-4	1.5	16	54	mg/m <sup>3</sup>

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 Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
460	Methyl-5-nitroaniline, 2-; (5-Nitro-o-toluidine; Benzenamine, 2-methyl-5-nitro-)	99-55-8	3	19	110	mg/m <sup>3</sup>
461	Diisopropylbenzene, 1,3-	99-62-7	2	23	180	mg/m <sup>3</sup>
462	Dinitrobenzene, -m; (includes -o, (528-29-0) and -p isomers (100-25-4))	99-65-0	3	33	200	mg/m <sup>3</sup>
463	Isopropyltoluene, 4-; (p-Cymene)	99-87-6	120	1,300	1,900	mg/m <sup>3</sup>
464	Hydroxybenzoic acid, 4-; (p-Salicylic acid)	99-96-7	15	110	240	mg/m <sup>3</sup>
465	Dimethyl-p-phenylenediamine, N,N-	99-98-9	0.012	0.13	9.9	mg/m <sup>3</sup>
466	Nitrotoluene, p-	99-99-0	6	33	200	ppm
467	Chloronitrobenzene, p-; (p-Nitrochlorobenzene)	100-00-5	1.9	170	1,000	mg/m <sup>3</sup>
468	Nitroaniline, p-	100-01-6	9	71	300	mg/m <sup>3</sup>
469	Nitrophenol, 4-; (p-Nitrophenol); Includes 25154-55-6 (mixed isomers)	100-02-7	0.69	7.6	46	mg/m <sup>3</sup>
470	Dimethylaminobenzaldehyde, p-	100-10-7	8.2	90	250	mg/m <sup>3</sup>
471	Benzene, 1-(chloromethyl)-4-nitro-; (p-Nitrobenzyl chloride)	100-14-1	2.5	28	360	mg/m <sup>3</sup>
472	Bis(1-methylethyl)benzene, 1,4-; (p- or 1,4-Diisopropylbenzene)	100-18-5	2.7	30	180	mg/m <sup>3</sup>
473	Terephthaloyl chloride; (Benzenedicarbonyl dichloride, 1,4-)	100-20-9	7.5	83	500	mg/m <sup>3</sup>
474	Terephthalic acid	100-21-0	30	140	840	mg/m <sup>3</sup>
475	Diethylethanolamine, N,N-; (Diethylaminoethanol)	100-37-8	6	83	500	ppm
476	Bromotoluene, A-; (Benzyl bromide)	100-39-0	0.41	4.5	27	mg/m <sup>3</sup>

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 Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
477	Vinylcyclohexene, 4-; (Cyclohexenylethylene)	100-40-3	0.3	210	340	ppm
478	<b>Ethyl benzene</b>	<b>100-41-4</b>	<b>33</b>	<b>1,100</b>	<b>1,800</b>	ppm
479	<b>Styrene</b>	<b>100-42-5</b>	<b>20</b>	<b>130</b>	<b>1,100</b>	ppm
480	<b>Benzyl chloride</b>	<b>100-44-7</b>	<b>1</b>	<b>10</b>	<b>50</b>	ppm
481	Benzylamine	100-46-9	2	22	130	mg/m <sup>3</sup>
482	<b>Benzonitrile</b>	<b>100-47-0</b>	0.56	<b>6.2</b>	<b>19</b>	ppm
483	Benzyl alcohol	100-51-6	30	52	740	ppm
484	Benzaldehyde	100-52-7	4	9.9	59	ppm
485	Phenylmagnesium bromide	100-58-3	1.2	13	79	mg/m <sup>3</sup>
486	Methylaniline, N-	100-61-8	1.5	17	100	ppm
487	Phenylhydrazine	100-63-0	0.3	6.4	295	ppm
488	Anisole; (Anisole anhydrous; Methoxybenzene)	100-66-3	1.6	18	110	mg/m <sup>3</sup>
489	Dimethyl-1,3-dioxolane-4-methanol, 2,2-	100-79-8	3.9	43	260	ppm
490	Hexamethylenetetraamine; (Methenamine)	100-97-0	55	610	3,600	mg/m <sup>3</sup>
491	Triisobutylaluminum	100-99-2	44	290	1,800	mg/m <sup>3</sup>
492	Triphenyl phosphite	101-02-0	4.8	53	320	mg/m <sup>3</sup>
493	Methylene bis(2-chloroaniline), 4,4'-; (MBOCA)	101-14-4	0.03	0.94	21	ppm

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
494	Bromophenyl phenyl ether, 4-	101-55-3	0.33	3.6	21	mg/m <sup>3</sup>
495	<b>Methylene diphenyl diisocyanate; (Diphenylmethane diisocyanate; MDI)</b>	<b>101-68-8</b>	0.45	<b>5</b>	<b>55</b>	mg/m <sup>3</sup>
496	Methylenedianiline, 4,4'-	101-77-9	0.1	3.4	20	ppm
497	Diaminodiphenyl ether, 4,4'-; (4,4'-Oxydianiline)	101-80-4	2.2	24	140	mg/m <sup>3</sup>
498	Diphenylmethane	101-81-5	6.8	74	450	mg/m <sup>3</sup>
499	Phenyl ether; (Diphenyl ether)	101-84-8	2	16	96	ppm
500	Diphenylguanidine, 1,3-	102-06-7	0.97	11	64	mg/m <sup>3</sup>
501	Trimethoxyboroxine	102-24-9	15	170	1,000	mg/m <sup>3</sup>
502	Isocyanic acid, 3,4-dichlorophenyl ester; (3,4-Dichlorophenyl isocyanate)	102-36-3	1.3	14	120	mg/m <sup>3</sup>
503	Tetramethoxypropane, 1,1,3,3-; (Malonaldehyde bis(dimethyl acetal))	102-52-3	12	130	790	mg/m <sup>3</sup>
504	Ethylenedinitrilo)tetra-2-propanol, 1,1',1'',1'''-(	102-60-3	34	370	2,200	mg/m <sup>3</sup>
505	Tripropylamine	102-69-2	0.58	6.4	38	ppm
506	Triethanolamine; (Trihydroxytriethylamine)	102-71-6	15	240	1,500	mg/m <sup>3</sup>
507	Triacetin; (Triacetyl glycerin)	102-76-1	19	210	1,200	mg/m <sup>3</sup>
508	Tri-n-butylamine	102-82-9	0.049	0.54	3.2	ppm
509	Tridodecylamine; (Alamine 304; N,N-didodecyl-1-dodecanamine)	102-87-4	12	130	790	mg/m <sup>3</sup>
510	Ethylhexyl acrylate, 2-; (Acrylic acid, 2-ethylhexyl ester)	103-11-7	15	120	150	ppm

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
511	Di-2-ethylhexyl adipate	103-23-1	17	180	1,100	mg/m <sup>3</sup>
512	Ethanediy(bis)benzene, 1,1'-(1,2-; (Bibenzyl)	103-29-7	14	150	890	mg/m <sup>3</sup>
513	Propylbenzene, n-; (Isocumene)	103-65-1	3.7	41	240	ppm
514	<b>Phenyl isocyanate</b>	<b>103-71-9</b>	8.70E-04	<b>0.0096</b>	<b>0.029</b>	ppm
515	Benzyl dimethylamine; (Dimethylbenzylamine, N,N-; BDMA)	103-83-3	0.62	6.8	41	mg/m <sup>3</sup>
516	Acetanilide	103-84-4	2	22	130	mg/m <sup>3</sup>
517	Phenylthiourea; (1-Phenyl-2-thiourea)	103-85-5	0.27	3	18	mg/m <sup>3</sup>
518	Phenylene diisocyanate, 1,4-	104-49-4	1	11	14	mg/m <sup>3</sup>
519	Butylbenzene, n-; (1-Phenylbutane)	104-51-8	3.6	40	240	ppm
520	Ethanediy(bis(oxy))bisbenzene, 1,1'-(1,2-	104-66-5	30	330	2,000	mg/m <sup>3</sup>
521	<b>Ethyl-1-hexanol, 2-</b>	<b>104-76-7</b>	<b>0.1</b>	<b>100</b>	<b>200</b>	ppm
522	Diethylaminopropylamine	104-78-9	1.7	18	110	mg/m <sup>3</sup>
523	Nitrosophenol, p-	104-91-6	1.1	12	71	mg/m <sup>3</sup>
524	Anisidine, p-	104-94-9	1.5	8.3	50	mg/m <sup>3</sup>
525	Cyclohexanedimethanol, cis and trans, 1,4-	105-08-8	9.6	110	630	mg/m <sup>3</sup>
526	Methoxybenzyl alcohol, 4-	105-13-5	2.2	25	260	mg/m <sup>3</sup>
527	Novol ketone; (5-dithylamino-2-pentanone)	105-14-6	0.62	6.9	41	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
528	Methylpentanol-1, 2-; (Amyl methyl alcohol)	105-30-6	0.087	0.96	67	ppm
529	Ethyl bromoacetate	105-36-2	0.18	1.9	12	ppm
530	Ethyl propionate	105-37-3	6.3	69	410	ppm
531	Ethyl chloroacetate	105-39-5	0.11	1.2	7.1	ppm
532	Butyl acetate, sec-	105-46-4	600	1,700	10,000	ppm
533	Diethyl malonate; (Ethyl malonate)	105-53-3	6.9	76	450	ppm
534	Diethylthiourea, N,N'-	105-55-5	0.95	10	63	mg/m <sup>3</sup>
535	Diethyl carbonate	105-58-8	12	140	810	ppm
536	Caprolactam (dust)	105-60-2	3	40	240	mg/m <sup>3</sup>
537	Diisopropyl peroxydicarbonate	105-64-6	6.4	71	420	mg/m <sup>3</sup>
538	Dimethylphenol, 2,4-; (2,4-Xylenol)	105-67-9	6.9	76	460	mg/m <sup>3</sup>
539	Dilauroyl peroxide	105-74-8	30	330	2,000	mg/m <sup>3</sup>
540	Quinhydrone	106-34-3	0.21	2.3	14	mg/m <sup>3</sup>
541	Ethyl butyl ketone; (3-Heptanone)	106-35-4	75	500	3,000	ppm
542	Bromochlorobenzene, p-	106-39-8	12	130	790	mg/m <sup>3</sup>
543	Chlorotoluene, 4-; (p-Tolyl chloride)	106-43-4	1.2	13	80	ppm
544	Thiocresol, p-; (p-Toluenethiol)	106-45-6	0.66	7.2	43	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
545	Dichlorobenzene, p-	106-46-7	30	170	1,000	ppm
546	Chloroaniline, p-	106-47-8	6.1	68	100	mg/m <sup>3</sup>
547	Chlorophenol, 4-; (p-Chlorophenol)	106-48-9	1.5	17	99	mg/m <sup>3</sup>
548	Toluidine, p-; (4-Methylbenzenamine)	106-49-0	6	8.2	30	ppm
549	Phenylenediamine, 1,4-; (p-Phenylenediamine)	106-50-3	0.3	6.8	41	mg/m <sup>3</sup>
550	Benzoquinone, p-; (Quinone)	106-51-4	0.3	11	68	ppm
551	Butanedioic acid, dimethyl ester; (Succinic acid, dimethyl ester)	106-65-0	2.5	28	170	ppm
552	Epoxyethyl)-7-oxabicyclo(4.1.0)heptane, 3-; (Vinyl cyclohexene dioxide)	106-87-6	0.3	5.9	35	ppm
553	<b>Epoxybutane, 1,2-; (1,2-Butylene oxide)</b>	<b>106-88-7</b>	<b>72</b>	<b>140</b>	<b>330</b>	ppm
554	<b>Epichlorohydrin</b>	<b>106-89-8</b>	<b>1.7</b>	<b>24</b>	<b>72</b>	ppm
555	Glycidyl acrylate; (2,3-Epoxypropyl acrylate)	106-90-1	0.081	0.89	5.4	ppm
556	<b>Ethylene dibromide; (Dibromoethane)</b>	<b>106-93-4</b>	<b>17</b>	<b>24</b>	<b>46</b>	ppm
557	Bromopropane, 1-	106-94-5	0.3	120	700	ppm
558	Allyl bromide; (3-Bromopropene)	106-95-6	0.2	12	71	ppm
559	Propargyl bromide	106-96-7	1.4	63	380	mg/m <sup>3</sup>
560	<b>Butane</b>	<b>106-97-8</b>	<b>5,500</b>	<b>17,000</b>	<b>53,000</b>	ppm
561	Butene, 1-; (Butylene)	106-98-9	750	2,900	17,000	ppm

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
562	<b>Butadiene, 1,3-</b>	<b>106-99-0</b>	<b>670</b>	<b>5,300</b>	<b>22,000</b>	ppm
563	Butene, 2-	107-01-7	750	1,100	6,600	ppm
564	<b>Acrolein</b>	<b>107-02-8</b>	<b>0.030</b>	<b>0.10</b>	<b>1.4</b>	ppm
565	Propanethiol; (n-Propylmercaptan)	107-03-9	0.045	0.5	320	ppm
566	<b>Allyl chloride</b>	<b>107-05-1</b>	<b>2.8</b>	<b>54</b>	<b>140</b>	ppm
567	<b>Ethylene dichloride; (1,2-Dichloroethane)</b>	<b>107-06-2</b>	<b>50</b>	<b>200</b>	<b>300</b>	ppm
568	<b>Ethylene chlorohydrin; (2-Chloroethanol)</b>	<b>107-07-3</b>	0.11	<b>1.2</b>	<b>3.5</b>	ppm
569	Propanamine, 1-; (Propylamine)	107-10-8	5.4	59	100	ppm
570	<b>Allylamine</b>	<b>107-11-9</b>	<b>0.42</b>	<b>3.3</b>	<b>18</b>	ppm
571	<b>Propionitrile; (Propiononitrile)</b>	<b>107-12-0</b>	0.27	<b>3.0</b>	<b>9.1</b>	ppm
572	<b>Acrylonitrile</b>	<b>107-13-1</b>	0.15	<b>1.7</b>	<b>28</b>	ppm
573	<b>Chloroacetonitrile</b>	<b>107-14-2</b>	0.45	<b>5.0</b>	<b>15</b>	ppm
574	<b>Ethylenediamine, 1,2-</b>	<b>107-15-3</b>	0.88	<b>9.7</b>	<b>20</b>	ppm
575	Formaldehyde cyanohydrin; (Hydroxyacetonitrile; Glycolonitrile)	107-16-4	0.24	2.6	11	ppm
576	<b>Allyl alcohol</b>	<b>107-18-6</b>	<b>0.09</b>	<b>1.7</b>	<b>13</b>	ppm
577	<b>Propargyl alcohol</b>	<b>107-19-7</b>	<b>2.5</b>	<b>16</b>	<b>72</b>	ppm
578	<b>Chloroacetaldehyde</b>	<b>107-20-0</b>	<b>1.3</b>	<b>2.2</b>	<b>9.9</b>	ppm

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
579	Ethylene glycol	107-21-1	30	150	900	ppm
580	Glyoxal; (Ethanedione, 1, 2-)	107-22-2	0.3	46	280	mg/m <sup>3</sup>
581	Ethyl mercury chloride; (Chloroethyl mercury)	107-27-7	0.04	0.53	2.6	mg/m <sup>3</sup>
582	<b>Chloromethyl methyl ether</b>	<b>107-30-2</b>	0.043	<b>0.47</b>	<b>2.0</b>	ppm
583	Methyl formate; (Formic acid, methyl ester)	107-31-3	100	830	5,000	ppm
584	<b>Allyltrichlorosilane</b>	<b>107-37-9</b>	<b>0.60</b>	<b>7.3</b>	<b>33</b>	ppm
585	Trimethyl-1-pentene, 2,4,4-; (Diisobutylene)	107-39-1	230	2,500	15,000	ppm
586	Hexylene glycol	107-41-5	2.3	25	150	ppm
587	<b>Agent GB; (Sarin, Isopropyl methanefluoro-phosphonate)</b>	<b>107-44-8</b>	<b>4.80E-04</b>	<b>0.0060</b>	<b>0.022</b>	ppm
588	Hexamethyldisiloxane	107-46-0	13	140	150	ppm
589	Tetraethyl pyrophosphate; (TEPP)	107-49-3	0.091	1	10	mg/m <sup>3</sup>
590	Dibutyl phosphate	107-66-4	2	21	125	ppm
591	<b>Amyltrichlorosilane; (Pentyltrichlorosilane)</b>	<b>107-72-2</b>	<b>0.60</b>	<b>7.3</b>	<b>33</b>	ppm
592	Bromo-3-methylbutane, 1-	107-82-4	6	66	390	ppm
593	Methylpentane, 2-; (Isohexane)	107-83-5	1,000	11,000	66,000	ppm
594	Pentanone, 2-; (Methyl propyl ketone)	107-87-9	150	830	5,000	ppm
595	Butanediol, 1,3-	107-88-0	120	1,300	4,500	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
596	Cyanoacetamide	107-91-5	9.6	110	630	mg/m <sup>3</sup>
597	Butyric acid; (n-Butyric acid)	107-92-6	1.4	16	110	ppm
598	Mercaptopropionic acid, 3-	107-96-0	0.29	3.2	19	mg/m <sup>3</sup>
599	Propylene glycol monomethyl ether; (Ucar Triol HG-170)	107-98-2	100	160	660	ppm
600	Dimethylaminoethanol, 2-	108-01-0	3.7	40	72	ppm
601	Nitropropane, 1-	108-03-2	75	380	2,300	ppm
602	<b>Vinyl acetate</b>	<b>108-05-4</b>	<b>6.7</b>	<b>36</b>	<b>180</b>	ppm
603	Methyl isobutyl ketone; (Hexone)	108-10-1	75	500	3,000	ppm
604	Diisopropylamine	108-18-9	15	170	1,000	ppm
605	Isopropyl ether; (Diisopropyl ether)	108-20-3	310	1,700	10,000	ppm
606	Isopropyl acetate	108-21-4	200	2,700	16,000	ppm
607	<b>Isopropyl chloroformate; (Isopropyl chlorocarbonate)</b>	<b>108-23-6</b>	0.3	<b>3.3</b>	<b>10</b>	ppm
608	<b>Acetic anhydride</b>	<b>108-24-7</b>	<b>0.5</b>	<b>15</b>	<b>100</b>	ppm
609	Succinic anhydride	108-30-5	4.5	50	300	mg/m <sup>3</sup>
610	<b>Maleic anhydride</b>	<b>108-31-6</b>	<b>0.2</b>	<b>2</b>	<b>20</b>	ppm
611	Propylene carbonate, 1,2-	108-32-7	34	370	2,200	mg/m <sup>3</sup>
612	Bromochlorobenzene, m-	108-37-2	12	130	790	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
613	Xylene, m- (includes o- (95-47-6) and p- (106-42-3) isomers)	108-38-3	130	920	2,500	ppm
614	Toluenethiol, m-	108-40-7	0.16	1.8	11	mg/m <sup>3</sup>
615	Chlorophenol, m-	108-43-0	2.1	23	140	mg/m <sup>3</sup>
616	Toluidine, m-; (3-Methylaniline)	108-44-1	6	8.2	54	ppm
617	Phenylenediamine, 1,3-; (m-Phenylenediamine)	108-45-2	0.3	21	130	mg/m <sup>3</sup>
618	Resorcinol	108-46-3	20	28	170	ppm
619	Dimethylpyridine, 2,4-; (2,4-Lutidine)	108-47-4	0.14	1.5	9	ppm
620	Lutidine, 2,6-; (2,6-Dimethylpyridine)	108-48-5	31	340	2,000	ppm
621	Dichloroisopropyl ether	108-60-1	0.15	1.6	22	ppm
622	<b>Propylene glycol monomethyl ether acetate, alpha-isomer; (1-Methoxypropyl-2-ac</b>	<b>108-65-6</b>	<b>50</b>	<b>1,000</b>	<b>5,000</b>	ppm
623	<b>Trimethylbenzene, -1,3,5; (Mesitylene)</b>	<b>108-67-8</b>	<b>140</b>	<b>360</b>	480	ppm
624	Trimethylpyridine, 2,4,6-	108-75-8	1.3	14	85	ppm
625	Cyanuric chloride	108-77-0	0.41	4.5	7.7	mg/m <sup>3</sup>
626	Melamine	108-78-1	30	340	630	mg/m <sup>3</sup>
627	Cyanuric acid; (1,3,5-Triazine-2,4,6-triol)	108-80-5	30	250	1,500	mg/m <sup>3</sup>
628	Diisobutyl ketone	108-83-8	75	330	2,000	ppm
629	Bromobenzene; (Phenyl bromide)	108-86-1	0.96	11	240	ppm

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**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
630	Methylcyclohexane	108-87-2	1,200	1,700	10,000	ppm
631	<b>Toluene</b>	<b>108-88-3</b>	<b>67</b>	<b>560</b>	<b>3,700</b>	ppm
632	<b>Chlorobenzene; (Benzene chloride)</b>	<b>108-90-7</b>	<b>10</b>	<b>150</b>	<b>400</b>	ppm
633	<b>Cyclohexylamine</b>	<b>108-91-8</b>	<b>1.8</b>	<b>8.6</b>	<b>30</b>	ppm
634	Cyclohexanol	108-93-0	150	580	3,500	ppm
635	Cyclohexanone; (Ketoexamethylene)	108-94-1	60	830	5,000	ppm
636	<b>Phenol</b>	<b>108-95-2</b>	<b>15</b>	<b>23</b>	<b>200</b>	ppm
637	<b>Phenyl mercaptan; (benzenethiol,thiophenol)</b>	<b>108-98-5</b>	0.3	<b>0.53</b>	<b>1.6</b>	ppm
638	Methyl pyridine, 3-; (3-Picoline)	108-99-6	5	49	300	ppm
639	Methylmorpholine, 4-	109-02-4	1.3	14	86	ppm
640	Methylpyridine, 2-; (2-Picoline)	109-06-8	5	7.7	46	ppm
641	Methacrylic acid, diester with triethylene glycol; (Polyester TGM3)	109-16-0	33	360	2,100	mg/m <sup>3</sup>
642	Butanoic acid, butyl ester; (n-Butyl n-butanoate)	109-21-7	2.3	26	150	ppm
643	Valeric acid; (n-Pentanoic acid)	109-52-4	2.2	24	140	mg/m <sup>3</sup>
644	Dimethyl-1,3-propanediamine, N,N-; (1-Amino-3-dimethylaminopropane)	109-55-7	1.2	13	89	ppm
645	Propyl acetate, n-	109-60-4	250	1,300	8,000	ppm
646	<b>Propyl chloroformate; (Propyl chlorocarbonate)</b>	<b>109-61-5</b>	0.34	<b>3.7</b>	<b>11</b>	ppm

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 Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
647	Boron trifluoride etherate	109-63-7	2.5	29	88	mg/m <sup>3</sup>
648	Dibromopropane, 1,3-	109-64-8	3.1	34	100	mg/m <sup>3</sup>
649	Butyl bromide, n-; (1-Bromobutane)	109-65-9	4.4	49	290	ppm
650	Pentane, n-	109-66-0	3,000	33,000	2.00E+05	ppm
651	Pentene, 1-	109-67-1	120	1,300	7,700	ppm
652	Chlorobutane, 1-; (Butyl chloride)	109-69-3	4.1	45	340	ppm
653	Butyl lithium	109-72-8	30	330	2,000	mg/m <sup>3</sup>
654	Butylamine, n-	109-73-9	6	50	300	ppm
655	Butanenitrile; (Butyronitrile)	109-74-0	0.76	8.3	50	ppm
656	Propanediamine, 1,3-	109-76-2	0.93	10	61	mg/m <sup>3</sup>
657	<b>Propanedinitrile; (Malononitrile)</b>	<b>109-77-3</b>	0.07	<b>0.77</b>	<b>2.3</b>	ppm
658	Butanethiol; (n-Butyl mercaptan)	109-79-5	4.5	50	2,500	ppm
659	Methylamino)ethanol, 2-(	109-83-1	2.3	25	150	ppm
660	Methoxyethylamine, 2-	109-85-3	0.43	4.7	28	ppm
661	Ethylene glycol monomethyl ether; (2-Methoxyethanol; EGME; Methyl Cellosolve(R))	109-86-4	0.3	14	2,000	ppm
662	Methylal; (Dimethoxymethane)	109-87-5	230	2,500	15,000	ppm
663	Diethylamine	109-89-7	15	330	2,000	ppm

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
664	<b>Ethyl isocyanate</b>	<b>109-90-0</b>	0.0031	<b>0.034</b>	<b>0.10</b>	ppm
665	Vinyl ethyl ether; (Ethoxy ethene)	109-92-2	10	110	690	ppm
666	Ethyl formate	109-94-4	100	1,300	8,000	ppm
667	Ethyl nitrite	109-95-5	0.11	1.2	7.1	ppm
668	Pyrrrole; (Imidole)	109-97-7	0.12	1.3	7.7	ppm
669	<b>Tetrahydrofuran</b>	<b>109-99-9</b>	<b>100</b>	<b>500</b>	<b>5,000</b>	ppm
670	<b>Furan</b>	<b>110-00-9</b>	0.62	<b>6.8</b>	<b>19</b>	ppm
671	Dibutyl peroxide, tert-	110-05-4	7.3	81	180	ppm
672	Methyl-2-hexanone, 5-; (Methyl isoamyl ketone)	110-12-3	50	69	190	ppm
673	Succinic acid	110-15-6	6.8	75	450	mg/m <sup>3</sup>
674	Maleic acid	110-16-7	2.1	23	140	mg/m <sup>3</sup>
675	Tetramethyl ethylene diamine	110-18-9	3.2	35	58	ppm
676	Isobutyl acetate	110-19-0	450	1,300	7,500	ppm
677	Diacetyl peroxide; (Acetyl peroxide)	110-22-5	1.2	13	79	mg/m <sup>3</sup>
678	Methylenebisacrylamide, N,N'-	110-26-9	0.64	7.1	77	mg/m <sup>3</sup>
679	Myristic acid, isopropyl ester; (Tetradecanoic acid, isopropyl; Isopropyl myristate)	110-27-0	81	900	5,400	mg/m <sup>3</sup>
680	Myristic acid, butyl ester; (Tetradecanoic acid, butyl ester)	110-36-1	2.1	23	140	ppm

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
681	Methyl n-amyl ketone	110-43-0	150	670	4,000	ppm
682	Isoamyl nitrite; (Isopentyl nitrite)	110-46-3	0.48	5.3	32	ppm
683	Ethylene glycol monomethyl ether acetate; (EGMEA; 2-Methoxyethyl acetate)	110-49-6	0.3	670	4,000	ppm
684	<b>Hexane</b>	<b>110-54-3</b>	260	<b>2,900</b>	<b>8,600</b>	ppm
685	Trans-1,4-dichlorobutene; (2-Butylene dichloride)	110-57-6	0.078	0.86	3.8	ppm
686	Amylamine, n-; (1-Pentylamine)	110-58-7	0.3	3.3	20	mg/m <sup>3</sup>
687	Pentanenitrile; (Valeronitrile)	110-59-8	0.092	1	6.1	ppm
688	Butanediol, 1,4-; (1,4-Tetramethylene glycol)	110-63-4	4.7	52	640	mg/m <sup>3</sup>
689	Dihydroxy-2-butene, 1,4-; (2-Butene-1,4-diol)	110-64-5	1	11	69	ppm
690	Butyne-1,4-diol, 2-; (1,4-Butynediol)	110-65-6	0.3	5.1	31	mg/m <sup>3</sup>
691	Methylbutylamine, N-	110-68-9	1.3	14	86	ppm
692	Dimethoxyethane, 1,2-	110-71-4	13	140	840	ppm
693	Chloroethyl vinyl ether, 2-; (Ethene, 2-chloroethoxy-)	110-75-8	0.16	1.8	11	ppm
694	Ethoxyethanol, 2-	110-80-5	15	1,000	6,000	ppm
695	Cyclohexane	110-82-7	300	1,700	10,000	ppm
696	Cyclohexene	110-83-8	900	1,700	10,000	ppm
697	Piperazine	110-85-0	0.09	8.9	54	ppm

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
698	Pyridine	110-86-1	3	19	3,600	ppm
699	Dihydro-2H-pyran, 3,4-	110-87-2	3.5	38	230	ppm
700	<b>Piperidine</b>	<b>110-89-4</b>	<b>6.6</b>	<b>33</b>	<b>110</b>	ppm
701	Morpholine	110-91-8	30	1,300	8,000	ppm
702	Diisobutylamine	110-96-3	0.15	1.6	9.7	ppm
703	Oxydiacetic acid; (Oxodiacetic acid)	110-99-6	1.5	17	99	mg/m <sup>3</sup>
704	Hexamethyltetracosane, 2,6,10,15,19,23-; (Squalane)	111-01-3	0.69	7.6	46	ppm
705	Squalene; (2,6,10,15,19,23-Hexamethyl-2,6,10,14,18,22-tetracosahexene, (all-E)-)	111-02-4	8.2	90	540	mg/m <sup>3</sup>
706	Octanone, 2-	111-13-7	9.3	100	610	mg/m <sup>3</sup>
707	Heptanoic acid	111-14-8	3.9	43	260	ppm
708	Ethoxyethylacetate, 2-	111-15-9	15	420	2,500	ppm
709	Bromohexane; (n-Hexyl bromide)	111-25-1	17	190	1,100	ppm
710	Hexanol, n-; (n-Hexyl alcohol)	111-27-3	10	110	580	ppm
711	Pentanediol, 1,5-	111-29-5	6	66	400	mg/m <sup>3</sup>
712	<b>Gluteraldehyde</b>	<b>111-30-8</b>	<b>0.2</b>	<b>1</b>	<b>5</b>	ppm
713	Hexanethiol, 1-; (N-Hexylmercaptan)	111-31-9	0.045	0.5	48	ppm
714	<b>Butyl isocyanate, n-</b>	<b>111-36-4</b>	<b>0.01</b>	<b>0.083</b>	<b>0.25</b>	ppm

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
715	Diethylenetriamine	111-40-0	3	8.5	51	ppm
716	Aminoethylethanolamine	111-41-1	9	99	590	mg/m <sup>3</sup>
717	Diethanolamine	111-42-2	3	28	130	mg/m <sup>3</sup>
718	Dichloroethyl ether; (1,1'-Oxybis(2-chloro)ethane; Bis(2-chloroethyl)ether)	111-44-4	10	25	250	ppm
719	Diethylene glycol	111-46-6	6.9	140	860	ppm
720	Thiodiglycol	111-48-8	20	220	1,300	mg/m <sup>3</sup>
721	Hexamethyleneimine	111-49-9	5.7	63	380	mg/m <sup>3</sup>
722	Ethylene glycol diacetate	111-55-7	21	230	1,400	mg/m <sup>3</sup>
723	Caprylyl chloride; (Octanoyl chloride)	111-64-8	30	330	2,000	mg/m <sup>3</sup>
724	Octane, n-	111-65-9	230	385	5,000	ppm
725	<b>Octene, 1-</b>	<b>111-66-0</b>	<b>40</b>	<b>800</b>	<b>2,000</b>	ppm
726	Adiponitrile	111-69-3	0.35	3.8	8.1	ppm
727	Heptanol, 1-; (Heptyl alcohol)	111-70-6	10	120	640	mg/m <sup>3</sup>
728	Butoxyethanol, 2-; (Glycol ether EB)	111-76-2	60	120	700	ppm
729	Methoxyethoxyethanol, 2-(2-; (Diethylene glycol monomethyl ether)	111-77-3	3.4	37	220	ppm
730	Cyclooctadiene, 1,5-	111-78-4	1.8	19	120	ppm
731	Bromooctane , 1-; (Octyl bromide)	111-83-1	1.9	21	130	ppm

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
732	Nonane; (Shellsol 140)	111-84-2	600	830	5,000	ppm
733	Octanamine, 1-	111-86-4	0.2	2.2	13	mg/m <sup>3</sup>
734	<b>Octyl alcohol; (n-Octanol)</b>	<b>111-87-5</b>	<b>5</b>	<b>20</b>	<b>150</b>	ppm
735	Octanethiol, 1-	111-88-6	0.045	0.5	66	ppm
736	Ethoxyethoxy)ethanol, 2-(2-; (Carbitol cellosolve; Diethylene glycol monoethyl ether)	111-90-0	75	100	450	ppm
737	Dichloromethoxy ethane; (bis(2-Chloroethoxy)methane)	111-91-1	0.04	0.44	2.7	ppm
738	Di-n-butylamine	111-92-2	0.45	5	21	ppm
739	Diethylene glycol dimethyl ether; (Bis(2-methoxy ethyl)ether)	111-96-6	15	91	190	ppm
740	Hexadecyltrimethylammonium chloride	112-02-7	1.1	12	70	mg/m <sup>3</sup>
741	<b>Octadecyltrichlorosilane</b>	<b>112-04-9</b>	<b>0.60</b>	<b>7.3</b>	<b>33</b>	ppm
742	Nonanoic acid	112-05-0	13	140	840	mg/m <sup>3</sup>
743	Butoxyethanol acetate, 2-; (Ethylene glycol monobutyl ether acetate)	112-07-2	15	35	210	ppm
744	Undecanone, 2-; (Methyl nonyl ketone)	112-12-9	0.91	10	60	ppm
745	Diglycol monoethyl ether acetate; (Carbitol acetate)	112-15-2	16	170	1,000	mg/m <sup>3</sup>
746	Triethylenetetramine	112-24-3	3	14	83	ppm
747	Bis(2-chloroethoxy)ethane, 1,2-; (Triglycol dichloride)	112-26-5	0.75	8.3	50	mg/m <sup>3</sup>
748	Triethylene glycol	112-27-6	130	1,400	4,400	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
749	Bromodecane, 1-	112-29-8	0.25	2.7	16	ppm
750	Decyl alcohol; (1-Decanol)	112-30-1	1.8	19	140	mg/m <sup>3</sup>
751	Decanal	112-31-2	1.8	19	120	ppm
752	Butoxyethoxy)ethanol, 2-(2-; (Diethylene glycol monobutyl ether)	112-34-5	30	33	200	ppm
753	Triethylene glycol monomethyl ether	112-35-6	34	370	2,200	mg/m <sup>3</sup>
754	Bis(2-ethoxyethyl) ether; (Diethyl carbitol)	112-36-7	15	160	980	mg/m <sup>3</sup>
755	Dodecane	112-40-3	1.7	18	110	ppm
756	Tetraoxadodecane, 2,5,8,11-	112-49-2	1.6	18	110	ppm
757	Dodecyl alcohol	112-53-8	12	140	820	mg/m <sup>3</sup>
758	Dodecanethiol, 1-; (Dodecyl mercaptan; Lauryl mercaptan)	112-55-0	0.3	0.5	3	ppm
759	Butoxyethoxy)ethyl thiocyanate, 2-(2-	112-56-1	0.19	2.1	12	mg/m <sup>3</sup>
760	Tetraethylenepentamine	112-57-2	15	130	790	mg/m <sup>3</sup>
761	Diethylene glycol hexyl ether; (n-Hexyl carbitol)	112-59-4	3.7	41	480	mg/m <sup>3</sup>
762	Tetraethylene glycol	112-60-7	87	960	5,700	mg/m <sup>3</sup>
763	Bis(2-butoxyethyl) ether; (Dibutyl carbitol; Diethylene glycol dibutyl ether)	112-73-2	2.5	28	87	ppm
764	Octadecenoic acid, 9-; (Oleic acid)	112-80-1	220	2,400	15,000	mg/m <sup>3</sup>
765	Octadecanol, 1-	112-92-5	5.4	60	360	ppm

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
766	Sodium pyruvate; (Pyruvic acid, sodium salt)	113-24-6	30	330	2,000	mg/m <sup>3</sup>
767	Propoxur (Baygon)	114-26-1	1.5	6.7	40	mg/m <sup>3</sup>
768	Propylene; (1-Propene)	115-07-1	1,500	2,800	17,000	ppm
769	Methyl ether; (Dimethyl ether)	115-10-6	3,000	3,800	7,200	ppm
770	Methylpropene, 2-; (Isobutene)	115-11-7	750	2,500	11,000	ppm
771	Trichloroethanol, 2,2,2-	115-20-8	6.1	68	120	mg/m <sup>3</sup>
772	<b>Ethyl trichlorosilane; (trichloroethylsilane)</b>	<b>115-21-9</b>	<b>0.60</b>	<b>7.3</b>	<b>33</b>	ppm
773	Octafluorocyclobutane; (Cyclooctafluorobutane; Freon C-318)	115-25-3	400	4,400	27,000	ppm
774	Dimefox; (bis(Dimethylamido)fluorophosphate)	115-26-4	0.091	1	4.1	mg/m <sup>3</sup>
775	Endosulfan	115-29-7	0.3	0.8	180	mg/m <sup>3</sup>
776	Bromophenol blue; (Phenol, 4,4'-(3H-2,1-benzoxathiol-3-ylidene)bis(2,6-dibromo-, S,S-)	115-39-9	30	330	2,000	mg/m <sup>3</sup>
777	Bromocresol purple; (Phenol, 4,4'-(1,1-dioxido-3H-2,1-benzoxathiol-3-ylidene)bis[2-bromo-	115-40-2	10	110	660	mg/m <sup>3</sup>
778	Pentaerythritol	115-77-5	30	90	540	mg/m <sup>3</sup>
779	Tributyl(2,4-dichlorobenzyl) phosphonium chloride	115-78-6	0.53	5.9	35	mg/m <sup>3</sup>
780	Triphenyl phosphate	115-86-6	9	360	2,100	mg/m <sup>3</sup>
781	Fensulfothion	115-90-2	0.18	2	3.1	mg/m <sup>3</sup>
782	Tris(2-chloroethyl) phosphate; (2-Chloroethanol phosphate)	115-96-8	3.7	41	240	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
783	Aldicarb; (Carbanolate; Methyl-2-(methylthio)propionaldehyde-O-(methylcarbamoyl)oxir	116-06-3	0.027	0.3	1.8	mg/m <sup>3</sup>
784	Acetyl carbinol; (Acetol (1); 1-Hydroxy-2-propanone)	116-09-6	6.6	73	440	mg/m <sup>3</sup>
785	<b>Tetrafluoroethylene</b>	<b>116-14-3</b>	<b>22</b>	<b>55</b>	<b>330</b>	ppm
786	<b>Hexafluoropropylene; (Hexafluoropropene)</b>	<b>116-15-4</b>	<b>40</b>	<b>91</b>	<b>480</b>	ppm
787	Hexachloroacetone	116-16-5	0.22	2.4	29	mg/m <sup>3</sup>
788	Dihydroxyanthraquinone, 1,8-; (Dantron)	117-10-2	6.7	73	440	mg/m <sup>3</sup>
789	Aminoanthraquinone, 2-	117-79-3	9	99	590	mg/m <sup>3</sup>
790	Di-sec-octylphthalate	117-81-7	10	1,000	6,100	mg/m <sup>3</sup>
791	Diocetyl phthalate, n-	117-84-0	41	450	11,000	mg/m <sup>3</sup>
792	Hexachlorobenzene	118-74-1	0.006	14	91	mg/m <sup>3</sup>
793	Anthranilic acid	118-92-3	16	180	1,100	mg/m <sup>3</sup>
794	Trinitrotoluene, 2,4,6-	118-96-7	0.3	17	1,000	mg/m <sup>3</sup>
795	Methyl salicylate	119-36-8	2.3	25	150	ppm
796	Isopropylmethylpyrazolyl dimethylcarbamate; (Isolan)	119-38-0	0.51	5.6	34	mg/m <sup>3</sup>
797	Benzophenone	119-61-9	1.5	90	310	mg/m <sup>3</sup>
798	Tetrahydronaphthalene, 1,2,3,4-; (Tetralin)	119-64-2	1.6	17	100	ppm
799	Nitrodiphenylamine, 2-	119-75-5	12	130	790	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
800	Dimethoxybenzidine 3,3'-; (o-Dianisidine)	119-90-4	20	220	380	mg/m <sup>3</sup>
801	Dimethylbenzidine 3,3'-; (o-Tolidine)	119-93-7	0.0018	0.02	36	mg/m <sup>3</sup>
802	Anthracene	120-12-7	48	530	3,200	mg/m <sup>3</sup>
803	Veratraldehyde	120-14-9	6	66	400	mg/m <sup>3</sup>
804	Bis(2-hydroxyethyl)dodecanamide, N,N-	120-40-1	0.12	1.4	46	ppm
805	Ethyl-4-hydroxybenzoate; (p-Hydroxybenzoic acid ethyl ester); Ethylparaben	120-47-8	31	340	2,100	mg/m <sup>3</sup>
806	Benzyl benzoate	120-51-4	5.7	63	380	mg/m <sup>3</sup>
807	Catechol	120-80-9	15	96	570	ppm
808	Trichlorobenzene, 1,2,4-	120-82-1	0.45	5	20	ppm
809	<b>Dichlorophenol, 2,4-</b>	<b>120-83-2</b>	<b>0.2</b>	<b>2</b>	<b>20</b>	ppm
810	Cyclopentanone	120-92-3	0.87	9.5	57	ppm
811	Methylpyrrolidine; (Methylpyrrolidine, 1-)	120-94-5	0.58	6.4	39	mg/m <sup>3</sup>
812	Dinitrotoluene, 2,4-	121-14-2	0.6	12	200	mg/m <sup>3</sup>
813	Pyrethrin 1; (Cyclopropaneacrylic acid, 2,2-dimethyl-3-(2-methylpropenyl)-, ester with 4-	121-21-1	15	25	150	mg/m <sup>3</sup>
814	Trimethyl borate	121-43-7	4.3	48	290	ppm
815	Triethylamine	121-44-8	1	170	1,000	ppm
816	<b>Trimethyl phosphite</b>	<b>121-45-9</b>	<b>6.1</b>	<b>61</b>	<b>310</b>	ppm

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
817	Sulfanilic acid	121-57-3	37	410	2,400	mg/m <sup>3</sup>
818	Dimethylaniline, N,N-	121-69-7	10	330	2,000	ppm
819	Nitrochlorobenzene, m-; (1-Chloro-3-nitrobenzene; m-Chloronitrobenzene)	121-73-3	0.9	9.9	59	mg/m <sup>3</sup>
820	<b>Malathion</b>	<b>121-75-5</b>	<b>15</b>	<b>120</b>	<b>390</b>	mg/m <sup>3</sup>
821	Cyclotrimethylenetrinitramine; (RDX or Cyclonite)	121-82-4	3	26	160	mg/m <sup>3</sup>
822	Isophthalic acid; (Phthalic acid, m isomer)	121-91-5	30	340	2,100	mg/m <sup>3</sup>
823	Benzyltrimethylammonium chloride; (Dimethyloctadecylbenzylammonium chloride)	122-19-0	3.8	41	250	mg/m <sup>3</sup>
824	Diphenylamine	122-39-4	30	180	220	mg/m <sup>3</sup>
825	Triethyl phosphite	122-52-1	1.2	14	82	ppm
826	Diethyl sebacate; (Bis(2-ethylhexyl) sebacate)	122-62-3	5.4	59	360	mg/m <sup>3</sup>
827	Diphenylhydrazine, 1,2-	122-66-7	120	1,300	7,900	mg/m <sup>3</sup>
828	Phenoxyethanol, 2-; (Phenyl cellosolve)	122-99-6	1.5	16	97	ppm
829	Hexadecylpyridinium chloride, 1-; (Cepacol chloride)	123-03-5	0.06	0.66	4	mg/m <sup>3</sup>
830	Methoxybenzaldehyde; (p-Anisaldehyde)	123-11-5	21	230	300	mg/m <sup>3</sup>
831	Dipropyl ketone; (4-Heptanone)	123-19-3	150	1,700	9,900	ppm
832	Butanedioic acid, diethyl ester; (Succinic acid, diethyl ester)	123-25-1	3.6	40	240	ppm
833	Hydroquinone	123-31-9	3	20	120	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
834	Maleic hydrazide; (3,6-Pyridazinedione, 1,2-dihydro-)	123-33-1	11	130	750	mg/m <sup>3</sup>
835	<b>Propionaldehyde</b>	<b>123-38-6</b>	<b>45</b>	<b>260</b>	<b>840</b>	ppm
836	Methylformamide, N-	123-39-7	5.1	56	220	ppm
837	Hydroxy-4-methyl-2-pentanone, 4-; (Diacetone alcohol)	123-42-2	150	350	2,100	ppm
838	Isoamyl alcohol (primary); (3-Methyl-1-butanol); includes Isoamyl alcohol (584-02-1), 2-	123-51-3	125	1,700	10,000	ppm
839	Pentanedione, 2,4-; (Acetylacetone)	123-54-6	75	110	200	ppm
840	Propionic anhydride	123-62-6	7.1	78	470	mg/m <sup>3</sup>
841	Paraldehyde	123-63-7	14	150	930	mg/m <sup>3</sup>
842	Butyraldehyde	123-72-8	75	430	830	ppm
843	<b>Crotonaldehyde, trans-</b>	<b>123-73-9</b>	<b>0.19</b>	<b>4.4</b>	<b>14</b>	ppm
844	Pyrrolidine	123-75-1	0.69	7.6	45	mg/m <sup>3</sup>
845	Azodicarbamide; (Azodicarbonamide)	123-77-3	2.6	29	170	mg/m <sup>3</sup>
846	<b>Butyl acetate, n-</b>	<b>123-86-4</b>	<b>5</b>	<b>200</b>	<b>3,000</b>	ppm
847	<b>Dioxane, 1,4-; (1,4-Diethyleneoxide)</b>	<b>123-91-1</b>	<b>17</b>	<b>320</b>	<b>760</b>	ppm
848	Isoamyl acetate; (Isopentyl acetate)	123-92-2	100	500	3,000	ppm
849	Octanol, 2-	123-96-6	9.6	110	630	mg/m <sup>3</sup>
850	Octanoic acid; (Caprylic acid)	124-07-2	30	330	2,000	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
851	Nonene, 1-	124-11-8	40	800	2,000	ppm
852	Octanenitrile	124-12-9	0.57	6.2	37	ppm
853	Octanal, 1-; (Octanal; Octanaldehyde)	124-13-0	17	190	1,100	mg/m <sup>3</sup>
854	Decane	124-18-5	6.6	73	440	ppm
855	Nonanal	124-19-6	0.86	9.5	410	mg/m <sup>3</sup>
856	<b>Dimethylamine</b>	<b>124-40-3</b>	<b>10</b>	<b>66</b>	<b>250</b>	ppm
857	Sodium methylate	124-41-4	6.1	67	400	mg/m <sup>3</sup>
858	Urea peroxide; (Urea hydrogen peroxide)	124-43-6	1.2	13	79	mg/m <sup>3</sup>
859	Dibromochloromethane; (Chlorodibromomethane)	124-48-1	1.1	12	73	mg/m <sup>3</sup>
860	<b>Methanesulfonyl chloride</b>	<b>124-63-0</b>	0.019	<b>0.21</b>	<b>0.62</b>	ppm
861	Sodium cacodylate; (Sodium dimethylarsinate)	124-65-2	3.2	86	510	mg/m <sup>3</sup>
862	Isobutanol-2-amine	124-68-5	17	190	570	mg/m <sup>3</sup>
863	<b>Methylvinylchlorosilane; (Dichloromethylvinylsilane)</b>	<b>124-70-9</b>	<b>0.90</b>	<b>11</b>	<b>50</b>	ppm
864	Dibromotetrafluoroethane; (Halon 2402)	124-73-2	43	480	2,900	ppm
865	Picrotoxin; (Cocculin; PTX)	124-87-8	0.024	0.27	1.6	mg/m <sup>3</sup>
866	Bromo-1-chloro-5,5-dimethylhydantoin, 3-; (Bromo-1-chloro-5,5-dimethyl-2,4-imidazolid	126-06-7	1.3	14	83	mg/m <sup>3</sup>
867	Bisbutylenetetrahydrofurfural; (2,3,4,5-Bis(2-butylene)tetrahydro-2-furaldehyde)	126-15-8	7.5	83	500	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
868	Propanediol, 2,2-dimethyl-1,3-	126-30-7	29	320	1,900	ppm
869	Tetramethylene sulfone; (Sulfolane; Tetrahydrothiophene-1,1-dioxide)	126-33-0	4.1	45	400	mg/m <sup>3</sup>
870	Dipentaerythritol; (Dipentek)	126-58-9	30	330	2,000	mg/m <sup>3</sup>
871	Triethylphosphorothioate; (Tepto)	126-68-1	0.027	0.3	1.8	ppm
872	Tributyl phosphate	126-73-8	1.4	8.3	125	ppm
873	Tetramethyl-5-decyne-4,7-diol, 2,4,7,9-	126-86-3	30	330	2,000	mg/m <sup>3</sup>
874	<b>Methacrylonitrile; (Methylacrylonitrile)</b>	<b>126-98-7</b>	0.091	<b>1.0</b>	<b>3.1</b>	ppm
875	Chloroprene; (beta-Chloroprene; Neoprene)	126-99-8	30	67	400	ppm
876	Potassium acetate	127-08-2	9.8	110	640	mg/m <sup>3</sup>
877	Sodium acetate	127-09-3	11	120	700	mg/m <sup>3</sup>
878	<b>Perchloroethylene; (Tetrachloroethylene)</b>	<b>127-18-4</b>	<b>35</b>	<b>230</b>	<b>1,200</b>	ppm
879	Dimethylacetamide, N,N-	127-19-5	30	67	400	ppm
880	Chloro-p-toluenesulfonamide sodium salt, N-; (Chloramine T)	127-65-1	2.8	31	190	mg/m <sup>3</sup>
881	Nitrobenzenesulfonic acid, sodium salt, 3-	127-68-4	33	360	2,200	mg/m <sup>3</sup>
882	Zinc phenolsulfonate; (Zinc p-hydroxybenzenesulfonate)	127-82-2	5.4	59	360	mg/m <sup>3</sup>
883	Bromosuccinimide, N-	128-08-5	1.1	12	73	mg/m <sup>3</sup>
884	Pyrene	129-00-0	0.15	1.7	110	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
885	Warfarin sodium	129-06-6	0.82	9	83	mg/m <sup>3</sup>
886	Disodium 3,6-endoxohexahydrophthalate	129-67-9	0.15	1.7	10	mg/m <sup>3</sup>
887	Naphthoquinone, 1,4-	130-15-4	0.57	6.3	38	mg/m <sup>3</sup>
888	Alizarine Red S, Monohydrate; (Sodium alizarin-3-sulfonate)	130-22-3	0.23	2.5	15	mg/m <sup>3</sup>
889	Dimethylphthalate	131-11-3	15	1,600	9,300	mg/m <sup>3</sup>
890	Diallyl phthalate	131-17-9	15	24	140	mg/m <sup>3</sup>
891	Sodium pentachlorophenate	131-52-2	0.22	2.4	8.4	mg/m <sup>3</sup>
892	Ammonium picrate	131-74-8	30	330	2,000	mg/m <sup>3</sup>
893	Biphenylol, sodium salt, 2-	132-27-4	5	54	330	mg/m <sup>3</sup>
894	Dibenzofuran	132-64-9	30	330	2,000	mg/m <sup>3</sup>
895	Captan	133-06-2	15	26	160	mg/m <sup>3</sup>
896	Chloramben; (Amiben; 3-Amino-2,5-dichlorobenzoic acid)	133-90-4	11	120	690	mg/m <sup>3</sup>
897	Hydroxyquinoline sulfate, 8-	134-31-6	3.6	40	240	mg/m <sup>3</sup>
898	Naphthalenamine, 1-; (1-Naphthylamine)	134-32-7	2	22	130	mg/m <sup>3</sup>
899	Naphthol, 2-	135-19-3	5.9	65	390	mg/m <sup>3</sup>
900	Cupferron; (Ammonium-N-nitrosophenylhydroxylamine)	135-20-6	0.6	6.6	39	mg/m <sup>3</sup>
901	Butylbenzene, sec-; (2-Phenylbutane)	135-98-8	1.2	13	81	ppm

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
902	Methyl 2-cyanoacrylate; (Permabond 910 adhesive)	137-05-3	0.6	0.85	5.1	ppm
903	Thiram; (Tetramethylthioperoxydicarbonic diamide)	137-26-8	0.15	250	1,500	mg/m <sup>3</sup>
904	Propionic acid, sodium salt	137-40-6	15	170	1,000	mg/m <sup>3</sup>
905	Nitilotriacetic acid; (Aminotriacetic acid)	139-13-9	4.4	49	290	mg/m <sup>3</sup>
906	Ethylenediaminetetraacetic acid, disodium salt	139-33-3	11	120	730	mg/m <sup>3</sup>
907	Cerium oxalate	139-42-4	30	330	2,000	mg/m <sup>3</sup>
908	Trisodium N-hydroxyethylethylenediaminetriacetate; (Trisodium N-(2-hydroxyethyl)ethyl	139-89-9	30	330	2,000	mg/m <sup>3</sup>
909	Benzyl acetate	140-11-4	30	330	2,000	ppm
910	Benzyl cyanide; (Phenylacetonitrile)	140-29-4	0.39	4.3	15	mg/m <sup>3</sup>
911	Aminoethylpiperazine, N-	140-31-8	6.4	71	420	mg/m <sup>3</sup>
912	Methyl-5-vinylpyridine, 2-	140-76-1	0.17	1.9	6.6	mg/m <sup>3</sup>
913	Dinitrosopiperazine; (Piperazine, 1,4-dinitroso-)	140-79-4	0.48	5.3	32	mg/m <sup>3</sup>
914	<b>Ethyl acrylate</b>	<b>140-88-5</b>	<b>8.3</b>	<b>36</b>	<b>240</b>	ppm
915	<b>Butyl acrylate, n-</b>	<b>141-32-2</b>	<b>8.3</b>	<b>130</b>	<b>480</b>	ppm
916	Ethanolamine	141-43-5	6	170	1,000	ppm
917	Sodium ethoxide	141-52-6	1.2	13	79	mg/m <sup>3</sup>
918	Sodium formate	141-53-7	0.45	4.9	30	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
919	<b>Propyltrichlorosilane</b>	<b>141-57-1</b>	<b>0.60</b>	<b>7.3</b>	<b>33</b>	ppm
920	<b>Octyl mercaptan, t-</b>	<b>141-59-3</b>	0.055	<b>0.60</b>	<b>1.8</b>	ppm
921	Dicrotophos	141-66-2	0.15	0.9	17	mg/m <sup>3</sup>
922	Ethyl acetate	141-78-6	1,200	1,700	10,000	ppm
923	Methyl-3-penten-2-one, 4-; (Mesityl oxide)	141-79-7	25	830	5,000	ppm
924	Malonic acid; (Carboxyacetic acid)	141-82-2	20	230	590	mg/m <sup>3</sup>
925	Diaminopyridine, 2,6-	141-86-6	0.33	3.6	22	mg/m <sup>3</sup>
926	Ethyl acetoacetate	141-97-9	12	130	790	mg/m <sup>3</sup>
927	Oxydiethylenedicarbonic acid, diallyl ester	142-22-3	4.7	51	100	mg/m <sup>3</sup>
928	Dichloropropane, 1,3-	142-28-9	5.4	59	350	ppm
929	Hexanoyl chloride	142-61-0	1.2	13	79	mg/m <sup>3</sup>
930	Hexanoic acid; (caproic acid)	142-62-1	2.2	24	140	mg/m <sup>3</sup>
931	Cupric acetate, anhydrous; (Copper acetate)	142-71-2	8.6	20	120	mg/m <sup>3</sup>
932	Magnesium acetate	142-72-3	26	280	1,700	mg/m <sup>3</sup>
933	Iminodiacetic acid	142-73-4	0.82	9	54	mg/m <sup>3</sup>
934	Heptane	142-82-5	500	830	5,000	ppm
935	Dipropylamine	142-84-7	2.8	31	180	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
936	Dodecyl methacrylate	142-90-5	6.9	76	460	ppm
937	Butyl ether, n-; (Dibutyl ether)	142-96-1	2.6	29	170	ppm
938	Nonyl alcohol	143-08-8	11	120	710	mg/m <sup>3</sup>
939	Bromododecane, 1-	143-15-7	12	130	790	mg/m <sup>3</sup>
940	Hexadecanamine, 1-	143-27-1	0.66	7.2	43	mg/m <sup>3</sup>
941	<b>Sodium cyanide</b>	<b>143-33-9</b>	<b>4.0</b>	<b>14</b>	<b>30</b>	mg/m <sup>3</sup>
942	Kepone; (Chlordecone)	143-50-0	1.6	17	100	mg/m <sup>3</sup>
943	Sodium tetraphenyl borate	143-66-8	0.86	9.5	57	mg/m <sup>3</sup>
944	Fluoroacetic acid; (Fluoroethanoic acid)	144-49-0	0.043	0.47	0.93	mg/m <sup>3</sup>
945	Sodium bicarbonate	144-55-8	13	140	840	mg/m <sup>3</sup>
946	Oxalic acid, anhydrous; (Ethanedioic acid)	144-62-7	2	20	500	mg/m <sup>3</sup>
947	Mercaptobenzoic acid, o-	147-93-3	0.16	1.8	11	mg/m <sup>3</sup>
948	Sodium diethyldithiocarbamate; (Diethyldithiocarbamic acid, sodium salt)	148-18-5	6	27	300	mg/m <sup>3</sup>
949	Quinololinol, 8-	148-24-3	3.6	40	240	mg/m <sup>3</sup>
950	Mercaptobenzothiazole, 2-; (2-Benzothiazolethiol)	149-30-4	15	27	56	mg/m <sup>3</sup>
951	Hydroxymethanesulfinic acid, monosodium salt; (Formaldehyde hydrosulfite)	149-44-0	6.6	72	430	mg/m <sup>3</sup>
952	Ethyl hexanoic acid, 2-; (Butyl ethyl acetic acid)	149-57-5	15	99	590	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
953	Orthoformic acid, trimethyl ester; (Trimethyl orthoformate)	149-73-5	0.28	3	18	ppm
954	Dichloromethylphenylsilane	149-74-6	0.9	11	50	ppm
955	Aminobenzoic acid, p-	150-13-0	15	69	410	mg/m <sup>3</sup>
956	Hydroxyethylenediaminetriacetic acid, N-	150-39-0	2	22	130	mg/m <sup>3</sup>
957	Methoxyphenol, p-	150-76-5	15	49	320	mg/m <sup>3</sup>
958	Sodium succinate	150-90-3	2.2	25	150	ppm
959	Dimethoxybenzene, 1,3-	151-10-0	3	32	190	mg/m <sup>3</sup>
960	Sodium lauryl sulfate	151-21-3	3.9	43	260	mg/m <sup>3</sup>
961	Methoxyethylmercuric acetate	151-38-2	0.048	0.064	3.2	mg/m <sup>3</sup>
962	Lauryl sulfate; (Dodecyl sulfate)	151-41-7	3.9	43	260	mg/m <sup>3</sup>
963	<b>Potassium cyanide</b>	<b>151-50-8</b>	<b>5.3</b>	<b>19</b>	<b>40</b>	mg/m <sup>3</sup>
964	<b>Ethyleneimine</b>	<b>151-56-4</b>	0.1	<b>4.6</b>	<b>9.9</b>	ppm
965	Octamethyldiphosphoramidate; (Octamethylpyrophosphoramidate, Schradan)	152-16-9	0.073	0.8	4.9	mg/m <sup>3</sup>
966	Phenylpropanolamine hydrochloride; (Propadrine hydrochloride)	154-41-6	4.5	49	300	mg/m <sup>3</sup>
967	Nitrosodiphenylamine, p-	156-10-5	0.58	6.4	39	mg/m <sup>3</sup>
968	Butyric acid, sodium salt	156-54-7	30	330	2,000	mg/m <sup>3</sup>
969	<b>Dichloroethylene, cis-1,2-</b>	<b>156-59-2</b>	<b>140</b>	<b>500</b>	<b>850</b>	ppm

Compounds with unknown CASRNs are issued a "z-number" for identification purposes.  
 Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
970	<b>Dichloroethylene, trans-1,2-</b>	<b>156-60-5</b>	<b>280</b>	<b>1,000</b>	<b>1,700</b>	ppm
971	Calcium cyanamide	156-62-7	1.5	5.6	50	mg/m <sup>3</sup>
972	Amino-1-propanol, 3-	156-87-6	8.3	91	550	mg/m <sup>3</sup>
973	Benzo(ghi)perylene	191-24-2	30	330	2,000	mg/m <sup>3</sup>
974	Dibenzo(a,e)pyrene; (Naphtho(1,2,3,4-def)chrysene)	192-65-4	30	330	2,000	mg/m <sup>3</sup>
975	Indeno(1,2,3-cd)pyrene	193-39-5	1.2	13	79	mg/m <sup>3</sup>
976	Benz(e)acephenanthrylene; (Benzo(b)fluoroanthene)	205-99-2	0.12	1.3	7.9	mg/m <sup>3</sup>
977	Fluoranthene	206-44-0	8.2	90	400	mg/m <sup>3</sup>
978	Acenaphthylene	208-96-8	10	110	660	mg/m <sup>3</sup>
979	Chrysene	218-01-9	0.6	12	69	mg/m <sup>3</sup>
980	Dibenzo-p-dioxin	262-12-4	3.7	40	240	mg/m <sup>3</sup>
981	Diazabicyclo(2,2,2)octane, 1,4-	280-57-9	5.1	56	340	mg/m <sup>3</sup>
982	Cyclopentane	287-92-3	1,800	3,800	23,000	ppm
983	Imidazole	288-32-4	0.66	7.3	44	mg/m <sup>3</sup>
984	Tetrazole, 1H-	288-94-8	1.2	13	79	mg/m <sup>3</sup>
985	Cyclooctane	292-64-8	26	290	1,700	ppm
986	Isobenzan	297-78-9	0.01	0.11	0.66	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
987	Thionazin; (Ethyl pyrazinyl phosphorothioate)	297-97-2	0.32	3.5	21	mg/m <sup>3</sup>
988	<b>Methyl parathion</b>	<b>298-00-0</b>	0.11	<b>1.2</b>	<b>3.5</b>	mg/m <sup>3</sup>
989	<b>Phorate</b>	<b>298-02-2</b>	0.0036	<b>0.040</b>	<b>0.12</b>	mg/m <sup>3</sup>
990	Disulfoton	298-04-4	0.18	2	8.8	mg/m <sup>3</sup>
991	Bis(2-ethylhexyl) hydrogen phosphate	298-07-7	15	160	980	mg/m <sup>3</sup>
992	Potassium bicarbonate	298-14-6	140	1,600	9,500	mg/m <sup>3</sup>
993	Lead acetate; (Lead diacetate)	301-04-2	5	55	330	mg/m <sup>3</sup>
994	Stannous octoate	301-10-0	0.68	110	670	mg/m <sup>3</sup>
995	<b>Hydrazine</b>	<b>302-01-2</b>	<b>0.10</b>	<b>13</b>	<b>35</b>	ppm
996	Trichloroacetaldehyde hydrate; (Chloral hydrate)	302-17-0	2.5	27	95	mg/m <sup>3</sup>
997	Sodium potassium tartrate; (Potassium sodium tartrate)	304-59-6	9	99	590	mg/m <sup>3</sup>
998	Hydroxy-N-phenylbenzamide, N-; (Phenylbenzohydroxamic acid, N-)	304-88-1	30	330	2,000	mg/m <sup>3</sup>
999	<b>HCFC-123; (Dichloro-1,1,1-trifluoroethane, 2,2-)</b>	<b>306-83-2</b>	150	<b>1,000</b>	<b>10,000</b>	ppm
1000	Tetracosafuorotetradecahydro-phenanthrene; (Perfluorophenanthrene)	306-91-2	10	110	680	mg/m <sup>3</sup>
1001	Aldrin; (1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,8a-hexahydro-1,4-endo,exo-5,8-dimethano-1,2,3,4-tetrahydronaphthalene)	309-00-2	0.91	10	100	mg/m <sup>3</sup>
1002	Tributyl-1-butanaminium iodide, N,N,N-; (Tetrabutylammonium iodide)	311-28-4	6	66	390	mg/m <sup>3</sup>
1003	Lactic acid, sodium salt, DL-; (Propanoic acid, 2-hydroxy-, monosodium salt)	312-85-6	30	330	2,000	mg/m <sup>3</sup>

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 Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
1004	Mexacarbate; (4-(Dimethylamine)-3,5-xylyl N-methylcarbamate)	315-18-4	1.3	14	84	mg/m <sup>3</sup>
1005	Thenoyltrifluoroacetone	326-91-0	0.9	9.9	59	mg/m <sup>3</sup>
1006	Trichloronate; (Ethyl trichlorophenylethylphosphonothioate)	327-98-0	0.91	10	30	mg/m <sup>3</sup>
1007	<b>Agent GF; (Methyl cyclohexylfluorophosphonate)</b>	<b>329-99-7</b>	<b>0.00020</b>	<b>0.0024</b>	<b>0.018</b>	ppm
1008	Ethylenediamine dihydrochloride	333-18-6	2.7	29	180	mg/m <sup>3</sup>
1009	Potassium thiocyanate	333-20-0	2.6	28	170	mg/m <sup>3</sup>
1010	Methyl-trifluoromethanesulfonate	333-27-7	22	230	1,400	mg/m <sup>3</sup>
1011	Diazomethane	334-88-3	0.6	6.6	40	ppm
1012	Heptafluorotetrahydro-5-(nonafluorobutyl)furan, 2,2,3,3,4,4,5-; (Perfluoro-2-butyltetrahy	335-36-4	10	110	680	mg/m <sup>3</sup>
1013	Pentadecafluorooctanoic acid	335-67-1	1.1	12	75	mg/m <sup>3</sup>
1014	Boron trifluoride-dimethyl ether	353-42-4	2.5	29	88	mg/m <sup>3</sup>
1015	<b>Carbonyl fluoride</b>	<b>353-50-4</b>	0.025	<b>0.28</b>	<b>0.83</b>	ppm
1016	Halon 1211; (Bromochlorodifluoromethane)	353-59-3	13	140	1,400	ppm
1017	Bromo-2-chloro-1,1,2-trifluoroethane, 1-; (1,1,2-Trifluoro-1-bromo-2-chloroethane)	354-06-3	7.7	85	510	ppm
1018	Trifluoroacetyl chloride	354-32-5	3.2	35	210	ppm
1019	Trichloro-2,2,2-trifluoroethane, 1,1,1-	354-58-5	100	1,200	6,900	mg/m <sup>3</sup>
1020	Tetradecafluorohexane; (Perfluoro-n-hexane; Fluorinert FC72)	355-42-0	11	120	2,000	ppm

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
1021	Brucine; (2,3-Dimethoxystrychnine)	357-57-3	0.29	3.2	36	mg/m <sup>3</sup>
1022	Trifluoromethanesulfonic anhydride	358-23-6	12	130	790	mg/m <sup>3</sup>
1023	Fluoroacetyl chloride	359-06-8	0.91	10	60	mg/m <sup>3</sup>
1024	Tetrafluoroethane, 1,1,2,2-; (HFC 134)	359-35-3	8,000	13,000	27,000	ppm
1025	Triethyloxonium tetrafluoroborate	368-39-8	19	220	1,300	mg/m <sup>3</sup>
1026	Fluoroaniline, p-	371-40-4	1.3	14	83	mg/m <sup>3</sup>
1027	Maleic acid, disodium salt	371-47-1	13	150	880	mg/m <sup>3</sup>
1028	Ethylene fluorohydrin; (2-Fluoroethanol)	371-62-0	0.0025	0.027	0.35	ppm
1029	Heptafluorobutyric acid	375-22-4	0.5	5.5	33	mg/m <sup>3</sup>
1030	Tetrachlorohexafluorobutane, 2,2,3,3-; (FLON; CFC316)	375-34-8	0.078	0.86	5.1	ppm
1031	Ergotamine tartrate	379-79-3	0.91	10	32	mg/m <sup>3</sup>
1032	<b>Perfluoroisobutylene; (Octafluoro-sec-butene)</b>	<b>382-21-8</b>	0.01	<b>0.11</b>	<b>0.33</b>	ppm
1033	Hexafluorobenzene	392-56-3	6.6	73	440	ppm
1034	Bis(trifluoromethyl)benzene, 1,3-	402-31-3	14	160	940	mg/m <sup>3</sup>
1035	Fluoro-4-nitrophenol, 2-	403-19-0	12	130	790	mg/m <sup>3</sup>
1036	Trifluoroacetic acid anhydride	407-25-0	14	150	920	mg/m <sup>3</sup>
1037	Silicon carbide	409-21-2	45	500	3,000	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
1038	Cyanamide	420-04-2	6	66	400	mg/m <sup>3</sup>
1039	Cyanic acid; (Hydrogen cyanate)	420-05-3	5.5	7.7	46	ppm
1040	Fluorotrimethylsilane	420-56-4	32	350	2,100	ppm
1041	Methyl fluorosulfate	421-20-5	0.0021	0.023	0.14	ppm
1042	Trifluoroacetaldehyde hydrate; (2,2,2-Trifluoro-1,1-ethanediol)	421-53-4	0.98	11	65	mg/m <sup>3</sup>
1043	Tetrabutylammonium fluoride; (N,N,N-Tributyl-1-butanaminium, fluoride)	429-41-4	100	1,200	6,900	mg/m <sup>3</sup>
1044	Trimethoxy(3,3,3-trifluoropropyl)silane	429-60-7	29	320	1,900	mg/m <sup>3</sup>
1045	Butanedione, 2,3-; (Diacetyl)	431-03-8	0.02	120	310	mg/m <sup>3</sup>
1046	Benzoin oxime	441-38-3	0.49	5.4	32	mg/m <sup>3</sup>
1047	Methyl fluoroacetate	453-18-9	0.021	0.23	1.4	mg/m <sup>3</sup>
1048	Bromofluorobenzene, 4-; (p-Fluorobromobenzene)	460-00-4	12	130	790	mg/m <sup>3</sup>
1049	<b>Cyanogen</b>	<b>460-19-5</b>	<b>2.0</b>	<b>8.3</b>	<b>25</b>	ppm
1050	Phosphorodifluoridic acid, ethyl ester; (Ethyl phosphorodifluoridate)	460-52-6	26	280	1,700	mg/m <sup>3</sup>
1051	Pentafluoropropane, 1,1,1,3,3-	460-73-1	900	25,000	1.50E+05	ppm
1052	Cyanoguanidene; (Guanidine, cyano-; Dicyandiamido)	461-58-5	61	680	4,000	mg/m <sup>3</sup>
1053	Fluorobenzene	462-06-6	30	330	1,200	mg/m <sup>3</sup>
1054	Allene; (1,2-Propadiene)	463-49-0	230	2,500	15,000	ppm

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
1055	<b>Ketene;</b> <b>(Carbomethene, Ethenone)</b>	<b>463-51-4</b>	0.0057	<b>0.063</b>	<b>0.19</b>	ppm
1056	<b>Carbonyl sulfide</b>	<b>463-58-1</b>	15	<b>55</b>	<b>150</b>	ppm
1057	Dimethylpropane, 2,2-; (Neopentane)	463-82-1	3,000	33,000	2.00E+05	ppm
1058	Pinacolyl alcohol; (tert-Butyl methyl carbinol)	464-07-3	1.9	21	130	ppm
1059	Isodrin	465-73-6	0.64	7	42	mg/m <sup>3</sup>
1060	Chlorfenvinfos	470-90-6	0.91	10	500	mg/m <sup>3</sup>
1061	Carbonic acid, calcium salt	471-34-1	45	210	1,300	mg/m <sup>3</sup>
1062	Oxamide	471-46-5	1.3	15	89	mg/m <sup>3</sup>
1063	Dimethyl-5-phenylphenazinium chloride, 3,7-diamino-2,8-; (Safranine; Gossypimine)	477-73-6	0.17	1.9	11	mg/m <sup>3</sup>
1064	Trinitrophenylmethylnitramine, 2,4,6-; (Tetryl)	479-45-8	4.5	14	1,300	mg/m <sup>3</sup>
1065	Dihydroxy-1,3-indandione, 2,2-; (Ninhydrin monohydrate)	485-47-2	0.26	2.8	17	mg/m <sup>3</sup>
1066	Indole-3-carboxaldehyde, 1H-; (3-Formylindole)	487-89-8	0.44	4.8	29	ppm
1067	Bis(dimethylamino)acridine, 3,6-; (Acridine orange)	494-38-2	1.2	13	79	mg/m <sup>3</sup>
1068	Indan	496-11-7	20	220	1,300	mg/m <sup>3</sup>
1069	Glycoluril; (Acetyleneurea)	496-46-8	30	330	2,000	mg/m <sup>3</sup>
1070	Sodium carbonate	497-19-8	7.6	83	500	mg/m <sup>3</sup>
1071	Dipicolinic acid; (2,6-Pyridinedicarboxylic acid)	499-83-2	30	330	2,000	mg/m <sup>3</sup>

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 Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.



**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
1072	<b>Benzyl chloroformate; (Carbobenzoxy chloride)</b>	<b>501-53-1</b>	0.088	<b>0.97</b>	<b>2.9</b>	ppm
1073	Methylmercuric dicyanamide	502-39-6	0.045	0.06	3	mg/m <sup>3</sup>
1074	Caprolactone; (epsilon-Lactone hexanoic acid)	502-44-3	13	140	850	mg/m <sup>3</sup>
1075	Aminopyridine, 4-; (4-Pyridinamine)	504-24-5	1.8	20	40	mg/m <sup>3</sup>
1076	Aminopyridine, 2-	504-29-0	1.5	1.7	10	ppm
1077	Propanediol, 1,3-	504-63-2	7.8	86	520	mg/m <sup>3</sup>
1078	<b>Bis(2-chloroethyl)sulfide; (HD; Sulfur mustard)</b>	<b>505-60-2</b>	<b>0.01</b>	<b>0.02</b>	<b>0.32</b>	ppm
1079	Potassium silver cyanide	506-61-6	2.9	32	190	mg/m <sup>3</sup>
1080	Silver cyanide	506-64-9	0.37	4.1	24	mg/m <sup>3</sup>
1081	Cyanogen bromide	506-68-3	24	44	200	mg/m <sup>3</sup>
1082	<b>Cyanogen chloride</b>	<b>506-77-4</b>	0.0045	<b>0.05</b>	<b>4</b>	ppm
1083	Cyanogen iodide	506-78-5	35	180	290	mg/m <sup>3</sup>
1084	Fulminic acid; (Carbyloxime)	506-85-4	0.68	7.5	45	ppm
1085	Ammonium carbonate	506-87-6	0.31	3.5	21	mg/m <sup>3</sup>
1086	Acetyl bromide	506-96-7	0.16	1.8	11	ppm
1087	Thioacetic acid	507-09-5	0.079	0.87	5.2	ppm
1088	Chloro-2-methylpropane, 2-; (Tert-butyl chloride)	507-20-0	2.3	26	150	ppm

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
1089	Tetraphenylarsonium chloride; (Tetraphenylarsenium chloride)	507-28-8	8.4	92	550	mg/m <sup>3</sup>
1090	<b>Tetranitromethane</b>	<b>509-14-8</b>	0.047	<b>0.52</b>	<b>1.7</b>	ppm
1091	Chlorobenzylate; (4,4'-Dichlorobenzilic acid ethyl ester)	510-15-6	8.4	92	550	mg/m <sup>3</sup>
1092	Trimethyl phosphate; (TMP)	512-56-1	0.44	4.8	29	ppm
1093	Hexaphenylcyclotrisiloxane	512-63-0	12	130	790	mg/m <sup>3</sup>
1094	Ascaridole	512-85-6	0.6	6.6	40	mg/m <sup>3</sup>
1095	Tripropyl phosphate; (TPP)	513-08-6	13	76	1,100	mg/m <sup>3</sup>
1096	Methyl-2-butene, 2-; (Amylene)	513-35-9	4.2	46	280	ppm
1097	Isobutyl chloride; (1-Chloro-2-methylpropane)	513-36-0	32	350	2,100	ppm
1098	Methyl-1-propanethiol, 1-; (sec-Butyl mercaptan; 2-Butanethiol)	513-53-1	4.2	46	280	ppm
1099	Barium carbonate	513-77-9	2.2	270	1,600	mg/m <sup>3</sup>
1100	Cadmium carbonate	513-78-0	0.15	1.2	7.2	mg/m <sup>3</sup>
1101	Cobaltous carbonate	513-79-1	0.12	210	1,200	mg/m <sup>3</sup>
1102	Dithiazanine iodide; (3,3'-Diethylpentamethinethiacyanine iodide)	514-73-8	1.8	20	33	mg/m <sup>3</sup>
1103	Ammonium lactate	515-98-0	30	330	2,000	mg/m <sup>3</sup>
1104	Ferrous Oxalate; (Iron(II) oxalate)	516-03-0	7.7	86	510	mg/m <sup>3</sup>
1105	Aminoethyl)diphenylborinic acid, o-(2-; (Diphenylboronic acid, ethanolamine ester)	524-95-8	0.18	2	12	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
1106	<b>Trimethylbenzene, 1,2,3-</b>	<b>526-73-8</b>	<b>140</b>	<b>360</b>	480	ppm
1107	Tartaric acid, monosodium salt	526-94-3	7.1	79	470	mg/m <sup>3</sup>
1108	Gluconic acid, D-	526-95-4	30	330	2,000	mg/m <sup>3</sup>
1109	Tetramethylbenzene, 1,2,3,5-	527-53-7	15	170	1,000	mg/m <sup>3</sup>
1110	Benzoic acid, sodium salt	532-32-1	61	680	810	mg/m <sup>3</sup>
1111	Bis(chloromethyl)ketone; (1,3-Dichloroacetone)	534-07-6	0.025	0.27	1	mg/m <sup>3</sup>
1112	Silver carbonate; (Silver(I) carbonate)	534-16-7	11	120	740	mg/m <sup>3</sup>
1113	Cesium carbonate	534-17-8	7	77	460	mg/m <sup>3</sup>
1114	Methylfuran, 2-	534-22-5	0.33	3.7	22	ppm
1115	Dinitro-o-cresol, 4,6-	534-52-1	0.6	0.83	5	mg/m <sup>3</sup>
1116	Crimidine; (Castrix)	535-89-7	0.0063	0.069	0.41	mg/m <sup>3</sup>
1117	Phenylacetylene; (Ethyne)benzene)	536-74-3	28	310	1,900	mg/m <sup>3</sup>
1118	Cerium acetate	537-00-8	30	330	2,000	mg/m <sup>3</sup>
1119	<b>Nitrogen mustard-1; (Ethylbis(2-chloroethyl)amine; Bis(2-chloroethyl</b>	<b>538-07-8</b>	0.002	<b>0.022</b>	<b>0.37</b>	mg/m <sup>3</sup>
1120	Dicyclohexylcarbodiimide	538-75-0	0.12	1.3	8	mg/m <sup>3</sup>
1121	Bromoethanol, 2-; (Ethylene bromohydrin)	540-51-2	0.06	0.66	23	mg/m <sup>3</sup>
1122	Dichloroethylene, 1,2-	540-59-0	140	500	850	ppm

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
1123	Ethanedithiol, 1,2-	540-63-6	0.15	1.6	9.6	ppm
1124	Ammonium formate	540-69-2	3.7	41	240	mg/m <sup>3</sup>
1125	Sodium isothiocyanate; (Thiocyanic acid, sodium salt)	540-72-7	0.7	7.7	46	mg/m <sup>3</sup>
1126	<b>Dimethylhydrazine, 1,2-</b>	<b>540-73-8</b>	0.27	<b>3.0</b>	<b>11</b>	ppm
1127	Isooctane; (2,2,4-Trimethylpentane)	540-84-1	230	830	5,000	ppm
1128	Butyl acetate, tert-	540-88-5	600	1,700	10,000	ppm
1129	Dodecamethylcyclohexasiloxane	540-97-6	150	1,700	9,900	mg/m <sup>3</sup>
1130	Hexamethylcyclotrisiloxane	541-05-9	12	130	790	mg/m <sup>3</sup>
1131	Uranyl acetate; (Uranium oxyacetate)	541-09-3	0.98	5.5	33	mg/m <sup>3</sup>
1132	<b>Lewisite 1; (Chlorovinylarsine dichloride)</b>	<b>541-25-3</b>	0.023	<b>0.25</b>	<b>0.74</b>	mg/m <sup>3</sup>
1133	<b>Ethyl chloroformate</b>	<b>541-41-3</b>	0.15	<b>1.6</b>	<b>4.8</b>	ppm
1134	Methylbutanamide, 3-; (Isovaleramide)	541-46-8	1.7	19	110	mg/m <sup>3</sup>
1135	Dithiobiuret	541-53-7	0.45	5	11	mg/m <sup>3</sup>
1136	Dichlorobenzene, m-	541-73-1	6	66	400	ppm
1137	Ethyl sec-amyl ketone; (5-Methyl-3-heptanone)	541-85-5	30	500	3,000	ppm
1138	Benzenamine, sulfate (2:1)	542-16-5	30	330	2,000	mg/m <sup>3</sup>
1139	Barium cyanide	542-62-1	44	60	360	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
1140	Dichloropropene, 1,3-; (including cis- and trans- isomers)	542-75-6	3	19	120	ppm
1141	Chloropropionitrile, 3-	542-76-7	0.23	2.5	5.4	ppm
1142	<b>Dichloromethyl ether; (bis(Chloromethyl)ether)</b>	<b>542-88-1</b>	0.004	<b>0.044</b>	<b>0.18</b>	ppm
1143	Ethylthiocyanate	542-90-5	20	100	170	mg/m <sup>3</sup>
1144	<b>Isobutyl chloroformate</b>	<b>543-27-1</b>	0.6	<b>2.2</b>	<b>6.7</b>	ppm
1145	Barium acetate; (Barium acetate anhydrous)	543-80-6	2.8	330	2,000	mg/m <sup>3</sup>
1146	Cadmium(II) acetate	543-90-8	0.21	1.6	9.6	mg/m <sup>3</sup>
1147	Diisoamylamine	544-00-3	0.041	0.45	2.7	ppm
1148	Calcium formate	544-17-2	8.5	71	710	mg/m <sup>3</sup>
1149	Tetradecanoic acid; (Myristic acid)	544-63-8	0.14	1.6	9.3	mg/m <sup>3</sup>
1150	Hexadecane	544-76-3	35	380	2,800	mg/m <sup>3</sup>
1151	Copper cyanide; (Copper(I) cyanide; Cuprous cyanide)	544-92-3	21	29	170	mg/m <sup>3</sup>
1152	Octaphenylcyclotetrasiloxane	546-56-5	14	150	920	mg/m <sup>3</sup>
1153	Isopropyl titanate(IV); (Titanium(IV) isopropoxide)	546-68-9	22	250	1,500	mg/m <sup>3</sup>
1154	Acetic acid, lithium salt	546-89-4	3.2	36	210	mg/m <sup>3</sup>
1155	Magnesium carbonate; (Magnesite)	546-93-0	45	260	1,600	mg/m <sup>3</sup>
1156	Dimethylamino)phenyl)azo)benzenesulfonic acid, sodium salt, p-((p-; (Methyl orange, s	547-58-0	0.18	2	12	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
1157	Nickel oxalate	547-67-1	0.75	8.3	50	mg/m <sup>3</sup>
1158	Crystal violet; (Aniline violet)	548-62-9	0.082	0.9	83	mg/m <sup>3</sup>
1159	Ethanedioic acid, dimethyl ester	553-90-2	2	22	130	mg/m <sup>3</sup>
1160	Potassium gold cyanide	554-07-4	33	47	280	mg/m <sup>3</sup>
1161	Lithium carbonate	554-13-2	3.1	34	210	mg/m <sup>3</sup>
1162	Nitrophenol, 3-; (m-Nitrophenol)	554-84-7	2.8	31	180	mg/m <sup>3</sup>
1163	Aluminum(III) isopropylate	555-31-7	23	370	2,200	mg/m <sup>3</sup>
1164	<b>Nitrogen mustard-3; (Tris(2-chloroethyl)amine)</b>	<b>555-77-1</b>	0.002	<b>0.022</b>	<b>0.37</b>	mg/m <sup>3</sup>
1165	Glycidol; (Oxiranemethanol, 1-Propanol, 2,3-epoxy)	556-52-5	6	83	500	ppm
1166	<b>Methyl isothiocyanate; (Isothiocyanatomethane)</b>	<b>556-61-6</b>	<b>0.27</b>	<b>17</b>	<b>50</b>	ppm
1167	Methyl thiocyanate	556-64-9	17	28	140	ppm
1168	Octamethylcyclotetrasiloxane	556-67-2	30	68	130	ppm
1169	Zinc stearate	557-05-1	30	330	2,000	mg/m <sup>3</sup>
1170	Nickel cyanide	557-19-7	1.1	13	75	mg/m <sup>3</sup>
1171	Diethylzinc	557-20-0	24	260	1,600	ppm
1172	Zinc cyanide	557-21-1	14	18	110	mg/m <sup>3</sup>
1173	Zinc acetate	557-34-6	0.19	2.1	12	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
1174	Magnesium formate	557-39-1	30	330	2,000	mg/m <sup>3</sup>
1175	Chloropropylene, 2-	557-98-2	210	2,300	3,000	ppm
1176	Methanesulfonyl fluoride	558-25-8	0.018	0.19	1.2	ppm
1177	Ethion	563-12-2	1.2	13	38	mg/m <sup>3</sup>
1178	Dimethylhexane, 3,3-	563-16-6	230	385	5,000	ppm
1179	Semicarbazide hydrochloride	563-41-7	9.1	100	600	mg/m <sup>3</sup>
1180	Dichloroethylaluminum	563-43-9	28	310	1,800	mg/m <sup>3</sup>
1181	Methyl-1-butene, 2-	563-46-2	42	460	2,800	ppm
1182	Chloro-2-methyl-1-propene, 3-	563-47-3	1.2	13	45	ppm
1183	Dichloropropene, 1,2-; (including cis- isomer, 6923-20-2)	563-54-2	1.3	15	87	ppm
1184	Dichloropropene, 1,1-	563-58-6	1.3	15	87	ppm
1185	Thallium(I) acetate; (Acetic acid, thallium(1+) salt)	563-68-8	0.077	4.3	26	mg/m <sup>3</sup>
1186	Bromonitromethane	563-70-2	0.4	4.4	26	mg/m <sup>3</sup>
1187	Ferrous carbonate	563-71-3	6.2	69	410	mg/m <sup>3</sup>
1188	Calcium oxalate	563-72-4	12	130	790	mg/m <sup>3</sup>
1189	Methyl isopropyl ketone; (3-Methyl-2-butanone)	563-80-4	60	660	4,000	ppm
1190	Dimethyl-3-pentanone, 2,4-	565-80-0	2.3	25	150	ppm

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
1191	Basic Green 4; (Aizen malachite green)	569-64-2	0.13	1.4	8.7	mg/m <sup>3</sup>
1192	Dinitrophenol, 2,6-	573-56-8	0.23	2.5	15	mg/m <sup>3</sup>
1193	Dimethylphenol, 2,6-; (2,6-Xylenol)	576-26-1	2.4	26	160	mg/m <sup>3</sup>
1194	Bromomesitylene, 2-; (2-Bromo-1,3,5-trimethylbenzene)	576-83-0	30	330	2,000	mg/m <sup>3</sup>
1195	Dioctyl sodium sulfosuccinate; (Di-(2-ethylhexyl) sodium sulfosuccinate)	577-11-7	5.7	63	380	mg/m <sup>3</sup>
1196	<b>Adamsite; (Phenarsazine chloride)</b>	<b>578-94-9</b>	<b>0.016</b>	<b>2.6</b>	<b>6.4</b>	mg/m <sup>3</sup>
1197	Phenyl-1,2-propanedione, 1-	579-07-7	0.4	4.5	27	mg/m <sup>3</sup>
1198	Potassium oxalate	583-52-8	2	22	130	mg/m <sup>3</sup>
1199	Methylcyclohexanone, 2-; (o-Methylcyclohexanone)	583-60-8	75	420	2,500	ppm
1200	Potassium carbonate	584-08-7	5.6	62	370	mg/m <sup>3</sup>
1201	<b>Toluene-2,4-diisocyanate; (TDI)</b>	<b>584-84-9</b>	<b>0.020</b>	<b>0.083</b>	<b>0.51</b>	ppm
1202	Diphenyl mercury	587-85-9	0.53	8.3	50	mg/m <sup>3</sup>
1203	Stilbene	588-59-0	3.8	41	250	mg/m <sup>3</sup>
1204	Hexanone, 3-; (Ethyl propyl ketone)	589-38-8	2.6	29	170	ppm
1205	Methylheptane, 4-	589-53-7	230	385	5,000	ppm
1206	Butyl propanoate; (Propanoic acid, butyl ester)	590-01-2	34	370	990	mg/m <sup>3</sup>
1207	Butene, cis-2-; (cis-1,2-Dimethylethylene)	590-18-1	750	2,200	13,000	ppm

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
1208	Potassium formate	590-29-4	9	99	600	mg/m <sup>3</sup>
1209	Aminoiminomethyl)urea sulfate(2:1), (	591-01-5	30	330	2,000	mg/m <sup>3</sup>
1210	Aminophenol, m-	591-27-5	3	33	200	mg/m <sup>3</sup>
1211	Iodobenzene	591-50-4	5.4	59	360	mg/m <sup>3</sup>
1212	Hexanone, 2-; (Methyl n-butyl ketone)	591-78-6	10	830	5,000	ppm
1213	Acetic acid, 2-propenyl ester	591-87-7	0.42	4.6	28	ppm
1214	<b>Calcium cyanide</b>	<b>592-01-8</b>	<b>3.8</b>	<b>13</b>	<b>28</b>	mg/m <sup>3</sup>
1215	Mercuric cyanide	592-04-1	0.094	0.13	35	mg/m <sup>3</sup>
1216	Platinum cyanide	592-06-3	0.0076	0.083	0.5	mg/m <sup>3</sup>
1217	Methylheptane, 2-	592-27-8	230	385	5,000	ppm
1218	<b>Butyl chloroformate, n-</b>	<b>592-34-7</b>	0.6	<b>2.2</b>	<b>6.7</b>	ppm
1219	<b>Hexene, 1-</b>	<b>592-41-6</b>	150	<b>500</b>	<b>5,000</b>	ppm
1220	Heptene, 1-	592-76-7	130	1,400	8,700	ppm
1221	Formic acid, butyl ester; (n-Butyl formate)	592-84-7	4.6	51	300	ppm
1222	Mercuric thiocyanate; (Mercuric sulfocyanate)	592-85-8	0.12	0.16	44	mg/m <sup>3</sup>
1223	Octadecane, n-	593-45-3	230	385	5,000	ppm
1224	Methylamine hydrochloride	593-51-1	2.7	30	320	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
1225	Methyl fluoride; (Fluoromethane)	593-53-3	13	150	900	mg/m <sup>3</sup>
1226	Vinyl bromide; (Bromoethylene)	593-60-2	39	430	2,600	ppm
1227	Dimethyl mercury	593-74-8	0.034	0.046	2.3	mg/m <sup>3</sup>
1228	Thiocyanic acid, compound with guanidine (1:1); (Guanidine thiocyanate salt)	593-84-0	0.98	11	65	mg/m <sup>3</sup>
1229	<b>Methyldichloroarsine; (Dichloromethylarsine)</b>	<b>593-89-5</b>	0.0048	<b>0.053</b>	<b>0.16</b>	mg/m <sup>3</sup>
1230	Trimethylphosphine	594-09-2	0.39	4.2	25	ppm
1231	Tert-butyllithium	594-19-4	1.2	13	79	mg/m <sup>3</sup>
1232	Dichloropropane, 2,2-	594-20-7	2.6	29	170	ppm
1233	<b>Perchloromethyl mercaptan</b>	<b>594-42-3</b>	<b>0.013</b>	<b>0.30</b>	<b>0.90</b>	ppm
1234	Hydroxy-2-methylpropanoic acid, 2-; (2-Methylactic acid)	594-61-6	30	330	2,000	mg/m <sup>3</sup>
1235	Dimethylbutyric acid, 2,2-	595-37-9	12	130	790	mg/m <sup>3</sup>
1236	Tetraethyltin; (Tetraethylstannane)	597-64-8	0.4	7	42	mg/m <sup>3</sup>
1237	<b>Ethyldichloroarsine; (Dichloroethylarsine)</b>	<b>598-14-1</b>	0.0026	<b>0.029</b>	<b>0.086</b>	mg/m <sup>3</sup>
1238	Methyl-1-propen-1-one, 2-; (Dimethylketene)	598-26-5	0.011	0.12	0.69	ppm
1239	Butyllithium, sec-	598-30-1	110	1,200	7,300	ppm
1240	<b>Bromoacetone</b>	<b>598-31-2</b>	<b>0.011</b>	<b>0.33</b>	<b>0.98</b>	ppm
1241	Methyl vinyl carbinol; (3-Buten-2-ol)	598-32-3	41	450	2,700	ppm

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
1242	Methyl nitrate; (Nitric acid, methyl ester)	598-58-3	0.85	9.4	56	ppm
1243	Manganese carbonate	598-62-9	6.3	10	60	mg/m <sup>3</sup>
1244	Lead carbonate	598-63-0	0.19	24	900	mg/m <sup>3</sup>
1245	Bromotrifluoroethylene	598-73-2	3.2	230	1,400	ppm
1246	Pentafluorobenzoic acid	602-94-8	0.58	6.4	39	mg/m <sup>3</sup>
1247	Triphenylphosphine	603-35-0	2.9	32	540	mg/m <sup>3</sup>
1248	Dinitrotoluene, 2,6-	606-20-2	0.6	47	200	mg/m <sup>3</sup>
1249	Dibromophenol, 2,6-	608-33-3	14	150	900	mg/m <sup>3</sup>
1250	Pentachlorobenzene	608-93-5	4.4	49	220	mg/m <sup>3</sup>
1251	Dinitrotoluene, 3,4-	610-39-9	0.6	33	200	mg/m <sup>3</sup>
1252	Ethyltoluene, o-	611-14-3	20	220	1,300	mg/m <sup>3</sup>
1253	Nitrosotoluene, 2-; (o-Nitrosotoluene)	611-23-4	12	130	790	mg/m <sup>3</sup>
1254	Alpha-hydroxybenzeneacetic acid, (+-); (DL-mandelic acid)	611-72-3	25	270	1,600	mg/m <sup>3</sup>
1255	Butyl perbenzoate, tert-	614-45-9	8.2	90	200	mg/m <sup>3</sup>
1256	Methylphenylthiourea, 2-; (o-Tolyl thiourea)	614-78-8	4.5	50	300	mg/m <sup>3</sup>
1257	Furancarboxylic acid, ethyl ester, 2-; (Ethyl furoate)	614-99-3	0.1	1.1	6.8	ppm
1258	Phenylenediamine dihydrochloride, 1,2-	615-28-1	1.7	19	110	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
1259	Dimethyl carbonate	616-38-6	11	120	700	ppm
1260	Pyrrolidinone, 2-	616-45-5	6.9	76	460	ppm
1261	Methylimidazole, 1-	616-47-7	2.3	25	150	mg/m <sup>3</sup>
1262	Phenyl-2-propanol, 2-; (Dimethylphenylmethanol)	617-94-7	0.7	7.7	46	ppm
1263	Chloro-4-nitrophenol, 2-	619-08-9	0.38	4.2	25	ppm
1264	Tribenzylamine	620-40-6	30	330	2,000	mg/m <sup>3</sup>
1265	Nitrosodipropylamine; (DPNA)	621-64-7	5.6	62	95	mg/m <sup>3</sup>
1266	Ethyltoluene, p-	622-96-8	15	160	960	mg/m <sup>3</sup>
1267	Diazoacetic acid, ethyl ester; (Ethyl diazoacetate)	623-73-4	1.2	13	79	mg/m <sup>3</sup>
1268	Diethylurea, 1,3-	623-76-7	2.9	32	190	ppm
1269	Phenylenediamine dihydrochloride, 1,4-	624-18-0	0.44	4.9	29	mg/m <sup>3</sup>
1270	Dimethylcyclohexane, cis-1,4-	624-29-3	510	5,600	34,000	ppm
1271	Butene, trans-2-; (trans-1,2-Dimethylethylene)	624-64-6	750	2,400	14,000	ppm
1272	<b>Methyl isocyanate</b>	<b>624-83-9</b>	<b>0.025</b>	<b>0.067</b>	<b>0.20</b>	ppm
1273	<b>Dimethyl disulfide</b>	<b>624-92-0</b>	<b>0.01</b>	<b>50</b>	<b>250</b>	ppm
1274	Nitric acid, ethyl ester; (Ethyl nitrate)	625-58-1	0.59	6.5	39	ppm
1275	Hexanol, 2-; (2-Hydroxyhexane)	626-93-7	12	130	790	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
1276	Chloroethyl chloroformate	627-11-2	1.8	20	120	mg/m <sup>3</sup>
1277	Propyl nitrate	627-13-4	40	330	2,000	ppm
1278	Chloropropanol, 3-; (1-Propanol, 3-chloro-)	627-30-5	6.9	76	460	mg/m <sup>3</sup>
1279	Diethyl mercury	627-44-1	0.039	0.052	2.6	mg/m <sup>3</sup>
1280	Diethyl telluride	627-54-3	0.3	1.8	11	mg/m <sup>3</sup>
1281	Iodopentane, 1-	628-17-1	0.38	63	380	mg/m <sup>3</sup>
1282	Amyl acetate	628-63-7	100	670	4,000	ppm
1283	Diethylene glycol diacetate; (2,2'-Oxybisethanol diacetate)	628-68-2	47	520	3,100	mg/m <sup>3</sup>
1284	Hexanenitrile	628-73-9	0.19	2.1	13	ppm
1285	Ethylene glycol dinitrate; ethanediol dinitrate, 1,2-	628-96-6	0.016	0.2	80	ppm
1286	Dibromohexane, 1,6-	629-03-8	0.89	9.7	58	mg/m <sup>3</sup>
1287	Hexanediol, 1,6-; (Hexamethylene glycol)	629-11-8	30	610	730	mg/m <sup>3</sup>
1288	Cyclooctatetraene, 1,3,5,7-	629-20-9	65,000	2.30E+05	4.00E+05	ppm
1289	Tridecane	629-50-5	0.0073	0.08	2.3	ppm
1290	Tetradecane; (n-Tetradecane)	629-59-4	3.1	34	200	ppm
1291	Pentadecane	629-62-9	1.3	15	87	ppm
1292	Hexadecene, 1-	629-73-2	0.46	5.1	31	ppm

Compounds with unknown CASRN are issued a "z-number" for identification purposes.  
 Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
1293	Heptadecane	629-78-7	4.3	48	290	ppm
1294	Octacosane	630-02-4	230	385	5,000	ppm
1295	Nonacosane	630-03-5	30	330	2,000	mg/m <sup>3</sup>
1296	Pentatriacontane	630-07-9	30	330	2,000	mg/m <sup>3</sup>
1297	<b>Carbon monoxide</b>	<b>630-08-0</b>	75	<b>83</b>	<b>330</b>	ppm
1298	Tetrachloroethane, 1,1,1,2-	630-20-6	0.2	2.2	13	ppm
1299	Ouabain	630-60-4	0.75	8.3	50	mg/m <sup>3</sup>
1300	Ammonium acetate	631-61-8	3.8	42	250	mg/m <sup>3</sup>
1301	Tetrachlorobenzene, 1,2,3,4-	634-66-2	4.1	45	230	mg/m <sup>3</sup>
1302	Phenylphosphine	638-21-1	0.0045	0.05	1.7	ppm
1303	Acetic acid, manganese(II) salt (2:1)	638-38-0	9.4	16	96	mg/m <sup>3</sup>
1304	Triphenyltin chloride; (Chlorotriphenylstannane)	639-58-7	0.65	20	38	mg/m <sup>3</sup>
1305	Fluoroacetamide	640-19-7	0.53	5.8	19	mg/m <sup>3</sup>
1306	Manganese oxalate	640-67-5	7.8	13	78	mg/m <sup>3</sup>
1307	Dimetilan	644-64-4	2.3	25	150	mg/m <sup>3</sup>
1308	Aminoacetaldehyde diethyl acetal; (2,2-Diethoxyethylamine)	645-36-3	12	130	790	mg/m <sup>3</sup>
1309	Dioxolane, 1,3-	646-06-0	60	190	1,000	ppm

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
1310	Acetone-d6	666-52-4	200	3,200	5,700	ppm
1311	<b>Diketene; (Ketene dimer)</b>	<b>674-82-8</b>	0.091	<b>1.0</b>	<b>3.0</b>	ppm
1312	Cyanuric fluoride; (2,4,6-Trifluoro-s-triazine)	675-14-9	10	15	87	mg/m <sup>3</sup>
1313	Methylmagnesium chloride	676-58-4	1.2	13	79	mg/m <sup>3</sup>
1314	Methane-d3	676-80-2	65,000	2.30E+05	4.00E+05	ppm
1315	Dichloromethylphosphine; (Methylphosphonous dichloride)	676-83-5	0.25	2.8	17	ppm
1316	Methyl phosphonic dichloride	676-97-1	0.13	1.4	6.2	mg/m <sup>3</sup>
1317	Methyl phosphonothioic dichloride	676-98-2	1.2	13	79	mg/m <sup>3</sup>
1318	Methyl difluorophosphite; (Methylphosphonic difluoride)	676-99-3	0.38	4.1	25	mg/m <sup>3</sup>
1319	Hexamethylphosphoramide	680-31-9	0.34	3.7	17	ppm
1320	<b>Tetramethoxysilane; (Methyl silicate)</b>	<b>681-84-5</b>	0.083	<b>0.91</b>	<b>1.4</b>	ppm
1321	Tetrapropoxysilane	682-01-9	12	130	790	mg/m <sup>3</sup>
1322	Diethyl methylphosphonate; (DEMP)	683-08-9	7.3	81	480	mg/m <sup>3</sup>
1323	<b>Hexafluoroacetone</b>	<b>684-16-2</b>	0.018	<b>0.2</b>	<b>80</b>	ppm
1324	Nitroso-N-methylurea, N-	684-93-5	0.33	3.6	22	mg/m <sup>3</sup>
1325	Ethyl lactate; (Ethyl (S)-(-)-lactate)	687-47-8	5.7	63	380	mg/m <sup>3</sup>
1326	Boric acid, tributyl ester; (Tri-n-butyl borate)	688-74-4	0.37	4.1	25	ppm

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
1327	Hexafluorobutyne-2; (1,1,1,4,4,4-Hexafluoro-2-butyne)	692-50-2	0.054	0.6	3.6	ppm
1328	Tetrahydropyridine, 1,2,3,6-	694-05-3	8.7	96	570	ppm
1329	Cyclohexanediamine, 1,2-	694-83-7	2.1	23	140	mg/m <sup>3</sup>
1330	<b>Phenyl dichloroarsine; (Dichlorophenylarsine)</b>	<b>696-28-6</b>	0.0055	<b>0.061</b>	<b>0.18</b>	mg/m <sup>3</sup>
1331	<b>Diphenylchloroarsine; (Chlorodiphenylarsine)</b>	<b>712-48-1</b>	0.035	<b>0.39</b>	<b>1.2</b>	mg/m <sup>3</sup>
1332	Phosmet	732-11-6	0.049	0.54	77	mg/m <sup>3</sup>
1333	<b>HFO-1234yf; 2,3,3,3-Tetrafluoropropene</b>	<b>754-12-1</b>	2,200	<b>24,000</b>	1.40E+05	ppm
1334	Iodoheptafluoropropane, 1-; (Heptafluoropropyl iodide)	754-34-7	18	190	1,200	ppm
1335	Dimethyl methylphosphonate; (DMMP)	756-79-6	10	110	1,600	mg/m <sup>3</sup>
1336	Diethylphosphatoethyltriethoxy silane	757-44-8	52	570	3,400	mg/m <sup>3</sup>
1337	Methacrylic anhydride	760-93-0	0.41	4.5	16	mg/m <sup>3</sup>
1338	Diethyl phosphite	762-04-9	12	130	770	mg/m <sup>3</sup>
1339	Propionic acid, 3-ethoxy-, ethyl ester; (Ethyl-3-ethoxypropionate)	763-69-9	1.6	18	110	ppm
1340	Dichloro-2-butene, 1,4-	764-41-0	0.015	1.9	12	ppm
1341	Glycidaldehyde	765-34-4	0.39	4.3	26	ppm
1342	Phenyltriethoxysilane	780-69-8	8.5	93	560	mg/m <sup>3</sup>
1343	Carbophenothion; (Trithion)	786-19-6	0.62	6.8	24	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
1344	<b>HFC 134a; (Tetrafluoroethane, 1,1,1,2-)</b>	<b>811-97-2</b>	<b>8,000</b>	<b>13,000</b>	<b>27,000</b>	ppm
1345	Methyl alcohol-d4	811-98-3	530	2,100	7,200	ppm
1346	Diethyl chlorophosphate	814-49-3	0.73	8	11	mg/m <sup>3</sup>
1347	Acrylyl chloride; (Acryloyl chloride)	814-68-6	0.022	0.24	0.87	ppm
1348	Copper(II) oxalate	814-91-5	7.3	79	480	mg/m <sup>3</sup>
1349	Lead oxalate	814-93-7	11	120	700	mg/m <sup>3</sup>
1350	Strontium oxalate	814-95-9	120	1,300	7,900	mg/m <sup>3</sup>
1351	Hydroxyethyl acrylate, 2-; (Acrylic acid, 2-hydroxyethyl ester)	818-61-1	0.1	1.1	21	ppm
1352	Nonanone, 2-	821-55-6	0.51	5.6	34	ppm
1353	Hexamethylene diisocyanate; (1,6-Diisocyanatohexane)	822-06-0	0.018	0.2	3	ppm
1354	Sodium stearate	822-16-2	0.17	1.8	11	mg/m <sup>3</sup>
1355	Methylimidazole, 4-	822-36-6	10	110	150	mg/m <sup>3</sup>
1356	Dichlorocyclohexane, trans-1,2-	822-86-6	52	180	1,000	ppm
1357	Toluene-2,6-diamine; (2-Methyl-1,3-benzenediamine)	823-40-5	3	33	200	mg/m <sup>3</sup>
1358	Trimethylolpropane phosphite	824-11-3	0.23	2.5	2.8	mg/m <sup>3</sup>
1359	Methyl-8-quinolinol, 2-	826-81-3	30	330	2,000	mg/m <sup>3</sup>
1360	Phenylcyclohexane; (Cyclohexylbenzene)	827-52-1	20	220	1,300	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
1361	Naphthol-8-sulfonic acid, sodium salt, 2-	832-85-9	0.54	6	36	mg/m <sup>3</sup>
1362	Indigo carmine; (FD&C blue No 2)	860-22-0	6	66	400	mg/m <sup>3</sup>
1363	Potassium-tert-butoxide; (tert-Butyl alcohol, potassium derivitave)	865-47-4	1.2	13	79	mg/m <sup>3</sup>
1364	Chloroform-d; (Deuterated chloroform)	865-49-6	2	64	3,200	ppm
1365	Diethyl trichloromethylphosphonate	866-23-9	2.4	26	160	mg/m <sup>3</sup>
1366	Potassium citrate	866-84-2	2.1	23	140	mg/m <sup>3</sup>
1367	Tartaric acid, monopotassium salt	868-14-4	87	960	5,800	mg/m <sup>3</sup>
1368	Hydroxyethyl methacrylate, 2-	868-77-9	1.9	21	1,000	mg/m <sup>3</sup>
1369	<b>Dimethyl phosphite</b>	<b>868-85-9</b>	8.6	<b>95</b>	<b>150</b>	mg/m <sup>3</sup>
1370	Methyl 2-pyrrolidinone, 1-; (N-Methylpyrrolidone)	872-50-4	30	32	190	ppm
1371	Pyridinecarboxaldehyde, 4-; (Isonicotinaldehyde)	872-85-5	3.5	38	230	mg/m <sup>3</sup>
1372	Hydrogen potassium phthalate; (Phthalic acid, monopotassium salt; Potassium acid pht	877-24-7	9.6	110	630	mg/m <sup>3</sup>
1373	Acetoxytriphenylstannane	900-95-8	0.69	20	28	mg/m <sup>3</sup>
1374	Methyl lithium	917-54-4	1.2	13	79	mg/m <sup>3</sup>
1375	Aminopropyltriethoxysilane; (3-(Triethoxysilyl)-1-propanamine)	919-30-2	1.9	21	350	mg/m <sup>3</sup>
1376	Demeton-S-methyl	919-86-8	0.45	5	22	mg/m <sup>3</sup>
1377	Methacryloyl chloride	920-46-7	0.013	0.14	0.62	ppm

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
1378	Hexafluoro-2-propanol, 1,1,1,3,3,3-	920-66-1	1.3	15	87	ppm
1379	Bromoethylmagnesium	925-90-6	1.2	13	79	mg/m <sup>3</sup>
1380	Ethyl alcohol-d; (Ethanol-d)	925-93-9	1,800	3,300	15,000	ppm
1381	Dimethyl-1-butanamine, N,N-	927-62-8	130	1,400	8,600	mg/m <sup>3</sup>
1382	Nitric acid, butyl ester; (Butyl nitrate)	928-45-0	40	330	2,000	ppm
1383	Chloro-1-butanol, 4-	928-51-8	1.5	16	110	mg/m <sup>3</sup>
1384	<b>Hexyltrichlorosilane</b>	<b>928-65-4</b>	<b>0.6</b>	<b>7.3</b>	<b>33</b>	ppm
1385	Methyl-2-heptanone, 6-	928-68-7	30	330	2,000	mg/m <sup>3</sup>
1386	Disodium iminodiacetate	928-72-3	3.3	37	220	ppm
1387	Aminoethoxy)ethanol, 2-(2-	929-06-6	9	99	590	mg/m <sup>3</sup>
1388	Oxirane, ethenyl-; (3,4-Epoxy-1-butene)	930-22-3	0.35	3.9	23	ppm
1389	Chlorocyclohexene; (4-Chlorocyclohexene)	930-65-4	30	330	2,000	mg/m <sup>3</sup>
1390	Glycerine carbonate; (4-Hydroxymethyl-1,3-dioxolan-2-one)	931-40-8	30	330	2,000	mg/m <sup>3</sup>
1391	Cyclooctene, cis-	931-87-3	120	1,300	7,900	mg/m <sup>3</sup>
1392	Trichlorophenol, 2,3,6-	933-75-5	1.8	20	120	mg/m <sup>3</sup>
1393	Chloroperoxybenzoic acid, 3-	937-14-4	30	330	2,000	mg/m <sup>3</sup>
1394	Fonofos	944-22-9	0.3	1.3	53	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
1395	Phosfolan	947-02-4	0.82	9	54	mg/m <sup>3</sup>
1396	Mephosfolan	950-10-7	0.82	9	54	mg/m <sup>3</sup>
1397	Methidathion; (O,O-Dimethyl-S-(5-methoxy-1,3,4-thiadiazoliny-3-methyl)dithiophosphat	950-37-8	1.8	20	160	mg/m <sup>3</sup>
1398	Triphenylborane	960-71-4	12	130	790	mg/m <sup>3</sup>
1399	Norbormide	991-42-4	0.35	3.8	190	mg/m <sup>3</sup>
1400	<b>Methyl chlorosilane; (Chloromethylsilane)</b>	<b>993-00-0</b>	<b>1.8</b>	<b>22</b>	<b>100</b>	ppm
1401	Methylphosphonate	993-13-5	30	330	2,000	mg/m <sup>3</sup>
1402	Amyl methyl ether, tert-; (TAME)	994-05-8	60	120	170	ppm
1403	Dimethylisopropylamine, N,N-	996-35-0	11	120	710	mg/m <sup>3</sup>
1404	<b>Triethoxysilane</b>	<b>998-30-1</b>	<b>0.5</b>	<b>4</b>	<b>10</b>	ppm
1405	Tributylphosphine	998-40-3	0.27	3	18	ppm
1406	Chlormequat chloride; (Choline dichloride)	999-81-5	0.64	7	65	mg/m <sup>3</sup>
1407	Hexamethyldisilazane	999-97-3	2.5	28	170	mg/m <sup>3</sup>
1408	Nitric acid, pentyl ester; (Amyl nitrate)	1002-16-0	1.5	16	98	ppm
1409	Chlorodecane, 1-	1002-69-3	17	180	1,100	ppm
1410	Pentadecanoic acid	1002-84-2	0.018	0.2	1.2	ppm
1411	Tetrahydro-2,5-dimethyl furan	1003-38-9	12	130	790	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
1412	Heptachlor epoxide; (Epoxyheptachlor)	1024-57-3	0.15	0.5	3	mg/m <sup>3</sup>
1413	Triamiphos	1031-47-6	0.06	0.66	4	mg/m <sup>3</sup>
1414	Chromic acetate; (Chromium(III) acetate)	1066-30-4	6.6	78	470	mg/m <sup>3</sup>
1415	Ammonium bicarbonate	1066-33-7	4.7	52	310	mg/m <sup>3</sup>
1416	<b>Dimethylchlorosilane; (Chlorodimethylsilane)</b>	<b>1066-35-9</b>	<b>1.8</b>	<b>22</b>	<b>100</b>	ppm
1417	Trimethylsilanol	1066-40-6	2.3	25	150	ppm
1418	Trimethyltin chloride; (Chlorotrimethylstannane)	1066-45-1	0.34	20	120	mg/m <sup>3</sup>
1419	Diacetoxydibutyl stannane	1067-33-0	0.59	6.5	39	mg/m <sup>3</sup>
1420	Isopropylmagnesium chloride; (Chloro(1-methylethyl)magnesium)	1068-55-9	1.2	13	79	mg/m <sup>3</sup>
1421	Sodium hexamethyldisilazane; (Sodium bis(trimethylsilyl)amide)	1070-89-9	30	330	2,000	mg/m <sup>3</sup>
1422	Dimethylheptane, 2,2-	1071-26-7	230	385	5,000	ppm
1423	Methylaziridine, 1-	1072-44-2	0.058	0.64	3.9	ppm
1424	Benzene-d <sub>6</sub> ; (Deuterated benzene)	1076-43-3	52	800	4,000	ppm
1425	Ammonium carbamate; (Carbamic acid, ammonium salt)	1111-78-0	0.23	2.6	15	mg/m <sup>3</sup>
1426	Dimethyldimethoxysilane	1112-39-6	14	150	920	mg/m <sup>3</sup>
1427	Diammonium oxalate; (Ethanedioic acid, diammonium salt)	1113-38-8	30	330	2,000	mg/m <sup>3</sup>
1428	Vinyl sulfoxide	1115-15-7	0.4	4.4	26	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
1429	Trioctylamine; (N,N-Dioctyl-1-octanamine)	1116-76-3	6	66	400	mg/m <sup>3</sup>
1430	Tetramethyl-3,5-heptanedione, 2,2,6,6-; (Dipivaloylmethane)	1118-71-4	30	330	2,000	mg/m <sup>3</sup>
1431	Tetradecyltrimethylammonium bromide	1119-97-7	12	130	770	mg/m <sup>3</sup>
1432	Undecane	1120-21-4	2.3	26	150	ppm
1433	Propane sultone, 1,3-	1120-71-4	1.6	18	110	mg/m <sup>3</sup>
1434	Nitrocyclohexane	1122-60-7	0.14	1.5	9	mg/m <sup>3</sup>
1435	Nitropyridine-N-oxide, 4-; (Pyridine, 4-nitro, 1-oxide)	1124-33-0	7.3	80	1,600	mg/m <sup>3</sup>
1436	Metolcarb; (Methylcarbamic acid m-tolyl ester)	1129-41-5	0.44	4.8	21	mg/m <sup>3</sup>
1437	Cyclohexylamino)-1-propanesulfonic acid, 3-; (CAPS)	1135-40-6	6	66	400	mg/m <sup>3</sup>
1438	Tin(IV) isopropoxide	1184-61-8	0.7	7.7	46	mg/m <sup>3</sup>
1439	Tris hydrochloride; (Trizma hydrochloride; Tris(hydroxymethyl) aminomethane hydrochloride)	1185-53-1	12	130	790	mg/m <sup>3</sup>
1440	Methyltrimethoxysilane	1185-55-3	38	410	2,500	mg/m <sup>3</sup>
1441	Diisobutylaluminum hydride; (Diisobutylhydroaluminum)	1191-15-7	5.4	54	330	ppm
1442	Trichloro-2-nitrosobenzene, 1,3,5-	1196-13-0	2.3	25	150	mg/m <sup>3</sup>
1443	Benzyl aminopurine, 6-; (6-Benzyladenine)	1214-39-7	3.5	38	230	mg/m <sup>3</sup>
1444	Ethidium bromide; (2,7-Diamino-10-ethyl-9-phenylphenanthridinium bromide)	1239-45-8	0.16	1.8	11	mg/m <sup>3</sup>
1445	Aluminum carbide	1299-86-1	4	43	260	mg/m <sup>3</sup>

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 Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
1446	Xylidines, mixed isomers; includes 2,6-xylidine (87-62-7) and 2,3-xylidine (87-59-2)	1300-73-8	1.5	25	150	ppm
1447	Sodium aluminate; (Aluminum sodium dioxide)	1302-42-7	18	200	1,200	mg/m <sup>3</sup>
1448	Lithium aluminum silicate; (Petalite)	1302-66-5	34	360	2,200	mg/m <sup>3</sup>
1449	Aluminum(III) silicate (2:1); (Kyanite; Oil-dri)	1302-76-7	3	33	200	mg/m <sup>3</sup>
1450	Arsenic pentoxide	1303-28-2	0.73	8	150	mg/m <sup>3</sup>
1451	Boron oxide	1303-86-2	30	100	620	mg/m <sup>3</sup>
1452	Lithium tetraborate pentahydrate	1303-94-2	6.6	72	430	mg/m <sup>3</sup>
1453	Sodium borate decahydrate (Borax)	1303-96-4	6	190	1,100	mg/m <sup>3</sup>
1454	Barium oxide	1304-28-5	1.7	200	1,200	mg/m <sup>3</sup>
1455	Barium dioxide; (Barium peroxide)	1304-29-6	1.8	230	1,400	mg/m <sup>3</sup>
1456	Beryllium oxide	1304-56-9	0.0063	0.069	0.28	mg/m <sup>3</sup>
1457	Bismuth oxide	1304-76-3	15	170	990	mg/m <sup>3</sup>
1458	Calcium hydroxide	1305-62-0	15	240	1,500	mg/m <sup>3</sup>
1459	Calcium oxide	1305-78-8	6	110	660	mg/m <sup>3</sup>
1460	<b>Calcium phosphide</b>	<b>1305-99-3</b>	0.091	<b>1.0</b>	<b>1.8</b>	ppm
1461	Hydroxyapatite; (Calcium hydroxyapatite)	1306-06-5	190	2,100	12,000	mg/m <sup>3</sup>
1462	Cadmium oxide	1306-19-0	0.11	0.87	5.4	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
1463	Cadmium sulfide	1306-23-6	0.13	0.98	6	mg/m <sup>3</sup>
1464	Ceric oxide	1306-38-3	3	33	200	mg/m <sup>3</sup>
1465	Cobalt(II) oxide	1307-96-6	0.076	4.2	25	mg/m <sup>3</sup>
1466	Cobalt oxide; (Cobaltic-cobaltous oxide)	1308-06-1	0.082	4.5	27	mg/m <sup>3</sup>
1467	Chromic(III) hydroxide; (Chromic acid (H <sub>3</sub> CrO <sub>3</sub> ); Chromium trihydroxide)	1308-14-1	3	33	200	mg/m <sup>3</sup>
1468	Chromite; (Chromite (mineral))	1308-31-2	3.2	36	220	mg/m <sup>3</sup>
1469	Chromic oxide; (Chromium(III) oxide; Chromium sesquioxide)	1308-38-9	2.2	24	140	mg/m <sup>3</sup>
1470	Dysprosium oxide; (Dysprosium(III) oxide)	1308-87-8	15	170	990	mg/m <sup>3</sup>
1471	Europium oxide	1308-96-9	15	170	990	mg/m <sup>3</sup>
1472	Ferric hydroxide; (Iron(III) hydroxide)	1309-33-7	30	330	2,000	mg/m <sup>3</sup>
1473	Iron oxide; (Ferric oxide)	1309-37-1	15	360	2,200	mg/m <sup>3</sup>
1474	Magnesium hydroxide	1309-42-8	26	280	1,700	mg/m <sup>3</sup>
1475	Magnesium oxide	1309-48-4	30	120	730	mg/m <sup>3</sup>
1476	Lead dioxide	1309-60-0	0.17	140	810	mg/m <sup>3</sup>
1477	Antimony trioxide	1309-64-4	1.8	16	96	mg/m <sup>3</sup>
1478	Germanium oxide	1310-53-8	3.8	41	250	mg/m <sup>3</sup>
1479	Potassium hydroxide	1310-58-3	0.18	2	54	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
1480	Lithium hydroxide	1310-65-2	0.091	1	42	mg/m <sup>3</sup>
1481	Lithium hydroxide monohydrate	1310-66-3	0.16	1.8	74	mg/m <sup>3</sup>
1482	<b>Sodium hydroxide</b>	<b>1310-73-2</b>	<b>0.5</b>	<b>5</b>	<b>50</b>	mg/m <sup>3</sup>
1483	Rubidium hydroxide	1310-82-3	1.8	19	120	mg/m <sup>3</sup>
1484	Indium(III) oxide	1312-43-2	0.36	4.8	29	mg/m <sup>3</sup>
1485	Potassium silicate; (Silicic acid, potassium salt)	1312-76-1	30	330	2,000	mg/m <sup>3</sup>
1486	Lanthanum oxide	1312-81-8	4	44	270	mg/m <sup>3</sup>
1487	Manganese dioxide	1313-13-9	4.7	7.9	690	mg/m <sup>3</sup>
1488	Molybdenum trioxide (Molybdenum(VI) oxide)	1313-27-5	2.3	43	260	mg/m <sup>3</sup>
1489	Disodium monoxide; (Disodium oxide; Sodium oxide)	1313-59-3	0.5	5	50	mg/m <sup>3</sup>
1490	Sodium peroxide	1313-60-6	0.5	5	50	mg/m <sup>3</sup>
1491	Sodium sulfide	1313-82-2	0.62	6.9	41	mg/m <sup>3</sup>
1492	Sodium sulfide nonahydrate	1313-84-4	0.17	1.9	11	mg/m <sup>3</sup>
1493	Niobium pentoxide; (Niobium(V) oxide)	1313-96-8	6.6	72	430	mg/m <sup>3</sup>
1494	Neodymium(III) oxide	1313-97-9	15	170	990	mg/m <sup>3</sup>
1495	Nickel oxide; (Nickel(II) oxide)	1313-99-1	0.76	220	1,300	mg/m <sup>3</sup>
1496	Palladium oxide	1314-08-5	15	160	970	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
1497	Thallium oxide; (Thallos oxide)	1314-12-1	0.062	3.5	21	mg/m <sup>3</sup>
1498	Zinc oxide	1314-13-2	10	15	2,500	mg/m <sup>3</sup>
1499	Thorium oxide; (Thorium dioxide)	1314-20-1	30	330	2,000	mg/m <sup>3</sup>
1500	Zirconium oxide	1314-23-4	14	110	680	mg/m <sup>3</sup>
1501	Phosphorus trioxide	1314-24-5	1.2	13	79	mg/m <sup>3</sup>
1502	Thallium(III) oxide; (Thallium sesquioxide; Thallic oxide)	1314-32-5	0.18	2	8.7	mg/m <sup>3</sup>
1503	Vanadium trioxide	1314-34-7	0.0067	0.074	51	mg/m <sup>3</sup>
1504	Tungsten trioxide; (Tungsten(VI) oxide)	1314-35-8	13	140	860	mg/m <sup>3</sup>
1505	Yttrium trioxide	1314-36-9	3.8	43	260	mg/m <sup>3</sup>
1506	Ytterbium oxide	1314-37-0	30	330	2,000	mg/m <sup>3</sup>
1507	Lead tetroxide	1314-41-6	0.17	130	770	mg/m <sup>3</sup>
1508	<b>Phosphorus pentoxide</b>	<b>1314-56-3</b>	<b>1</b>	<b>10</b>	<b>50</b>	mg/m <sup>3</sup>
1509	Tantalum(V) oxide	1314-61-0	12	260	1,600	mg/m <sup>3</sup>
1510	Vanadium pentoxide; (Vanadium(V) oxide)	1314-62-1	0.64	7	70	mg/m <sup>3</sup>
1511	Rhenium oxide; (Rhenium(VII) oxide)	1314-68-7	3	33	200	mg/m <sup>3</sup>
1512	Phosphorus pentasulfide	1314-80-3	3	130	750	mg/m <sup>3</sup>
1513	<b>Zinc phosphide</b>	<b>1314-84-7</b>	0.091	<b>1.0</b>	<b>1.8</b>	ppm

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
1514	Lead sulfide	1314-87-0	0.17	140	810	mg/m <sup>3</sup>
1515	Zinc sulfide	1314-98-3	8.9	99	590	mg/m <sup>3</sup>
1516	Antimony pentasulfide	1315-04-4	2.5	22	130	mg/m <sup>3</sup>
1517	Molybdenum(IV) sulfide	1317-33-5	50	260	1,600	mg/m <sup>3</sup>
1518	Manganese(III) oxide	1317-34-6	4.3	7.2	43	mg/m <sup>3</sup>
1519	Manganese oxide; (Manganese tetroxide)	1317-35-7	4.2	6.9	41	mg/m <sup>3</sup>
1520	Lead oxide; (Lead monoxide)	1317-36-8	0.16	130	750	mg/m <sup>3</sup>
1521	Iron sulfide	1317-37-9	30	330	2,000	mg/m <sup>3</sup>
1522	Cupric oxide	1317-38-0	0.75	11	93	mg/m <sup>3</sup>
1523	Copper oxide; (Copper(I) oxide)	1317-39-1	0.68	16	93	mg/m <sup>3</sup>
1524	Copper(II) sulfide	1317-40-4	4.5	50	300	mg/m <sup>3</sup>
1525	Iron(II,III) oxide; (Ferrosferric oxide)	1317-61-9	21	230	1,400	mg/m <sup>3</sup>
1526	Vermiculite, exfoliated	1318-00-9	32	360	2,200	mg/m <sup>3</sup>
1527	Cresols, all isomers; (includes 95-48-7,108-39-4,106-44-5)	1319-77-3	14	25	250	ppm
1528	Dichlorotetrafluoroethane	1320-37-2	140	1,600	9,500	ppm
1529	Tetrahydrodimethylfuran	1320-94-1	12	130	790	mg/m <sup>3</sup>
1530	Trichloronaphthalene	1321-65-9	15	170	990	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
1531	Diethylenylbenzene; (Vinylstyrene) (m-Divinylbenzene, 108-57-6)	1321-74-0	30	58	350	ppm
1532	Potassium aluminosilicate	1327-44-2	35	400	2,400	mg/m <sup>3</sup>
1533	<b>Arsenic trioxide</b>	<b>1327-53-3</b>	0.27	<b>3.0</b>	<b>9.1</b>	mg/m <sup>3</sup>
1534	<b>Xylenes</b>	<b>1330-20-7</b>	<b>130</b>	<b>920</b>	<b>2,500</b>	ppm
1535	Sodium borate; (Disodium tetraborate)	1330-43-4	6	88	530	mg/m <sup>3</sup>
1536	Methylcyclohexanone	1331-22-2	15	170	1,000	ppm
1537	Dichloroethylbenzene; (Ethylchlorobenzene)	1331-29-9	17	180	1,100	mg/m <sup>3</sup>
1538	Asbestos, includes: (Amosite, 12172-73-5, Ascarite, 81133-20-2, Chrysotile, 1332-21-4)	1332-21-4	0.05	0.55	3.3	mg/m <sup>3</sup>
1539	Tin(II) oxide	1332-29-2	7.6	85	510	mg/m <sup>3</sup>
1540	Hydrogen	1333-74-0	65,000	2.30E+05	4.00E+05	ppm
1541	Chromic trioxide; (Chromium(VI) oxide (1:3))	1333-82-0	0.29	5	30	mg/m <sup>3</sup>
1542	Sodium bifluoride; (Sodium hydrogen fluoride)	1333-83-1	12	140	820	mg/m <sup>3</sup>
1543	Aluminum oxide hydrate	1333-84-2	15	130	780	mg/m <sup>3</sup>
1544	Carbon black	1333-86-4	9	99	590	mg/m <sup>3</sup>
1545	Lead acetate, basic; (Lead subacetate)	1335-32-6	5.4	59	360	mg/m <sup>3</sup>
1546	Hexachloronaphthalene	1335-87-1	0.6	6.6	40	mg/m <sup>3</sup>
1547	Ammonium hydroxide	1336-21-6	61	330	2,300	ppm

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
1548	Polychlorinated biphenyl; (Aroclor; PCBs)	1336-36-3	13	140	840	mg/m <sup>3</sup>
1549	Methyl ethyl ketone peroxide	1338-23-4	1.8	20	22	ppm
1550	Ammonium hydrogen fluoride; (Ammonium bifluoride)	1341-49-7	11	130	750	mg/m <sup>3</sup>
1551	Magnesium silicate; (Florisil)	1343-88-0	120	1,300	7,900	mg/m <sup>3</sup>
1552	Magnesium silicate hydrate	1343-90-4	120	1,300	7,900	mg/m <sup>3</sup>
1553	Silica gel dessicant	1343-98-2	18	95	570	mg/m <sup>3</sup>
1554	Silicic acid, aluminum calcium sodium salt	1344-01-0	30	330	2,000	mg/m <sup>3</sup>
1555	Silicic acid, sodium salt; (Sodium silicate)	1344-09-8	5.9	65	390	mg/m <sup>3</sup>
1556	Aluminum oxide; (Alumina)	1344-28-1	15	170	990	mg/m <sup>3</sup>
1557	Manganous oxide; (Manganese(II) oxide)	1344-43-0	3.9	6.5	39	mg/m <sup>3</sup>
1558	<b>Uranium dioxide; (Uranium(IV) oxide)</b>	<b>1344-57-6</b>	0.68	<b>10</b>	<b>30</b>	mg/m <sup>3</sup>
1559	<b>Uranium trioxide</b>	<b>1344-58-7</b>	0.045	<b>0.5</b>	<b>3</b>	mg/m <sup>3</sup>
1560	<b>Uranium oxide; (Triuranium octaoxide)</b>	<b>1344-59-8</b>	0.71	<b>10</b>	<b>50</b>	mg/m <sup>3</sup>
1561	Cerium trioxide	1345-13-7	1.6	17	100	mg/m <sup>3</sup>
1562	Iron(II) oxide; (Ferrous oxide)	1345-25-1	45	500	3,000	mg/m <sup>3</sup>
1563	Abrin	1393-62-0	6.60E-07	7.20E-06	4.30E-05	mg/m <sup>3</sup>
1564	Antimycin A	1397-94-0	0.16	1.8	5.5	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
1565	Dinoterb; (2-(1,1-Dimethylethyl)-4,6-dinitrophenol)	1420-07-1	0.19	2	12	mg/m <sup>3</sup>
1566	Diisopropyl methylphosphonate	1445-75-6	2.7	30	180	mg/m <sup>3</sup>
1567	Chlorosarin; (o-Isopropyl methylphosphonochloridate)	1445-76-7	4.80E-04	0.006	0.022	ppm
1568	Trimethylgallium	1445-79-0	1.2	13	79	mg/m <sup>3</sup>
1569	Methyl alcohol-d	1455-13-6	530	2,100	7,200	ppm
1570	Bioxirane, 2,2'-; (1,2:3,4-Diepoxybutane)	1464-53-5	0.091	1	4	ppm
1571	Imidazole hydrochloride	1467-16-9	12	130	790	mg/m <sup>3</sup>
1572	Trifluoromethanesulfonic acid; (Triflic acid)	1493-13-6	2	22	130	ppm
1573	Fluoro-2-nitrobenzene, 1-; (o-Fluoronitrobenzene)	1493-27-2	12	130	790	mg/m <sup>3</sup>
1574	<b>Ethylphosphorodichloridate</b>	<b>1498-51-7</b>	0.018	<b>0.20</b>	<b>0.60</b>	ppm
1575	Triphenylethoxysilane	1516-80-9	30	330	2,000	mg/m <sup>3</sup>
1576	Tetracyanoquinodimethane	1518-16-7	0.18	2	12	mg/m <sup>3</sup>
1577	Fluoro-6-nitrophenol, 2-	1526-17-6	120	1,300	7,900	mg/m <sup>3</sup>
1578	Pivalic anhydride; (Trimethylacetic anhydride)	1538-75-6	30	330	2,000	mg/m <sup>3</sup>
1579	<b>Chloromethyl(trichloro)silane</b>	<b>1558-25-4</b>	<b>0.60</b>	<b>7.3</b>	<b>33</b>	ppm
1580	Ethylhexyloxy)ethanol, 2-(2-	1559-35-9	9.2	100	610	mg/m <sup>3</sup>
1581	Carbofuran	1563-66-2	0.3	0.43	3.7	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
1582	Trifluralin; (2,6-Dinitro-N,N-dipropyl-4-(trifluoromethyl) benzenamine)	1582-09-8	1.2	13	78	mg/m <sup>3</sup>
1583	Vinylbenzylchloride; (4-Vinylbenzyl chloride)	1592-20-7	1.2	13	79	mg/m <sup>3</sup>
1584	Mercuric acetate	1600-27-7	0.048	0.064	3.2	mg/m <sup>3</sup>
1585	Diethyl pyrocarbonate	1609-47-8	4.1	45	270	mg/m <sup>3</sup>
1586	Butyl isocyanate, tert-	1609-86-5	0.0099	0.11	0.65	ppm
1587	Diethylaminoacetone	1620-14-0	0.12	1.3	7.8	ppm
1588	Chloroethanesulfonyl chloride, 2-	1622-32-8	0.23	2.5	19	mg/m <sup>3</sup>
1589	Strontium carbonate	1633-05-2	71	780	4,700	mg/m <sup>3</sup>
1590	<b>Methyl tert-butyl ether; (MTBE)</b>	<b>1634-04-4</b>	<b>50</b>	<b>570</b>	<b>5,300</b>	ppm
1591	Butanaminium, N,N,N-tributyl-1-, bromide; (Tetrabutylammonium bromide)	1643-19-2	30	330	2,000	mg/m <sup>3</sup>
1592	Dichloromethane-d2	1665-00-5	200	560	6,900	ppm
1593	Bisphenol A diglycidyl ether	1675-54-3	39	430	2,600	mg/m <sup>3</sup>
1594	Butylcyclohexane; (1-Cyclohexylbutane)	1678-93-9	21	230	1,400	ppm
1595	Tetrahydrofuran-d8	1693-74-9	100	500	5,000	ppm
1596	Butyl acetoacetate, tert-	1694-31-1	15	170	990	mg/m <sup>3</sup>
1597	Isopropyl nitrate	1712-64-7	15	50	300	ppm
1598	Bromopyrene, 3-	1714-29-0	30	330	2,000	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
1599	<b>HCFC-141b; (Dichloro-1-fluoroethane, 1,1-, Freon 141)</b>	<b>1717-00-6</b>	<b>1,000</b>	<b>1,700</b>	<b>3,000</b>	ppm
1600	<b>Diethyldichlorosilane</b>	<b>1719-53-5</b>	<b>0.90</b>	<b>11</b>	<b>50</b>	ppm
1601	Allylmagnesium bromide	1730-25-2	30	330	2,000	mg/m <sup>3</sup>
1602	Dimethylimidazole, 1,2-	1739-84-0	2.2	24	140	mg/m <sup>3</sup>
1603	TCDD; (2,3,7,8-Tetrachlorodibenzo-p-dioxin; Dioxin)	1746-01-6	1.30E-04	0.0014	0.0085	mg/m <sup>3</sup>
1604	Acetone thiosemicarbazide	1752-30-3	9.1	100	600	mg/m <sup>3</sup>
1605	Trimethoxysilylpropyl ethylenediamine, N-(3-	1760-24-3	23	250	1,500	mg/m <sup>3</sup>
1606	Ammonium thiocyanate	1762-95-4	2.3	25	150	mg/m <sup>3</sup>
1607	<b>Phosgene oxime</b>	<b>1794-86-1</b>	<b>0.028</b>	<b>0.083</b>	<b>13</b>	mg/m <sup>3</sup>
1608	Dibutyl phosphite	1809-19-4	9.6	110	630	mg/m <sup>3</sup>
1609	Trimethylsilylmethylithium	1822-00-0	1.2	13	79	mg/m <sup>3</sup>
1610	Methoxytrimethylsilane	1825-61-2	12	130	800	ppm
1611	Vinylmagnesium bromide	1826-67-1	1.2	13	79	mg/m <sup>3</sup>
1612	Ethyl methylphosphonic acid; (EMPA; VX acid; Ethyl methyl phosphonate; Ethyl methyl	1832-53-7	10	110	1,600	mg/m <sup>3</sup>
1613	Phosphonic acid, methyl-, mono(1-methylethyl) ester; (Isopropyl methylphosphonic acid	1832-54-8	21	230	1,400	mg/m <sup>3</sup>
1614	Formic acid, 2-propenyl ester; (Allyl formate)	1838-59-1	0.65	7.2	43	mg/m <sup>3</sup>
1615	Ammonium benzoate	1863-63-4	2.5	27	160	mg/m <sup>3</sup>

Compounds with unknown CASRN are issued a "z-number" for identification purposes.  
 Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.



**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
1616	<b>Phenyl Chloroformate; (Carbonochloridic acid, phenyl ester)</b>	<b>1885-14-9</b>	0.017	<b>0.19</b>	<b>0.57</b>	ppm
1617	Hexachloropropene	1888-71-7	0.089	0.98	5.9	ppm
1618	Dithiodiethanol, 2,2-; (Dithiodiglycol)	1892-29-1	0.52	5.7	34	mg/m <sup>3</sup>
1619	Chlorothalonil; (Tetrachloroisophthalonitrile)	1897-45-6	0.13	1.4	8.6	mg/m <sup>3</sup>
1620	Paraquat dichloride	1910-42-5	0.15	1.6	9.6	mg/m <sup>3</sup>
1621	Nitrapyrin; (2-Chloro-6-(trichloromethyl)pyridine)	1929-82-4	20	31	190	mg/m <sup>3</sup>
1622	Potassium glycolate	1932-50-9	6	65	410	ppm
1623	Cyclohexyl methyl phosphonic acid	1932-60-1	30	330	2,000	mg/m <sup>3</sup>
1624	Tetrabutylammonium nitrate	1941-27-1	0.033	0.36	2.2	mg/m <sup>3</sup>
1625	Chloroxuron	1982-47-4	0.91	10	68	mg/m <sup>3</sup>
1626	Ethanediybis(N-(carboxymethyl)glycine), N,N'-1,2-, dipotassium salt	2001-94-7	1.5	16	97	mg/m <sup>3</sup>
1627	Valinomycin	2001-95-8	0.23	2.5	15	mg/m <sup>3</sup>
1628	Methyltriethoxysilane	2031-67-6	3.3	36	220	ppm
1629	Bromoacetaldehyde diethyl acetal	2032-35-1	12	130	790	mg/m <sup>3</sup>
1630	Methiocarb; (Mercaptodimethur)	2032-65-7	1.4	15	90	mg/m <sup>3</sup>
1631	Toluene-d8; (Deuterated toluene)	2037-26-5	67	560	3,700	ppm
1632	Thorium oxalate	2040-52-0	30	330	2,000	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
1633	Di-n-amylamine	2050-92-2	0.041	0.45	2.7	ppm
1634	Butyl levulinate	2052-15-5	15	170	990	mg/m <sup>3</sup>
1635	Tetrabutylammonium hydroxide	2052-49-5	1.2	13	79	mg/m <sup>3</sup>
1636	Paraquat methosulfate; (Paraquat dimethyl sulphate)	2074-50-2	0.014	0.15	20	mg/m <sup>3</sup>
1637	Phenylsilatrane	2097-19-0	0.091	1	6	mg/m <sup>3</sup>
1638	EPN; (O-Ethyl-O-(4-nitrophenyl) phenylthiophosphonate)	2104-64-5	0.45	5	50	mg/m <sup>3</sup>
1639	Dichlorocyclohexane, 1,1-	2108-92-1	52	180	1,000	ppm
1640	Aldrithiol-2; (2,2'-Dithiodipyridine)	2127-03-9	30	330	2,000	mg/m <sup>3</sup>
1641	Dichlorohexane, 1,2-	2162-92-7	1.9	21	120	ppm
1642	Dichlorooctane, 1,8-	2162-99-4	30	330	2,000	mg/m <sup>3</sup>
1643	Dichlorohexane, 1,6-	2163-00-0	1.9	21	120	ppm
1644	Acetonitrile-d3	2206-26-0	13	50	150	ppm
1645	Methyl sulfoxide-d6; (Dimethyl-d6-sulfoxide)	2206-27-1	150	290	1,800	ppm
1646	Ethylheptane, 4-	2216-32-2	230	385	5,000	ppm
1647	Cadmium stearate; (Octadecanoic acid, cadmium salt)	2223-93-0	0.61	4.6	28	mg/m <sup>3</sup>
1648	Nickel(2+) stearate	2223-95-2	32	360	2,200	mg/m <sup>3</sup>
1649	Thiocarbazide; (Thiocarbohydrazide)	2231-57-4	9.1	100	600	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
1650	Octachloronaphthalene	2234-13-1	0.3	3.3	20	mg/m <sup>3</sup>
1651	Diglycidyl ether	2238-07-5	0.77	8.5	25	ppm
1652	Nonanenitrile; (1-Octyl cyanide)	2243-27-8	5.9	8	47	ppm
1653	Butanol, aluminum salt, 2-	2269-22-9	55	590	3,600	mg/m <sup>3</sup>
1654	Diacetoxyscirpenol; (Anguidin; mycotoxin)	2270-40-8	9.90E-04	0.011	0.34	mg/m <sup>3</sup>
1655	Prothoate; (Isopropyl diethylthiophosphorylacetamide)	2275-18-5	0.15	1.7	10	mg/m <sup>3</sup>
1656	Iotalamic acid	2276-90-6	120	1,300	7,800	mg/m <sup>3</sup>
1657	Trifluoromethyl iodide; (Iodotrifluoromethane)	2314-97-8	6.5	72	430	ppm
1658	Spiro(isobenzofuran-1(3H),9'-(9H)xanthen)-3-one, 3',6'-dihydroxy-; (Fluorescein)	2321-07-5	20	220	1,300	mg/m <sup>3</sup>
1659	Ethoxyethyl methacrylate, 2-	2370-63-0	120	1,300	7,900	mg/m <sup>3</sup>
1660	Mirex; (Perchloropentacyclodecane)	2385-85-5	6.3	69	410	mg/m <sup>3</sup>
1661	Ethylmagnesium chloride; (Chloroethyl magnesium)	2386-64-3	30	330	2,000	mg/m <sup>3</sup>
1662	Bromoanisole, 3-; (1-Bromo-3-methoxybenzene)	2398-37-0	30	330	2,000	mg/m <sup>3</sup>
1663	Potassium nitrilotriacetate; (Potassium NTA)	2399-85-1	3.7	40	240	mg/m <sup>3</sup>
1664	Magnesium ethoxide	2414-98-4	30	330	2,000	mg/m <sup>3</sup>
1665	Carbonyldiphthalic anhydride, 4,4'-	2421-28-5	30	330	2,000	mg/m <sup>3</sup>
1666	Bis(2,3-epoxypropoxy) butane, 1,4-	2425-79-8	16	170	220	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
1667	Butyl glycidyl ether, n-	2426-08-6	9	580	3,500	ppm
1668	Auramine; (4,4'-(Imidocarbonyl)bis(N,N-dimethylamine) monohydrochloride)	2465-27-2	0.81	8.9	53	mg/m <sup>3</sup>
1669	<b>Trimethoxysilane</b>	<b>2487-90-3</b>	<b>0.5</b>	<b>0.83</b>	<b>2.5</b>	ppm
1670	Oxydisulfoton	2497-07-6	0.32	3.5	21	mg/m <sup>3</sup>
1671	Dimethyl phosphorochloridothioate	2524-03-0	0.29	3.2	15	mg/m <sup>3</sup>
1672	Diphenyl chlorophosphate; (Diphenylphosphoryl chloride)	2524-64-3	1.2	13	79	mg/m <sup>3</sup>
1673	Glycidoxypropyltrimethoxysilane; (3-(2,3-Epoxypropoxy) propyltrimethoxysilane)	2530-83-8	9.3	100	230	mg/m <sup>3</sup>
1674	Trimethoxysilylpropyl methacrylate, 3-; (Silane A-174)	2530-85-0	71	780	4,700	mg/m <sup>3</sup>
1675	Chloropropyl)trimethoxysilane, 3-; (3-(Trimethoxysilyl)propyl chloride)	2530-87-2	0.64	7	160	ppm
1676	Formothion	2540-82-1	2.1	24	140	mg/m <sup>3</sup>
1677	Sulfur hexafluoride	2551-62-4	3,000	33,000	2.00E+05	ppm
1678	Nitrocyclohexene, 1-; (1-Nitrocyclohex-1-ene)	2562-37-0	2.3	25	150	ppm
1679	Pentadecylamine	2570-26-5	0.18	2	40	mg/m <sup>3</sup>
1680	Sulfonylbis-ethanol, 2,2'-	2580-77-0	1.2	13	79	mg/m <sup>3</sup>
1681	Methyl demeton methyl; (Phosphorothioic acid, O,O-dimethyl-S-(2-methylthio)ethyl ester)	2587-90-8	1.8	20	120	mg/m <sup>3</sup>
1682	Formylpiperidine, 1-	2591-86-8	0.58	6.3	38	ppm
1683	Hydroxybenzotriazole, 1-; (1-Hydroxybenzotriazole hydrate)	2592-95-2	20	220	1,300	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
1684	Chloroethylchloromethylsulfide, 2-	2625-76-5	0.01	0.02	0.32	ppm
1685	Promecarb; (m-Cym-5-yl methylcarbamate)	2631-37-0	1.5	16	96	mg/m <sup>3</sup>
1686	Cyanophos	2636-26-2	2.3	25	130	mg/m <sup>3</sup>
1687	Azinphos ethyl; (Ethyl guthion)	2642-71-9	0.35	3.9	17	mg/m <sup>3</sup>
1688	Hydrazine hydrochloride; (Hydrazine monochloride)	2644-70-4	0.33	3.7	22	mg/m <sup>3</sup>
1689	Brilliant blue; (Acid blue 9)	2650-18-2	30	330	2,000	mg/m <sup>3</sup>
1690	Methylphosphonothioic acid, O-(4-nitrophenyl) O-phenyl ester	2665-30-7	0.73	8	48	mg/m <sup>3</sup>
1691	Dimethylacrylamide, N,N-	2680-03-7	0.15	1.7	50	mg/m <sup>3</sup>
1692	Cyclotetramethylene tetranitramine; (HMX)	2691-41-0	19	210	1,300	mg/m <sup>3</sup>
1693	Nitrosyl chloride	2696-92-6	0.014	0.15	0.9	ppm
1694	<b>Chlorobenzylidene malononitrile, o-; (Tear Gas)</b>	<b>2698-41-1</b>	<b>0.005</b>	<b>0.083</b>	<b>11</b>	mg/m <sup>3</sup>
1695	<b>Sulfuryl fluoride</b>	<b>2699-79-8</b>	10	<b>21</b>	<b>64</b>	ppm
1696	Methylphosphonothioic acid-, O-ethyl O-(4-(methylthio)phenyl) ester	2703-13-1	0.91	10	60	mg/m <sup>3</sup>
1697	Thallos malonate	2757-18-8	0.18	2	25	mg/m <sup>3</sup>
1698	Trimethyltriheptylamine, 6,6',6"-; (Triisooctylamine)	2757-28-0	4.3	48	290	mg/m <sup>3</sup>
1699	Muscimol; (5-Aminomethyl-3-isoxazole)	2763-96-4	1.5	17	100	mg/m <sup>3</sup>
1700	Trimethoxyvinylsilane; (Vinyltrimethoxysilane; Silane, trimethoxyvinyl-)	2768-02-7	9.5	100	120	ppm

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
1701	Endothion	2778-04-3	1.5	17	100	mg/m <sup>3</sup>
1702	Ethylene glycol monopropyl ether; (Propyl cellosolve; Ektasolve EP)	2807-30-9	2.2	24	140	ppm
1703	Hydroxyethylidene-1,1-diphosphonic acid, 1-; (Hydroxyethylidine bisphosphonic acid, 1-	2809-21-4	7.2	79	480	mg/m <sup>3</sup>
1704	Sodium glycolate; (Sodium hydroxyacetate)	2836-32-0	5.1	56	350	ppm
1705	<b>Chloro-1,1,1,2-tetrafluoroethane, 2-</b>	<b>2837-89-0</b>	<b>1,000</b>	<b>5,000</b>	<b>10,000</b>	ppm
1706	Methyldecane, 4-	2847-72-5	6.6	73	440	ppm
1707	Amino-2-methyl-2-propanol, 1-	2854-16-2	4.3	47	280	mg/m <sup>3</sup>
1708	Bromotrimethylsilane; (Trimethylsilyl bromide)	2857-97-8	1.2	13	79	mg/m <sup>3</sup>
1709	Anthracenedisulfonic acid, 4,8-diamino-9,10-dihydro-1,5-dihydroxy-9,10-dioxo, disodium	2861-02-1	4.8	52	310	mg/m <sup>3</sup>
1710	Chlorpyrifos; (Dursban)	2921-88-2	0.6	15	44	mg/m <sup>3</sup>
1711	<b>Allyl chloroformate</b>	<b>2937-50-0</b>	0.064	<b>0.70</b>	<b>2.1</b>	ppm
1712	<b>Ethylchlorothioformate</b>	<b>2941-64-2</b>	0.024	<b>0.26</b>	<b>0.79</b>	ppm
1713	Phenyltrimethoxysilane	2996-92-1	0.59	6.5	39	mg/m <sup>3</sup>
1714	Methylethyl hydroperoxide, 1-; (Isopropyl hydroperoxide)	3031-75-2	30	330	2,000	mg/m <sup>3</sup>
1715	Oxybis(N,N-dimethylethanamine), 2,2'-; (Bis(2-dimethylaminoethyl) ether; DMAEE)	3033-62-3	0.15	1.4	8.4	ppm
1716	Aminobutyl)diethoxymethylsilane, (4-	3037-72-7	4.1	45	1,300	mg/m <sup>3</sup>
1717	Phosphonic acid, tridodecyl ester	3076-63-9	9.5	100	630	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
1718	Ethanol, titanium(4+) salt	3087-36-3	30	330	2,000	mg/m <sup>3</sup>
1719	Tetrapropylorthotitanate	3087-37-4	30	330	2,000	mg/m <sup>3</sup>
1720	Acetylaminofluorenone, 2-	3096-50-2	12	130	790	mg/m <sup>3</sup>
1721	Epibromohydrin	3132-64-7	0.98	11	65	mg/m <sup>3</sup>
1722	Ammonium tartrate; (Diammonium tartrate)	3164-29-2	0.8	8.8	53	mg/m <sup>3</sup>
1723	<b>Cyclohexyl isocyanate</b>	<b>3173-53-3</b>	0.0031	<b>0.034</b>	<b>0.10</b>	ppm
1724	Aminopropylmethyldiethoxysilane, 3-	3179-76-8	13	140	860	mg/m <sup>3</sup>
1725	Sodium o-benzyl-p-chlorophenate	3184-65-4	30	330	2,000	mg/m <sup>3</sup>
1726	Octanedione, 2,5-	3214-41-3	10	110	670	mg/m <sup>3</sup>
1727	Potassium tetraphenylborate	3244-41-5	12	130	790	mg/m <sup>3</sup>
1728	Copper nitrate; (Cupric nitrate)	3251-23-8	8.9	31	190	mg/m <sup>3</sup>
1729	Phosphoric acid, dimethyl-p-(methylthio)phenyl ester	3254-63-5	0.64	7	42	mg/m <sup>3</sup>
1730	Octachlorodibenzodioxin, 1,2,3,4,6,7,8,9-; (OCDD, Octachlorodibenzo-p-dioxin)	3268-87-9	0.43	4.7	28	mg/m <sup>3</sup>
1731	<b>Trimethylacetyl chloride; (Pivaloyl chloride)</b>	<b>3282-30-2</b>	0.015	<b>0.16</b>	<b>0.47</b>	ppm
1732	Peroxydicarbonic acid, disodium salt	3313-92-6	3.4	37	220	mg/m <sup>3</sup>
1733	Butanephosphonic acid	3321-64-0	9.6	110	630	mg/m <sup>3</sup>
1734	Nickel(II) carbonate (1:1)	3333-67-3	0.61	6.6	40	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
1735	Nickel formate	3349-06-2	7.6	83	500	mg/m <sup>3</sup>
1736	Dichloroamine; (Chlorimide)	3400-09-7	0.14	1.5	9.2	ppm
1737	Hydroxyphenyl)benzothiazole, 2-(2-	3411-95-8	17	190	1,100	mg/m <sup>3</sup>
1738	Dimethoxybutane, 2,2-	3453-99-4	5.2	57	340	ppm
1739	Butanediol dinitrate, 1,4-	3457-91-8	0.016	0.2	80	ppm
1740	Dinitraniline orange; (Hansa orange RN)	3468-63-1	30	330	2,000	mg/m <sup>3</sup>
1741	Zinc carbonate	3486-35-9	12	130	750	mg/m <sup>3</sup>
1742	Trimethylhexane, 2,2,5-; (Neononane)	3522-94-9	600	6,600	40,000	ppm
1743	Bis(2-chloroethylthio)ethane, 1,2-; (Sesquimustard)	3563-36-8	0.09	0.18	2.9	mg/m <sup>3</sup>
1744	Chloropropyl-n-octylsulfoxide, 3-	3569-57-1	0.73	8	1,100	mg/m <sup>3</sup>
1745	Dichloro-2-trifluoromethylbenzimidazole, 4,5-; (Chloroflurazole)	3615-21-2	1.2	13	78	mg/m <sup>3</sup>
1746	Xylenol orange tetrasodium salt	3618-43-7	30	330	2,000	mg/m <sup>3</sup>
1747	Lead arsenate; (Trilead diarsenate)	3687-31-8	9.1	100	600	mg/m <sup>3</sup>
1748	Sulfotep; (TEDP)	3689-24-5	0.32	3.5	35	mg/m <sup>3</sup>
1749	Chlorophacinone	3691-35-8	0.0047	0.051	0.31	mg/m <sup>3</sup>
1750	Crotonic Acid	3724-65-0	3	33	200	mg/m <sup>3</sup>
1751	Amiton oxalate	3734-97-2	0.009	0.099	0.59	mg/m <sup>3</sup>

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 Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.



**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
1752	Methyl phencapton	3735-23-7	1	11	44	mg/m <sup>3</sup>
1753	Methyl-4-penten-2-one, 4-	3744-02-3	25	830	5,000	ppm
1754	Potassium chlorate	3811-04-9	5.6	62	370	mg/m <sup>3</sup>
1755	Fuberidazole	3878-19-1	0.3	3.3	15	mg/m <sup>3</sup>
1756	Chloroacetic acid, sodium salt	3926-62-3	7.2	79	480	mg/m <sup>3</sup>
1757	Tert-butylpyridine, 4-	3978-81-2	30	330	2,000	mg/m <sup>3</sup>
1758	Thiophosphoryl chloride	3982-91-0	0.093	1	6.1	mg/m <sup>3</sup>
1759	Bitoscanate; (1,4-Phenylenediisothiocyanic acid)	4044-65-9	1.8	20	25	mg/m <sup>3</sup>
1760	Di(ethylene glycol) diacrylate	4074-88-8	0.75	8.3	50	mg/m <sup>3</sup>
1761	Chloroallyl)-3,5,7-triaza-1-azoniaadamantane chloride, 1-(3-	4080-31-3	1.5	17	99	mg/m <sup>3</sup>
1762	Tris(2-aminoethyl)amine	4097-89-6	1	11	49	mg/m <sup>3</sup>
1763	Isophorone diisocyanate	4098-71-9	0.02	0.14	0.6	ppm
1764	Phosacetim	4104-14-7	0.34	3.7	11	mg/m <sup>3</sup>
1765	<b>Dichlorosilane</b>	<b>4109-96-0</b>	<b>0.90</b>	<b>11</b>	<b>50</b>	ppm
1766	Lithium diisopropylamide; (LDA)	4111-54-0	30	330	2,000	mg/m <sup>3</sup>
1767	Ethenylsilanetriol triacetate	4130-08-9	30	330	2,000	mg/m <sup>3</sup>
1768	Dimethylammonium N,N-dimethylcarbamate	4137-10-4	1.2	13	79	mg/m <sup>3</sup>

Compounds with unknown CASRN are issued a "z-number" for identification purposes.  
 Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
1769	<b>Crotonaldehyde, cis-</b>	<b>4170-30-3</b>	<b>0.19</b>	<b>4.4</b>	<b>14</b>	ppm
1770	Diethylene glycol di(3-aminopropyl) ether; (Polyglycol diamine)	4246-51-9	13	140	850	mg/m <sup>3</sup>
1771	Methyltriacetoxysilane	4253-34-3	5	35	250	mg/m <sup>3</sup>
1772	Diisopropylamino)ethyl chloride hydrochloride, 2-(-	4261-68-1	0.008	0.088	0.53	mg/m <sup>3</sup>
1773	Fluenetil	4301-50-2	0.55	6	9.1	mg/m <sup>3</sup>
1774	Bromomethyl-1,3-dioxolane, 2-	4360-63-8	12	130	790	mg/m <sup>3</sup>
1775	Tetrodotoxin; (fugu poison)	4368-28-9	6.30E-05	6.90E-04	0.0041	mg/m <sup>3</sup>
1776	Phosphonoacetic acid	4408-78-0	30	330	2,000	mg/m <sup>3</sup>
1777	Thiobis(4-chloro-6-methyl)phenol, 2,2'-	4418-66-0	0.12	1.3	7.8	mg/m <sup>3</sup>
1778	Trimethoxysilyl-1-propanethiol, 3-; (3-Mercaptopropyltrimethoxysilane)	4420-74-0	2.2	24	150	mg/m <sup>3</sup>
1779	Butylene carbonate; (1,2-Butanediol, cyclic carbonate)	4437-85-8	15	170	990	mg/m <sup>3</sup>
1780	Cyclohexylethanol, 2-	4442-79-9	2.8	31	190	mg/m <sup>3</sup>
1781	<b>Dodecyltrichlorosilane</b>	<b>4484-72-4</b>	<b>0.60</b>	<b>7.3</b>	<b>33</b>	ppm
1782	Lithium stearate	4485-12-5	45	500	3,000	mg/m <sup>3</sup>
1783	Tetrapropylammonium hydroxide	4499-86-9	1.2	13	79	mg/m <sup>3</sup>
1784	Dimethylaminoethyl chloride hydrochloride, 2-	4584-46-7	0.34	3.8	47	mg/m <sup>3</sup>
1785	Farnesol	4602-84-0	18	200	1,200	mg/m <sup>3</sup>

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 Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
1786	Chlorobutryl chloride, 4-	4635-59-0	0.43	4.8	29	mg/m <sup>3</sup>
1787	Paraquat	4685-14-7	0.3	4.4	26	mg/m <sup>3</sup>
1788	Triazine-1,3,5(2H,4H,6H)-triethanol, s-; (Onyxide 200)	4719-04-4	2.3	25	150	mg/m <sup>3</sup>
1789	Trioctylphosphine; (Tri-n-octylphosphine)	4731-53-7	0.11	1.2	7.2	mg/m <sup>3</sup>
1790	Dibutylhexamethylenediamine, N,N'-	4835-11-4	0.2	2.2	9.7	mg/m <sup>3</sup>
1791	Sodium cyclopentadienylide; (Cyclopentadienyl sodium)	4984-82-1	30	330	2,000	mg/m <sup>3</sup>
1792	Aminopyrazine, 2-	5049-61-6	1.5	1.7	10	ppm
1793	Pigment yellow 13; (Butanamide, 2,2'-((3,3'-dichloro(1,1'-biphenyl)-4,4'-diyl)bis(azo))bis	5102-83-0	5.2	57	990	mg/m <sup>3</sup>
1794	Methylene bis(4-isocyanatocyclohexane), 1,1'-	5124-30-1	0.015	0.29	1.7	ppm
1795	Methyltrioctylammonium chloride	5137-55-3	0.67	7.4	44	mg/m <sup>3</sup>
1796	C.I. pigment red 53:1; (5-Chloro-2-((2-hydroxy-1-naphthyl)azo)-p-toluene sulfonic acid,	5160-02-1	3	68	410	mg/m <sup>3</sup>
1797	Zinc carbonate hydroxide	5263-02-5	13	150	870	mg/m <sup>3</sup>
1798	Tetraoxatetracosan-1-ol, 3,6,9,12-; ((Lauryl alcohol tri(oxyethylene) ethanol; BRIJ 30)	5274-68-0	30	330	2,000	mg/m <sup>3</sup>
1799	<b>Octyltrichlorosilane</b>	<b>5283-66-9</b>	<b>0.60</b>	<b>7.3</b>	<b>33</b>	ppm
1800	<b>Nonyltrichlorosilane</b>	<b>5283-67-0</b>	<b>0.60</b>	<b>7.3</b>	<b>33</b>	ppm
1801	Sulfamic acid	5329-14-6	9.5	100	630	mg/m <sup>3</sup>
1802	Methoxypropylamine, 3-; (3-MPA)	5332-73-0	15	94	560	ppm

Compounds with unknown CASRN are issued a "z-number" for identification purposes.  
 Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
1803	Hydrazine, dihydrochloride	5341-61-7	1.8	20	120	mg/m <sup>3</sup>
1804	Chlorophenyl thiourea, 2-	5344-82-1	0.014	0.15	0.91	mg/m <sup>3</sup>
1805	Pigment yellow 14	5468-75-7	15	170	990	mg/m <sup>3</sup>
1806	Hydroxylamine chloride; (Hydroxylamine hydrochloride)	5470-11-1	0.42	4.7	28	mg/m <sup>3</sup>
1807	Nitropyrene, 1-	5522-43-0	0.0064	0.07	0.42	mg/m <sup>3</sup>
1808	Chloroethyl phenyl sulfide, 2-	5535-49-9	1.2	13	79	mg/m <sup>3</sup>
1809	Tetrabutyl ammonium phosphate	5574-97-0	120	1,300	7,900	mg/m <sup>3</sup>
1810	Tetrabutyl titanate; (Butyl titanate)	5593-70-4	0.67	7.4	44	ppm
1811	Sulfur pentafluoride	5714-22-7	9.10E-04	0.01	1	ppm
1812	Carbethoxyethylidine(triphenylphosphorane)	5717-37-3	30	330	2,000	mg/m <sup>3</sup>
1813	Calcium oxalate, monohydrate	5794-28-5	14	150	900	mg/m <sup>3</sup>
1814	Dihydroxynaphthalene-2,7-disulfonic acid, disodium salt dihydrate, 4,5-	5808-22-0	30	330	2,000	mg/m <sup>3</sup>
1815	Mustard gas sulfoxide; (bis(2-Chloroethyl)sulfoxide)	5819-08-9	0.52	5.7	34	mg/m <sup>3</sup>
1816	Coumatetralyl; (Endrocide)	5836-29-3	0.0064	0.071	1.7	mg/m <sup>3</sup>
1817	Ethanethiol, 2-[bis(1-methylethyl)amino]-; (Ethanethiol, 2-(Diisopropylamino)-	5842-07-9	0.016	0.18	1.1	mg/m <sup>3</sup>
1818	Tetrapotassium ethylenediaminetetraacetate; (EDTA tetrapotassium salt)	5964-35-2	88	970	5,900	mg/m <sup>3</sup>
1819	Sulfosalicylic acid, dihydrate, crystal	5965-83-3	12	130	790	mg/m <sup>3</sup>

Compounds with unknown CASRN are issued a "z-number" for identification purposes.  
 Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
1820	Sodium carbonate monohydrate	5968-11-6	14	150	910	mg/m <sup>3</sup>
1821	Zinc acetate dihydrate	5970-45-6	2.4	26	160	mg/m <sup>3</sup>
1822	Ammonium oxalate monohydrate	5972-73-6	30	330	2,000	mg/m <sup>3</sup>
1823	Limonene, d-	5989-27-5	15	67	170	ppm
1824	Gallic acid monohydrate	5995-86-8	18	190	1,200	mg/m <sup>3</sup>
1825	Sodium glycinate	6000-44-8	0.47	5.1	31	ppm
1826	Ammonium oxalate; (Diammonium oxalate monohydrate)	6009-70-7	30	330	2,000	mg/m <sup>3</sup>
1827	Nickel acetate tetrahydrate	6018-89-9	13	140	830	mg/m <sup>3</sup>
1828	Copper(II) acetate monohydrate	6046-93-1	9.4	23	140	mg/m <sup>3</sup>
1829	Tantalum(V) ethoxide	6074-84-6	22	240	1,500	mg/m <sup>3</sup>
1830	Lead acetate(II), trihydrate; (Bis(acetato)trihydroxytrilead)	6080-56-4	14	150	920	mg/m <sup>3</sup>
1831	Phloroglucinol dihydrate	6099-90-7	2.2	24	140	mg/m <sup>3</sup>
1832	Potassium citrate, monohydrate	6100-05-6	30	330	2,000	mg/m <sup>3</sup>
1833	Sodium succinate, hexahydrate	6106-21-4	25	270	1,600	mg/m <sup>3</sup>
1834	Sodium tartrate dihydrate	6106-24-7	30	330	2,000	mg/m <sup>3</sup>
1835	Lithium acetate dihydrate	6108-17-4	3.2	36	210	mg/m <sup>3</sup>
1836	Sodium acetate trihydrate; (Acetic acid, sodium salt trihydrate)	6131-90-4	11	120	690	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
1837	Cobalt acetate tetrahydrate; (Cobaltous acetate tetrahydrate)	6147-53-1	2.1	23	140	mg/m <sup>3</sup>
1838	Oxalic acid dihydrate	6153-56-6	2	83	500	mg/m <sup>3</sup>
1839	Acetic acid, manganese(2+) salt, tetrahydrate	6156-78-1	13	22	740	mg/m <sup>3</sup>
1840	Toluenesulphonic acid monohydrate, para-; (4-Methylbenzenesulphonic acid monohydrate)	6192-52-5	7.7	85	510	mg/m <sup>3</sup>
1841	Phenylxylylethane; (PXE)	6196-95-8	30	330	2,000	mg/m <sup>3</sup>
1842	Barium diphenylamine sulfonate	6211-24-1	6.9	850	5,100	mg/m <sup>3</sup>
1843	Hypophosphorus acid; (Phosphonic acid)	6303-21-5	30	330	2,000	mg/m <sup>3</sup>
1844	Sodium potassium tartrate tetrahydrate	6381-59-5	9	99	590	mg/m <sup>3</sup>
1845	Ethylenediaminetetraacetic acid, disodium salt, dihydrate	6381-92-6	30	330	2,000	mg/m <sup>3</sup>
1846	Dinitro-p-toluidine, 2,6-; (4-Amino-3,5-dinitrotoluene)	6393-42-6	1	12	69	mg/m <sup>3</sup>
1847	Dipentyl pentylphosphonate	6418-56-0	13	140	830	mg/m <sup>3</sup>
1848	Nitriлотris(methylene)trisphosphonic acid; (Amino, tris[methylene phosphonic acid])	6419-19-8	30	69	420	mg/m <sup>3</sup>
1849	<b>Propylene glycol dinitrate</b>	<b>6423-43-4</b>	<b>0.17</b>	<b>1.0</b>	<b>13</b>	ppm
1850	Ammonium nitrate	6484-52-2	6.7	73	440	mg/m <sup>3</sup>
1851	Lanthanum carbonate	6487-39-4	30	330	2,000	mg/m <sup>3</sup>
1852	Potassium oxalate monohydrate	6487-48-5	2	22	130	mg/m <sup>3</sup>
1853	Thallium(I) carbonate (2:1)	6533-73-9	0.18	2	23	mg/m <sup>3</sup>

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 Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
1854	<b>BZ; (3-Quinuclidinyl benzilate)</b>	<b>6581-06-2</b>	1.00E-03	<b>0.011</b>	<b>0.21</b>	mg/m <sup>3</sup>
1855	Chlorocyclohexanol, trans-2-	6628-80-4	2.7	30	180	mg/m <sup>3</sup>
1856	Diazabicyclo(5.4.0)undec-7-ene, 1,8-	6674-22-2	1.2	13	79	mg/m <sup>3</sup>
1857	Sodium silicate; (Sodium metasilicate)	6834-92-0	3.8	42	250	mg/m <sup>3</sup>
1858	Dimethoxydiphenylsilane	6843-66-9	0.027	0.3	1.8	mg/m <sup>3</sup>
1859	Laromin C 260; (bis(4-Amino-3-methylcyclohexyl) methane; Dimethyldicyane)	6864-37-5	0.28	3.1	19	mg/m <sup>3</sup>
1860	Barium stearate	6865-35-6	7.5	83	500	mg/m <sup>3</sup>
1861	Dithioerythritol, 1,4-	6892-68-8	1.2	13	79	mg/m <sup>3</sup>
1862	Malic acid; (Malic acid, DL)	6915-15-7	4.8	53	320	mg/m <sup>3</sup>
1863	Benzylmagnesium chloride	6921-34-2	1.2	13	79	mg/m <sup>3</sup>
1864	Monocrotophos	6923-22-4	0.15	0.63	3.5	mg/m <sup>3</sup>
1865	Chlorophenyl phenyl ether, 4-	7005-72-3	1.5	35	210	mg/m <sup>3</sup>
1866	Chlorosoman; (o-Pinacolyl methylphosphonochloridate)	7040-57-5	1.80E-04	0.0022	0.017	ppm
1867	Diisopropylethylamine, N,N-	7087-68-5	1.8	19	120	ppm
1868	Phenyl-2-oxazoline, 2-	7127-19-7	30	330	2,000	ppm
1869	Didecyldimethylammonium chloride	7173-51-5	0.82	9	17	mg/m <sup>3</sup>
1870	Pyridine-d5	7291-22-7	3	19	3,600	ppm

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
1871	Nonoxynol-4	7311-27-5	30	330	2,000	mg/m <sup>3</sup>
1872	Potassium pyrophosphate; (Tetrapotassium diphosphate)	7320-34-5	61	680	1,200	mg/m <sup>3</sup>
1873	Aluminum acetate, basic	7360-44-3	27	290	1,800	mg/m <sup>3</sup>
1874	Hydroxyethyl)-1-piperazineethanesulfonic acid, 4-(2-	7365-45-9	30	330	2,000	mg/m <sup>3</sup>
1875	Dihexyl((diethylcarbamoyl)methyl)phosphonate; (Dihexyl-N,N-diethylcarbamoylmethyl p	7369-66-6	3	33	200	mg/m <sup>3</sup>
1876	Diallyldimethylammonium chloride	7398-69-8	7.6	83	500	mg/m <sup>3</sup>
1877	Dysprosium	7429-91-6	30	330	2,000	mg/m <sup>3</sup>
1878	Iridium	7439-88-5	4.7	51	310	mg/m <sup>3</sup>
1879	Iron	7439-89-6	3.2	35	150	mg/m <sup>3</sup>
1880	Krypton	7439-90-9	65,000	2.30E+05	4.00E+05	ppm
1881	Lanthanum	7439-91-0	30	330	2,000	mg/m <sup>3</sup>
1882	Lead	7439-92-1	0.15	120	700	mg/m <sup>3</sup>
1883	Lithium	7439-93-2	3.3	36	220	mg/m <sup>3</sup>
1884	Lutetium	7439-94-3	30	330	2,000	mg/m <sup>3</sup>
1885	Magnesium	7439-95-4	18	200	1,200	mg/m <sup>3</sup>
1886	Manganese	7439-96-5	3	5	1,800	mg/m <sup>3</sup>
1887	<b>Mercury vapor</b>	<b>7439-97-6</b>	0.15	<b>1.7</b>	<b>8.9</b>	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
1888	Molybdenum	7439-98-7	30	330	2,000	mg/m <sup>3</sup>
1889	Neodymium	7440-00-8	30	330	2,000	mg/m <sup>3</sup>
1890	Neon	7440-01-9	65,000	2.30E+05	4.00E+05	ppm
1891	Nickel	7440-02-0	4.5	50	99	mg/m <sup>3</sup>
1892	Niobium	7440-03-1	30	330	2,000	mg/m <sup>3</sup>
1893	Osmium	7440-04-2	0.28	3.1	19	mg/m <sup>3</sup>
1894	Palladium	7440-05-3	6	66	400	mg/m <sup>3</sup>
1895	Platinum	7440-06-4	3	33	200	mg/m <sup>3</sup>
1896	Potassium	7440-09-7	2.3	25	150	mg/m <sup>3</sup>
1897	Praseodymium	7440-10-0	1.2	13	79	mg/m <sup>3</sup>
1898	Rhodium	7440-16-6	3	33	200	mg/m <sup>3</sup>
1899	Rubidium	7440-17-7	3.9	43	260	mg/m <sup>3</sup>
1900	Ruthenium	7440-18-8	30	330	2,000	mg/m <sup>3</sup>
1901	Samarium	7440-19-9	30	330	2,000	mg/m <sup>3</sup>
1902	Scandium	7440-20-2	30	330	2,000	mg/m <sup>3</sup>
1903	Silicon	7440-21-3	45	100	630	mg/m <sup>3</sup>
1904	Silver	7440-22-4	0.3	170	990	mg/m <sup>3</sup>

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 Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
1905	Sodium	7440-23-5	13	140	870	mg/m <sup>3</sup>
1906	Strontium	7440-24-6	30	330	2,000	mg/m <sup>3</sup>
1907	Tantalum	7440-25-7	10	11	64	mg/m <sup>3</sup>
1908	Terbium	7440-27-9	1.2	13	79	mg/m <sup>3</sup>
1909	Thallium	7440-28-0	0.06	3.3	20	mg/m <sup>3</sup>
1910	Thorium	7440-29-1	30	330	2,000	mg/m <sup>3</sup>
1911	Thulium	7440-30-4	30	330	2,000	mg/m <sup>3</sup>
1912	Tin	7440-31-5	6	67	400	mg/m <sup>3</sup>
1913	Titanium	7440-32-6	30	330	2,000	mg/m <sup>3</sup>
1914	Tungsten	7440-33-7	10	330	2,000	mg/m <sup>3</sup>
1915	Antimony	7440-36-0	1.5	13	80	mg/m <sup>3</sup>
1916	Argon	7440-37-1	65,000	2.30E+05	4.00E+05	ppm
1917	Arsenic	7440-38-2	1.5	17	100	mg/m <sup>3</sup>
1918	Barium	7440-39-3	1.5	180	1,100	mg/m <sup>3</sup>
1919	<b>Beryllium</b>	<b>7440-41-7</b>	0.0023	<b>0.025</b>	<b>0.1</b>	mg/m <sup>3</sup>
1920	Boron	7440-42-8	1.9	21	130	mg/m <sup>3</sup>
1921	<b>Cadmium</b>	<b>7440-43-9</b>	<b>0.10</b>	<b>0.76</b>	<b>4.7</b>	mg/m <sup>3</sup>

Compounds with unknown CASRN are issued a "z-number" for identification purposes.  
 Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
1922	Carbon; (Graphite, 7782-42-5)	7440-44-0	6	330	2,000	mg/m <sup>3</sup>
1923	Cerium	7440-45-1	30	330	2,000	mg/m <sup>3</sup>
1924	Cesium	7440-46-2	5.6	61	370	mg/m <sup>3</sup>
1925	Chromium	7440-47-3	1.5	17	99	mg/m <sup>3</sup>
1926	Cobalt	7440-48-4	0.18	2	20	mg/m <sup>3</sup>
1927	Copper	7440-50-8	3	33	200	mg/m <sup>3</sup>
1928	Europium	7440-53-1	30	330	2,000	mg/m <sup>3</sup>
1929	Gadolinium	7440-54-2	30	330	2,000	mg/m <sup>3</sup>
1930	Gallium	7440-55-3	30	330	2,000	mg/m <sup>3</sup>
1931	Germanium	7440-56-4	3.2	35	170	mg/m <sup>3</sup>
1932	Gold	7440-57-5	0.46	5.1	30	mg/m <sup>3</sup>
1933	Hafnium	7440-58-6	1.5	17	99	mg/m <sup>3</sup>
1934	Helium	7440-59-7	65,000	2.30E+05	4.00E+05	ppm
1935	Holmium	7440-60-0	12	130	790	mg/m <sup>3</sup>
1936	Uranium	7440-61-1	0.6	5	30	mg/m <sup>3</sup>
1937	Vanadium	7440-62-2	3	5.8	35	mg/m <sup>3</sup>
1938	Xenon	7440-63-3	65,000	2.30E+05	4.00E+05	ppm

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
1939	Yttrium	7440-65-5	3	33	200	mg/m <sup>3</sup>
1940	Zinc	7440-66-6	6	21	120	mg/m <sup>3</sup>
1941	Zirconium	7440-67-7	10	83	500	mg/m <sup>3</sup>
1942	Bismuth	7440-69-9	15	170	990	mg/m <sup>3</sup>
1943	Indium	7440-74-6	0.3	3.3	20	mg/m <sup>3</sup>
1944	Tellurium oxide; (Tellurium dioxide)	7446-07-3	0.38	4.3	26	mg/m <sup>3</sup>
1945	Selenium dioxide	7446-08-4	0.84	1.6	9.5	mg/m <sup>3</sup>
1946	<b>Sulfur dioxide</b>	<b>7446-09-5</b>	<b>0.20</b>	<b>0.75</b>	<b>30</b>	ppm
1947	<b>Sulfur trioxide</b>	<b>7446-11-9</b>	<b>0.20</b>	<b>8.7</b>	<b>160</b>	mg/m <sup>3</sup>
1948	Lead sulfate; (Sulfuric acid, lead(2+) salt (1:1))	7446-14-2	0.22	170	1,000	mg/m <sup>3</sup>
1949	Thallium(I) sulfate; (Sulfuric acid, dithallium(1+) salt)	7446-18-6	0.18	2	25	mg/m <sup>3</sup>
1950	Zinc sulfate heptahydrate (1:1:7)	7446-20-0	27	170	1,000	mg/m <sup>3</sup>
1951	Lead phosphate	7446-27-7	0.2	150	910	mg/m <sup>3</sup>
1952	Zirconium sulfate tetrahydrate	7446-31-3	39	320	1,900	mg/m <sup>3</sup>
1953	Selenium monosulfide	7446-34-6	0.84	1.3	7.5	mg/m <sup>3</sup>
1954	Aluminum chloride	7446-70-0	30	60	360	mg/m <sup>3</sup>
1955	Copper(II) chloride (1:2); (Cupric chloride)	7447-39-4	6.3	69	420	mg/m <sup>3</sup>

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 Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
1956	Lithium chloride	7447-41-8	2.3	25	150	mg/m <sup>3</sup>
1957	Magnesium sulfate (1:1)	7487-88-9	20	220	1,300	mg/m <sup>3</sup>
1958	Mercury(II) chloride; (Mercury bichloride)	7487-94-7	0.1	0.14	38	mg/m <sup>3</sup>
1959	Tin(II) sulfate; (Stannous sulfate)	7488-55-3	11	120	720	mg/m <sup>3</sup>
1960	Selenium sulfide; (Selenium(IV) disulfide (1:2))	7488-56-4	1.1	4.6	27	mg/m <sup>3</sup>
1961	<b>Butyltrichlorosilane</b>	<b>7521-80-4</b>	<b>0.60</b>	<b>7.3</b>	<b>33</b>	ppm
1962	Mercurous chloride; (Mercury monochloride)	7546-30-7	0.088	0.12	33	mg/m <sup>3</sup>
1963	Lithium bromide	7550-35-8	3.9	42	250	mg/m <sup>3</sup>
1964	<b>Titanium tetrachloride</b>	<b>7550-45-0</b>	<b>0.65</b>	<b>1.0</b>	<b>5.7</b>	ppm
1965	<b>Iodine</b>	<b>7553-56-2</b>	<b>0.1</b>	<b>0.5</b>	<b>5</b>	ppm
1966	Dichloroacetylene	7572-29-4	0.0091	0.1	3.4	ppm
1967	<b>Lithium hydride</b>	<b>7580-67-8</b>	<b>0.025</b>	<b>0.1</b>	<b>0.5</b>	mg/m <sup>3</sup>
1968	Sodium perchlorate	7601-89-0	6.3	69	420	mg/m <sup>3</sup>
1969	Perchloric acid	7601-90-3	0.61	6.7	40	ppm
1970	<b>Perchloryl fluoride; (Chlorine oxyfluoride)</b>	<b>7616-94-6</b>	<b>1.5</b>	<b>4.0</b>	<b>12</b>	ppm
1971	Silica amorphous hydrated	7631-86-9	18	740	4,500	mg/m <sup>3</sup>
1972	Sodium arsenate	7631-89-2	4.1	45	270	mg/m <sup>3</sup>

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 Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
1973	Sodium bisulfite	7631-90-5	15	66	400	mg/m <sup>3</sup>
1974	Sodium dithionate dihydrate	7631-94-9	30	330	2,000	mg/m <sup>3</sup>
1975	Molybdic acid, disodium salt; (Disodium molybdate)	7631-95-0	3.2	17	100	mg/m <sup>3</sup>
1976	Dodecylsarcosine sodium salt, N-; (N-Lauryl sarcosine sodium salt)	7631-98-3	0.59	6.5	39	mg/m <sup>3</sup>
1977	Sodium nitrate	7631-99-4	4.1	45	270	mg/m <sup>3</sup>
1978	Sodium nitrite	7632-00-0	6.4	71	240	mg/m <sup>3</sup>
1979	Perboric acid, sodium salt	7632-04-4	8	88	530	mg/m <sup>3</sup>
1980	Ammonium citrate; (includes dibasic (3458-72-8), and tribasic (3012-65-5))	7632-50-0	1.1	12	72	mg/m <sup>3</sup>
1981	Vanadium tetrachloride	7632-51-1	0.017	0.19	130	mg/m <sup>3</sup>
1982	Ceric ammonium sulfate; (includes hydrated forms)	7637-03-8	1.2	13	79	mg/m <sup>3</sup>
1983	<b>Boron trifluoride</b>	<b>7637-07-2</b>	<b>2.5</b>	<b>29</b>	<b>88</b>	mg/m <sup>3</sup>
1984	Sodium hydride	7646-69-7	1.2	13	79	mg/m <sup>3</sup>
1985	Stannic chloride; (Tin(IV) chloride; Tin(IV) tetrachloride)	7646-78-8	13	150	880	mg/m <sup>3</sup>
1986	Cobalt chloride	7646-79-9	0.13	18	83	mg/m <sup>3</sup>
1987	Zinc chloride	7646-85-7	2	800	4,800	mg/m <sup>3</sup>
1988	Potassium bisulfate	7646-93-7	7	77	460	mg/m <sup>3</sup>
1989	<b>Hydrogen chloride; (Hydrochloric acid)</b>	<b>7647-01-0</b>	<b>1.8</b>	<b>22</b>	<b>100</b>	ppm

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 Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
1990	Palladium chloride (Palladium(II) chloride)	7647-10-1	8.1	89	540	mg/m <sup>3</sup>
1991	Sodium bromide	7647-15-6	12	130	830	mg/m <sup>3</sup>
1992	Cesium chloride	7647-17-8	21	230	400	mg/m <sup>3</sup>
1993	Antimony pentachloride	7647-18-9	3.7	33	200	mg/m <sup>3</sup>
1994	Phosphorous pentafluoride	7647-19-0	2	22	130	ppm
1995	<b>Phosphoric acid</b>	<b>7664-38-2</b>	<b>3</b>	<b>30</b>	<b>150</b>	mg/m <sup>3</sup>
1996	<b>Hydrogen fluoride; (Hydrofluoric acid)</b>	<b>7664-39-3</b>	<b>1.0</b>	<b>24</b>	<b>44</b>	ppm
1997	<b>Ammonia</b>	<b>7664-41-7</b>	<b>30</b>	<b>160</b>	<b>1,100</b>	ppm
1998	<b>Sulfuric acid</b>	<b>7664-93-9</b>	<b>0.20</b>	<b>8.7</b>	<b>160</b>	mg/m <sup>3</sup>
1999	Potassium iodide	7681-11-0	1.3	15	87	mg/m <sup>3</sup>
2000	Sodium bisulfate; (Sodium acid sulfate)	7681-38-1	0.82	9	54	mg/m <sup>3</sup>
2001	Sodium fluoride	7681-49-4	17	90	1,100	mg/m <sup>3</sup>
2002	Sodium hypochlorite	7681-52-9	2	290	1,800	mg/m <sup>3</sup>
2003	Sodium hypophosphite	7681-53-0	5.2	57	340	mg/m <sup>3</sup>
2004	Sodium iodate	7681-55-2	0.83	9.1	55	mg/m <sup>3</sup>
2005	Sodium metabisulfite	7681-57-4	15	64	390	mg/m <sup>3</sup>
2006	Sodium iodide	7681-82-5	13	140	860	mg/m <sup>3</sup>

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 Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
2007	Potassium hydride	7693-26-7	1.2	13	79	mg/m <sup>3</sup>
2008	<b>Nitric acid</b>	<b>7697-37-2</b>	<b>0.16</b>	<b>24</b>	<b>92</b>	ppm
2009	Deuteriochloric acid; (Deuterium chloride)	7698-05-7	1.8	22	100	ppm
2010	Silicic acid	7699-41-4	0.9	11	67	mg/m <sup>3</sup>
2011	Zirconyl chloride; (Zirconium oxychloride)	7699-43-6	20	160	980	mg/m <sup>3</sup>
2012	Zinc bromide	7699-45-8	6	66	400	mg/m <sup>3</sup>
2013	Titanium hydride	7704-98-5	1.2	13	79	mg/m <sup>3</sup>
2014	Zirconium hydride	7704-99-6	10	85	510	mg/m <sup>3</sup>
2015	Titanium chloride	7705-07-9	1.2	13	79	mg/m <sup>3</sup>
2016	Ferric chloride	7705-08-0	8.7	30	180	mg/m <sup>3</sup>
2017	Nickel chloride; (Nickelous chloride)	7718-54-9	0.66	22	130	mg/m <sup>3</sup>
2018	<b>Thionyl chloride</b>	<b>7719-09-7</b>	<b>0.2</b>	<b>2.4</b>	<b>14</b>	ppm
2019	<b>Phosphorus trichloride</b>	<b>7719-12-2</b>	<b>0.34</b>	<b>2.0</b>	<b>5.6</b>	ppm
2020	Ferrous sulfate	7720-78-7	8.2	41	250	mg/m <sup>3</sup>
2021	Potassium permanganate	7722-64-7	8.6	14	150	mg/m <sup>3</sup>
2022	Ammonium dihydrogen phosphate; (Monoammonium phosphate)	7722-76-1	17	190	1,100	mg/m <sup>3</sup>
2023	<b>Hydrogen peroxide</b>	<b>7722-84-1</b>	<b>10</b>	<b>50</b>	<b>100</b>	ppm

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 Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.



**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
2024	Tetrasodium pyrophosphate	7722-88-5	15	130	790	mg/m <sup>3</sup>
2025	Phosphorus (red, violet, and black)	7723-14-0	0.27	3	18	mg/m <sup>3</sup>
2026	<b>Bromine</b>	<b>7726-95-6</b>	<b>0.033</b>	<b>0.24</b>	<b>8.5</b>	ppm
2027	Vanadium, trichlorooxo-	7727-18-6	0.015	0.17	120	ppm
2028	Potassium persulfate; (Dipotassium persulfate)	7727-21-1	0.3	26	160	mg/m <sup>3</sup>
2029	Nitrogen	7727-37-9	7.96E+05	8.32E+05	8.69E+05	ppm
2030	Barium sulfate	7727-43-7	15	170	990	mg/m <sup>3</sup>
2031	Ammonium peroxydisulfate	7727-54-0	0.3	22	130	mg/m <sup>3</sup>
2032	Zinc sulfate	7733-02-0	15	97	580	mg/m <sup>3</sup>
2033	Potassium nitrate	7757-79-1	9	100	600	mg/m <sup>3</sup>
2034	Sodium sulfate, anhydrous	7757-82-6	9.8	110	650	mg/m <sup>3</sup>
2035	Sodium sulfite	7757-83-7	11	120	710	mg/m <sup>3</sup>
2036	Potassium bromate	7758-01-2	0.3	3.1	89	mg/m <sup>3</sup>
2037	Potassium bromide	7758-02-3	9.2	100	610	mg/m <sup>3</sup>
2038	Potassium iodate	7758-05-6	0.45	4.9	29	mg/m <sup>3</sup>
2039	Potassium nitrite	7758-09-0	4.1	45	3,000	mg/m <sup>3</sup>
2040	Potassium phosphate, dibasic	7758-11-4	13	140	830	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
2041	Sodium pyrophosphate, di-	7758-16-9	4.3	48	290	mg/m <sup>3</sup>
2042	Sodium chlorite	7758-19-2	0.19	2.1	13	mg/m <sup>3</sup>
2043	Sodium tripolyphosphate	7758-29-4	0.61	6.8	620	mg/m <sup>3</sup>
2044	Cerium fluoride	7758-88-5	26	280	1,700	mg/m <sup>3</sup>
2045	Copper(I) chloride; (Cuprous chloride)	7758-89-6	4.7	53	320	mg/m <sup>3</sup>
2046	Ferrous chloride	7758-94-3	6.8	76	460	mg/m <sup>3</sup>
2047	Lead chloride	7758-95-4	0.2	160	940	mg/m <sup>3</sup>
2048	Lead chromate	7758-97-6	0.036	16	97	mg/m <sup>3</sup>
2049	Copper sulfate; (Copper(II) sulfate)	7758-98-7	7.5	9.9	59	mg/m <sup>3</sup>
2050	Copper(II) sulfate pentahydrate	7758-99-8	12	32	190	mg/m <sup>3</sup>
2051	Strontium sulfate	7759-02-6	30	330	2,000	mg/m <sup>3</sup>
2052	Magnesium carbonate hydroxide	7760-50-1	30	330	2,000	mg/m <sup>3</sup>
2053	Silver nitrate	7761-88-8	0.047	0.9	5.4	mg/m <sup>3</sup>
2054	Sodium thiosulfate	7772-98-7	38	410	2,500	mg/m <sup>3</sup>
2055	Stannous chloride; (Tin(II) chloride (1:2))	7772-99-8	9.6	65	640	mg/m <sup>3</sup>
2056	Manganese(II) chloride (1:2); (Manganous chloride)	7773-01-5	6.9	11	170	mg/m <sup>3</sup>
2057	Ammonium sulfamate	7773-06-0	30	98	5,000	mg/m <sup>3</sup>

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 Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
2058	Mercuric iodide; (Mercury(II) iodide)	7774-29-0	0.17	0.23	63	mg/m <sup>3</sup>
2059	Calcium chloride hexahydrate	7774-34-7	24	260	1,600	mg/m <sup>3</sup>
2060	Chloric acid, sodium salt; (Sodium chlorate)	7775-09-9	3.6	40	240	mg/m <sup>3</sup>
2061	Sodium chromate(VI); (Disodium chromate)	7775-11-3	0.47	8.2	49	mg/m <sup>3</sup>
2062	Sodium hydrosulfite	7775-14-6	30	330	2,000	mg/m <sup>3</sup>
2063	Sodium metaborate	7775-19-1	6.8	77	460	mg/m <sup>3</sup>
2064	Sodium persulfate	7775-27-1	0.3	8.2	49	mg/m <sup>3</sup>
2065	Arsenic acid; (o-Arsenic acid) Includes CASRN 1327-52-2	7778-39-4	2.9	32	190	mg/m <sup>3</sup>
2066	Calcium arsenate	7778-44-1	0.91	10	270	mg/m <sup>3</sup>
2067	Potassium dichromate	7778-50-9	0.42	8.8	44	mg/m <sup>3</sup>
2068	Potassium phosphate, tribasic	7778-53-2	15	170	980	mg/m <sup>3</sup>
2069	Calcium hypochlorite; (Calcium oxychloride)	7778-54-3	2.6	28	170	mg/m <sup>3</sup>
2070	Potassium perchlorate	7778-74-7	6.3	69	420	mg/m <sup>3</sup>
2071	Potassium phosphate, monobasic	7778-77-0	9.6	110	630	mg/m <sup>3</sup>
2072	Potassium sulfate (2:1); (Dipotassium sulfate)	7778-80-5	20	220	1,300	mg/m <sup>3</sup>
2073	Zinc nitrate	7779-88-6	17	190	1,100	mg/m <sup>3</sup>
2074	Zinc phosphate (3:2)	7779-90-0	12	36	220	mg/m <sup>3</sup>

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 Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
2075	Deuterium	7782-39-0	65,000	2.30E+05	4.00E+05	ppm
2076	Diamond	7782-40-3	6.3	69	1,100	mg/m <sup>3</sup>
2077	<b>Fluorine</b>	<b>7782-41-4</b>	<b>1.7</b>	<b>5</b>	<b>13</b>	ppm
2078	Selenium	7782-49-2	0.6	6.6	40	mg/m <sup>3</sup>
2079	<b>Chlorine</b>	<b>7782-50-5</b>	<b>0.50</b>	<b>2.0</b>	<b>20</b>	ppm
2080	Ferric nitrate nonahydrate; (Iron(III) nitrate nonahydrate (1:3:9))	7782-61-8	22	110	640	mg/m <sup>3</sup>
2081	Ferrous sulfate heptahydrate	7782-63-0	15	170	990	mg/m <sup>3</sup>
2082	<b>Germane; (Germanium tetrahydride)</b>	<b>7782-65-2</b>	0.015	<b>0.17</b>	<b>0.50</b>	ppm
2083	Iodic acid	7782-68-5	0.15	1.7	10	mg/m <sup>3</sup>
2084	Nitrous acid	7782-77-6	0.41	62	240	mg/m <sup>3</sup>
2085	Nitrosylsulfuric acid	7782-78-7	1.2	13	79	mg/m <sup>3</sup>
2086	Mercurous nitrate monohydrate	7782-86-7	0.11	0.14	39	mg/m <sup>3</sup>
2087	Molybdic acid	7782-91-4	2.5	28	170	mg/m <sup>3</sup>
2088	Sulfurous acid	7782-99-2	0.17	7.3	130	mg/m <sup>3</sup>
2089	Selenious acid	7783-00-8	23	250	1,500	mg/m <sup>3</sup>
2090	Tungstic acid	7783-03-1	14	150	920	mg/m <sup>3</sup>
2091	<b>Hydrogen sulfide</b>	<b>7783-06-4</b>	<b>0.51</b>	<b>27</b>	<b>50</b>	ppm

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
2092	<b>Hydrogen selenide</b>	<b>7783-07-5</b>	0.045	<b>0.11</b>	<b>0.33</b>	ppm
2093	Ammonium sulfite monohydrate	7783-11-1	30	330	2,000	mg/m <sup>3</sup>
2094	Ammonium thiosulfate; (Ammonium hyposulfite)	7783-18-8	12	130	790	mg/m <sup>3</sup>
2095	Ammonium sulfate	7783-20-2	13	140	840	mg/m <sup>3</sup>
2096	Ammonium phosphate dibasic; (Diammonium phosphate)	7783-28-0	20	210	1,300	mg/m <sup>3</sup>
2097	Mercury(II) nitrate monohydrate	7783-34-8	0.13	0.17	48	mg/m <sup>3</sup>
2098	Mercuric sulfate; (Mercury(II) sulfate)	7783-35-9	0.11	0.15	41	mg/m <sup>3</sup>
2099	Magnesium fluoride	7783-40-6	12	140	820	mg/m <sup>3</sup>
2100	<b>Oxygen difluoride; (Fluorine monoxide)</b>	<b>7783-41-7</b>	0.0075	<b>0.083</b>	<b>0.25</b>	ppm
2101	Lead fluoride	7783-46-2	0.18	140	830	mg/m <sup>3</sup>
2102	Zinc fluoride	7783-49-5	20	230	1,400	mg/m <sup>3</sup>
2103	Ferric fluoride	7783-50-8	6.1	22	130	mg/m <sup>3</sup>
2104	Gallium trifluoride	7783-51-9	17	180	1,100	mg/m <sup>3</sup>
2105	<b>Nitrogen trifluoride</b>	<b>7783-54-2</b>	<b>200</b>	<b>530</b>	<b>860</b>	ppm
2106	Phosphorous trifluoride	7783-55-3	3.2	35	210	ppm
2107	Antimony trifluoride	7783-56-4	2.2	20	120	mg/m <sup>3</sup>
2108	Germanium tetrafluoride	7783-58-6	15	160	980	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
2109	Sulfur tetrafluoride	7783-60-0	0.0091	0.1	0.82	ppm
2110	<b>Silicon tetrafluoride; (Tetrafluorosilane)</b>	<b>7783-61-1</b>	<b>0.05</b>	<b>3.3</b>	<b>10</b>	ppm
2111	Zirconium fluoride	7783-64-4	17	180	1,100	mg/m <sup>3</sup>
2112	Antimony pentafluoride	7783-70-2	2.7	23	140	mg/m <sup>3</sup>
2113	Tantalum(V) fluoride	7783-71-3	22	250	1,500	mg/m <sup>3</sup>
2114	<b>Selenium hexafluoride</b>	<b>7783-79-1</b>	<b>0.053</b>	<b>0.087</b>	<b>0.26</b>	ppm
2115	<b>Tellurium hexafluoride</b>	<b>7783-80-4</b>	4.80E-04	<b>0.0053</b>	<b>0.016</b>	ppm
2116	<b>Uranium hexafluoride; (Uranium fluoride)</b>	<b>7783-81-5</b>	<b>3.6</b>	<b>9.6</b>	<b>36</b>	mg/m <sup>3</sup>
2117	Tungsten hexafluoride	7783-82-6	4.9	54	320	mg/m <sup>3</sup>
2118	Ferric ammonium sulfate dodecahydrate	7783-83-7	26	280	1,700	mg/m <sup>3</sup>
2119	Ammonium ferrous sulfate hexahydrate	7783-85-9	9.6	110	640	mg/m <sup>3</sup>
2120	Silver chloride	7783-90-6	22	240	1,400	mg/m <sup>3</sup>
2121	Silver nitrite; (Silver(I) nitrite)	7783-99-5	0.043	0.46	2.8	mg/m <sup>3</sup>
2122	Aluminum chloride hexahydrate	7784-13-6	54	110	650	mg/m <sup>3</sup>
2123	Aluminum fluoride	7784-18-1	19	59	360	mg/m <sup>3</sup>
2124	Ammonium aluminum fluoride; (Triammonium hexafluoroaluminate)	7784-19-2	13	140	860	mg/m <sup>3</sup>
2125	Aluminum potassium sulfate, dodecahydrate	7784-24-9	110	1,200	6,900	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
2126	Aluminum(III) nitrate nonahydrate (1:3:9)	7784-27-2	83	920	5,500	mg/m <sup>3</sup>
2127	Aluminum phosphate; (Phosphoric acid, aluminum salt (1:1), solution)	7784-30-7	14	200	1,200	mg/m <sup>3</sup>
2128	Arsenous trichloride	7784-34-1	0.91	10	240	mg/m <sup>3</sup>
2129	Lead acid arsenate; (Dibasic lead arsenate)	7784-40-9	7	77	460	mg/m <sup>3</sup>
2130	Potassium arsenate; (Monopotassium arsenate)	7784-41-0	3.6	40	240	mg/m <sup>3</sup>
2131	<b>Arsine</b>	<b>7784-42-1</b>	0.015	<b>0.17</b>	<b>0.50</b>	ppm
2132	Sodium arsenite	7784-46-5	0.91	10	170	mg/m <sup>3</sup>
2133	Manganous sulfate	7785-87-7	8.2	14	430	mg/m <sup>3</sup>
2134	Magnesium chloride	7786-30-3	11	120	550	mg/m <sup>3</sup>
2135	Mevinphos; (Phosdrin)	7786-34-7	0.3	4	40	mg/m <sup>3</sup>
2136	Nickel sulfate; (Nickel(II) sulfate)	7786-81-4	0.79	8.6	51	mg/m <sup>3</sup>
2137	Barium fluoride	7787-32-8	1.9	230	1,400	mg/m <sup>3</sup>
2138	Barium permanganate	7787-36-2	20	34	200	mg/m <sup>3</sup>
2139	Beryllium chloride	7787-47-5	0.02	0.22	0.89	mg/m <sup>3</sup>
2140	Beryllium fluoride	7787-49-7	0.012	0.13	0.52	mg/m <sup>3</sup>
2141	Bismuth oxychloride; (Bismuth chloride oxide)	7787-59-9	66	730	4,400	mg/m <sup>3</sup>
2142	Bismuth iodide	7787-64-6	1.2	13	79	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
2143	<b>Bromine trifluoride</b>	<b>7787-71-5</b>	<b>0.12</b>	<b>2.0</b>	<b>21</b>	ppm
2144	Chromium(III) fluoride	7788-97-8	3.1	33	200	mg/m <sup>3</sup>
2145	Ammonium chromate	7788-98-9	0.44	7.7	46	mg/m <sup>3</sup>
2146	Chromium(III) potassium sulfate (1:1:2), dodecahydrate	7788-99-0	14	160	950	mg/m <sup>3</sup>
2147	Potassium chromate(VI)	7789-00-6	0.56	9.7	58	mg/m <sup>3</sup>
2148	Ammonium dichromate	7789-09-5	0.37	6.3	38	mg/m <sup>3</sup>
2149	Sodium dichromate dihydrate	7789-12-0	0.43	7.5	45	mg/m <sup>3</sup>
2150	Cesium iodide	7789-17-5	7.2	79	470	mg/m <sup>3</sup>
2151	Cesium nitrate	7789-18-6	7.2	79	470	mg/m <sup>3</sup>
2152	<b>Fluorosulfonic acid; (Fluorosulfuric acid)</b>	<b>7789-21-1</b>	<b>2</b>	<b>10</b>	<b>30</b>	mg/m <sup>3</sup>
2153	Potassium fluoride	7789-23-3	23	250	1,500	mg/m <sup>3</sup>
2154	Lithium fluoride	7789-24-4	10	110	680	mg/m <sup>3</sup>
2155	Potassium acid fluoride	7789-29-9	15	170	1,000	mg/m <sup>3</sup>
2156	<b>Bromine pentafluoride</b>	<b>7789-30-2</b>	0.015	<b>0.17</b>	<b>33</b>	ppm
2157	Sodium bromate	7789-38-0	0.46	5.1	30	mg/m <sup>3</sup>
2158	Rubidium bromide	7789-39-1	30	330	2,000	mg/m <sup>3</sup>
2159	Cadmium bromide	7789-42-6	0.24	1.8	11	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
2160	Cobaltous bromide; (Cobalt(II) bromide)	7789-43-7	0.22	13	80	mg/m <sup>3</sup>
2161	Calcium fluoride	7789-75-5	15	170	1,000	mg/m <sup>3</sup>
2162	Calcium monohydrogen phosphate dihydrate	7789-77-7	12	130	790	mg/m <sup>3</sup>
2163	Calcium hydride	7789-78-8	12	130	790	mg/m <sup>3</sup>
2164	Potassium periodate	7790-21-8	1.2	13	79	mg/m <sup>3</sup>
2165	Periodic acid, sodium salt	7790-28-5	0.19	2.1	13	mg/m <sup>3</sup>
2166	Magnesium iodate tetrahydrate	7790-32-1	30	330	2,000	mg/m <sup>3</sup>
2167	Potassium tellurite	7790-58-1	0.6	6.6	40	mg/m <sup>3</sup>
2168	Potassium selenate	7790-59-2	1.7	18	110	mg/m <sup>3</sup>
2169	Potassium tungstate	7790-60-5	5.3	58	350	mg/m <sup>3</sup>
2170	Potassium pyrosulfate; (Disulfuric acid, dipotassium salt)	7790-62-7	30	330	2,000	mg/m <sup>3</sup>
2171	Lithium nitrate	7790-69-4	30	330	2,000	mg/m <sup>3</sup>
2172	Cadmium chloride hemipentahydrate; (Cadmium chloride, 5/2-hydrate)	7790-78-5	0.1	0.77	9.5	mg/m <sup>3</sup>
2173	Cadmium fluoride	7790-79-6	0.13	1	6.3	mg/m <sup>3</sup>
2174	Cadmium nitrite	7790-83-2	0.18	1.4	8.6	mg/m <sup>3</sup>
2175	Cadmium sulfate, hydrate	7790-84-3	0.1	0.76	11	mg/m <sup>3</sup>
2176	Cadmium tungstate	7790-85-4	0.32	2.4	15	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
2177	Cerium chloride	7790-86-5	6.3	70	420	mg/m <sup>3</sup>
2178	<b>Chlorine trifluoride</b>	<b>7790-91-2</b>	<b>0.12</b>	<b>2.0</b>	<b>21</b>	ppm
2179	<b>Chlorosulfonic acid; (Chlorosulfuric acid)</b>	<b>7790-94-5</b>	<b>0.10</b>	<b>4.4</b>	<b>25</b>	mg/m <sup>3</sup>
2180	Ammonium perchlorate	7790-98-9	4.6	50	830	mg/m <sup>3</sup>
2181	Lithium perchlorate, anhydrous	7791-03-9	1.2	13	79	mg/m <sup>3</sup>
2182	Sodium perchlorate monohydrate	7791-07-3	3.8	41	250	mg/m <sup>3</sup>
2183	Rubidium chloride	7791-11-9	6.2	69	410	mg/m <sup>3</sup>
2184	Thallium chloride; (Thallium(I) chloride)	7791-12-0	0.18	2	23	mg/m <sup>3</sup>
2185	Cobalt(II) chloride hexahydrate	7791-13-1	0.24	25	150	mg/m <sup>3</sup>
2186	Magnesium chloride hexahydrate	7791-18-6	34	370	1,600	mg/m <sup>3</sup>
2187	Nickel(II) chloride hexahydrate	7791-20-0	1.2	5.2	31	mg/m <sup>3</sup>
2188	Selenium oxychloride	7791-23-3	1.3	10	60	mg/m <sup>3</sup>
2189	<b>Sulfuryl chloride</b>	<b>7791-25-5</b>	<b>0.3</b>	<b>3.7</b>	<b>11</b>	ppm
2190	Ethylene glycol mono-sec-butyl ether	7795-91-7	2.4	26	160	mg/m <sup>3</sup>
2191	Hydroxylamine	7803-49-8	0.35	3.9	23	mg/m <sup>3</sup>
2192	<b>Phosphine</b>	<b>7803-51-2</b>	1	<b>2.0</b>	<b>3.6</b>	ppm
2193	<b>Stibine; (Antimony hydride)</b>	<b>7803-52-3</b>	0.3	<b>1.5</b>	<b>9.6</b>	ppm

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
2194	Ammonium vanadate; (Ammonium vanadium oxide; Ammonium metavanadate)	7803-55-6	0.01	0.11	80	mg/m <sup>3</sup>
2195	Hydrazine hydrate; (Hydrazine monohydrate; aqueous solutions - 10217-52-4)	7803-57-8	0.16	20	55	mg/m <sup>3</sup>
2196	<b>Silane; (Silicon tetrahydride)</b>	<b>7803-62-5</b>	<b>100</b>	<b>130</b>	<b>270</b>	ppm
2197	Ammonium bisulfate; (Ammonium hydrogen sulfate)	7803-63-6	0.012	0.13	0.78	mg/m <sup>3</sup>
2198	Toxaphene; (Chlorinated camphene)	8001-35-2	1	20	200	mg/m <sup>3</sup>
2199	Alkyl dimethylbenzyl ammonium chloride; (Benzalkonium chloride)	8001-54-5	0.91	10	60	mg/m <sup>3</sup>
2200	Creosote (coal tar)	8001-58-9	0.6	120	700	mg/m <sup>3</sup>
2201	Petroleum distillates; petroleum ether; includes clay-treated light naphthenic [64742-45-	8002-05-9	1,100	1,800	40,000	mg/m <sup>3</sup>
2202	Chloropicrin/Methyl bromide mixture	8004-09-9	0.05	0.15	1.4	mg/m <sup>3</sup>
2203	Soda lime	8006-28-8	1	240	1,500	mg/m <sup>3</sup>
2204	Turpentine, (Alpha and beta pinene, 80-56-8)	8006-64-2	60	120	1,500	ppm
2205	Coal tar, aerosol	8007-45-2	2.8	31	190	mg/m <sup>3</sup>
2206	Aqua regia (75% hydrochloric + 25% nitric acid)	8007-56-5	1.8	22	100	ppm
2207	<b>Oleum; (fuming Sulfuric acid)</b>	<b>8014-95-7</b>	<b>0.20</b>	<b>8.7</b>	<b>160</b>	mg/m <sup>3</sup>
2208	Polyphosphoric acid	8017-16-1	3	30	150	mg/m <sup>3</sup>
2209	Mancozeb; (Dithane M-45)	8018-01-7	3	56	990	mg/m <sup>3</sup>
2210	Mineral oil, heavy or light; (paraffin oil; Deobase, deodorized; heavy paraffinic; heavy na	8020-83-5	140	1,500	8,900	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
2211	Naphtha (coal tar); includes solvent naphtha, petroleum (64742-88-7), naphtha (petrole	8030-30-6	1,200	6,700	40,000	mg/m <sup>3</sup>
2212	Rosin core solder decomposition products; (Colophony Gum)	8050-09-7	72	790	1,500	mg/m <sup>3</sup>
2213	Stoddard solvent; (Mineral spirits, 85% nonane and 15% trimethyl benzene)	8052-41-3	300	1,800	29,500	mg/m <sup>3</sup>
2214	Petroleum asphalt; (Bitumen)	8052-42-4	30	330	2,000	mg/m <sup>3</sup>
2215	Ammonium lignin sulfonate	8061-53-8	30	330	2,000	mg/m <sup>3</sup>
2216	Lignosulfonate (aqueous)	8062-15-5	30	330	2,000	mg/m <sup>3</sup>
2217	Demeton	8065-48-3	0.18	2	20	mg/m <sup>3</sup>
2218	Cyclotol; (RDX-TNT mixture)	8065-53-0	3	33	200	mg/m <sup>3</sup>
2219	Chlorotrifluoroethene, homopolymer	9002-83-9	1.5	16	200	mg/m <sup>3</sup>
2220	Polytetrafluoroethylene; (Teflon)	9002-84-0	12	130	790	mg/m <sup>3</sup>
2221	Polyvinyl chloride	9002-86-2	3	33	200	mg/m <sup>3</sup>
2222	Polyethylene	9002-88-4	16	170	1,000	mg/m <sup>3</sup>
2223	Polyvinyl alcohol	9002-89-5	24	270	1,600	mg/m <sup>3</sup>
2224	Brij-35; (alpha-Dodecyl-omega-hydroxypoly(oxyethylene))	9002-92-0	2.9	31	200	mg/m <sup>3</sup>
2225	Aziridine homopolymer; (Ethylenimine homopolymer; Poly(ethyleneimine))	9002-98-6	4.1	45	270	mg/m <sup>3</sup>
2226	Ammonium polyacrylate	9003-03-6	30	330	2,000	mg/m <sup>3</sup>
2227	Polypropylene	9003-07-0	5.2	58	350	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
2228	Polypropylene-polyethylene glycol; (Pluronic L-81)	9003-11-6	6.9	76	460	mg/m <sup>3</sup>
2229	Butoxypolypropylene glycol	9003-13-8	27	300	1,800	mg/m <sup>3</sup>
2230	Vinyl acetate-vinyl chloride copolymer; (Acetic acid, vinyl ester, polymer with chloroethy	9003-22-9	120	1,300	7,900	mg/m <sup>3</sup>
2231	Poly(1-vinyl-2-pyrrolidinone) homopolymer; (Polyvinylpyrrolidone; Plasdone)	9003-39-8	51	560	20,000	mg/m <sup>3</sup>
2232	Polybutyl acrylate	9003-49-0	30	330	2,000	mg/m <sup>3</sup>
2233	Polystyrene resin; (Styrene polymer)	9003-53-6	85	550	4,700	mg/m <sup>3</sup>
2234	Poly(divinylbenzene); (Diethenylbenzene homopolymer)	9003-69-4	12	130	790	mg/m <sup>3</sup>
2235	Poly(ethylene glycol methyl ether)	9004-74-4	66	730	4,400	mg/m <sup>3</sup>
2236	Poly(oxyethylene)(2) stearyl ether	9005-00-9	5.7	63	380	mg/m <sup>3</sup>
2237	Polysorbate 85; (Tween 85)	9005-70-3	120	1,300	7,900	mg/m <sup>3</sup>
2238	Thyodene; (Amylodextrin)	9005-84-9	30	330	2,000	mg/m <sup>3</sup>
2239	Polyurethane foam; (Urethane polymers)	9009-54-5	12	130	790	mg/m <sup>3</sup>
2240	Ricin	9009-86-3	8.20E-06	9.00E-05	5.40E-04	mg/m <sup>3</sup>
2241	Hexafluoropropylene-vinylidene fluoride polymer; (Viton)	9011-17-0	30	330	2,000	mg/m <sup>3</sup>
2242	Cholera toxin; (Enterotoxin, vibrio cholera)	9012-63-9	7.70E-05	8.50E-04	0.0051	mg/m <sup>3</sup>
2243	Polydimethyl siloxane; (Dimethylpolysiloxane)	9016-00-6	6.8	75	450	mg/m <sup>3</sup>
2244	Ethoxylated nonylphenol; (Nonyl phenyl polyethylene glycol ether)	9016-45-9	43	470	5,400	mg/m <sup>3</sup>

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 Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
2245	Polymethylene polyphenyl isocyanate; (Polymeric diphenylmethane diisocyanate)	9016-87-9	0.15	3.6	22	mg/m <sup>3</sup>
2246	Polyoxyethylene mono-octylphenyl ether	9036-19-5	13	140	830	mg/m <sup>3</sup>
2247	Polyoxyalkyleneamine; (Poly(oxypropylene)diamine)	9046-10-0	4.8	53	320	mg/m <sup>3</sup>
2248	Polypropylene glycol, (chloromethyl) oxirane polymer	9072-62-2	30	330	2,000	mg/m <sup>3</sup>
2249	Polyglycol 15-200; (Oxirane, 2-methyl-, polymer with oxirane, ether with 1,2,3-propanediol)	9082-00-2	30	330	2,000	mg/m <sup>3</sup>
2250	Dipotassium metasilicate	10006-28-7	3.9	43	260	mg/m <sup>3</sup>
2251	Barium nitrate	10022-31-8	2.9	350	2,100	mg/m <sup>3</sup>
2252	Cadmium nitrate tetrahydrate	10022-68-1	0.27	2.1	13	mg/m <sup>3</sup>
2253	Sodium hypochlorite pentahydrate	10022-70-5	13	140	290	mg/m <sup>3</sup>
2254	Neodymium(III) chloride	10024-93-8	0.9	9.9	59	mg/m <sup>3</sup>
2255	Nitrous oxide	10024-97-2	910	10,000	20,000	ppm
2256	Perchloric acid, zinc salt, hexahydrate	10025-64-6	0.33	3.6	22	mg/m <sup>3</sup>
2257	<b>Sulfur monochloride</b>	<b>10025-67-9</b>	<b>0.53</b>	<b>6.4</b>	<b>15</b>	ppm
2258	Tin(II) chloride dihydrate; (Stannous chloride dihydrate)	10025-69-1	11	20	760	mg/m <sup>3</sup>
2259	Chromic chloride; (Chromium(III) chloride)	10025-73-7	4.6	15	87	mg/m <sup>3</sup>
2260	Ferric chloride hexahydrate	10025-77-1	15	39	240	mg/m <sup>3</sup>
2261	<b>Trichlorosilane</b>	<b>10025-78-2</b>	<b>0.60</b>	<b>7.3</b>	<b>33</b>	ppm

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
2262	Indium trichloride	10025-82-8	0.58	6.3	38	mg/m <sup>3</sup>
2263	Trichloramine; (Nitrogen chloride)	10025-85-1	0.062	0.68	3.9	ppm
2264	<b>Phosphorus oxychloride</b>	<b>10025-87-3</b>	0.3	0.48	<b>0.85</b>	ppm
2265	Antimony trichloride; (Antimony(III) chloride)	10025-91-9	2.8	25	150	mg/m <sup>3</sup>
2266	Yttrium chloride, hexahydrate	10025-94-2	10	110	670	mg/m <sup>3</sup>
2267	<b>Tetrachlorosilane; (Silicon chloride)</b>	<b>10026-04-7</b>	<b>0.45</b>	<b>5.5</b>	<b>25</b>	ppm
2268	Tellurium chloride	10026-07-0	0.63	6.9	42	mg/m <sup>3</sup>
2269	Zirconium tetrachloride; (zirconium chloride)	10026-11-6	26	220	1,300	mg/m <sup>3</sup>
2270	Niobium chloride	10026-12-7	4.2	46	280	mg/m <sup>3</sup>
2271	Phosphorus pentachloride	10026-13-8	2.6	20	200	mg/m <sup>3</sup>
2272	Cobalt nitrate hexahydrate; (Cobaltous nitrate hexahydrate)	10026-22-9	0.3	23	140	mg/m <sup>3</sup>
2273	Cobalt sulfate heptahydrate; (Cobalt(II) sulfate(1:1), heptahydrate)	10026-24-1	0.29	19	120	mg/m <sup>3</sup>
2274	Ozone	10028-15-6	0.24	1	10	ppm
2275	Ferric sulfate; (Iron(III) sulfate)	10028-22-5	11	120	710	mg/m <sup>3</sup>
2276	Lead(II) arsenite	10031-13-7	4.2	47	280	mg/m <sup>3</sup>
2277	Lead bromide	10031-22-8	0.27	200	1,200	mg/m <sup>3</sup>
2278	Erbium nitrate pentahydrate	10031-51-3	1.4	15	88	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
2279	Thallium sulfate; (Sulfuric acid, dithallium(1+) salt)	10031-59-1	0.18	2	21	mg/m <sup>3</sup>
2280	Anhydrone; (Magnesium perchlorate)	10034-81-8	4.9	54	320	mg/m <sup>3</sup>
2281	Sodium chromate tetrahydrate	10034-82-9	0.87	15	91	mg/m <sup>3</sup>
2282	<b>Hydrogen iodide; (Hydriodic acid)</b>	<b>10034-85-2</b>	<b>1.0</b>	<b>25</b>	<b>120</b>	ppm
2283	Sodium bisulfate monohydrate	10034-88-5	0.63	7	42	mg/m <sup>3</sup>
2284	Hydrazine sulfate	10034-93-2	0.5	5.5	33	mg/m <sup>3</sup>
2285	Manganese(II) sulfate monohydrate	10034-96-5	9.2	15	90	mg/m <sup>3</sup>
2286	Magnesium sulfate heptahydrate	10034-99-8	33	370	2,300	mg/m <sup>3</sup>
2287	Calcium chloride dihydrate	10035-04-8	16	170	1,100	mg/m <sup>3</sup>
2288	Bismuth(III) nitrate, pentahydrate	10035-06-0	12	130	800	mg/m <sup>3</sup>
2289	<b>Hydrogen bromide; (Hydrobromic acid)</b>	<b>10035-10-6</b>	<b>1.0</b>	<b>40</b>	<b>120</b>	ppm
2290	Tetrafluorohydrazine	10036-47-2	2.4	110	680	ppm
2291	Hydroxylamine sulfate; (Oxammonium sulfate)	10039-54-0	2.8	31	190	mg/m <sup>3</sup>
2292	Strontium nitrate	10042-76-9	5.7	62	370	mg/m <sup>3</sup>
2293	Aluminum sulfate	10043-01-3	38	64	380	mg/m <sup>3</sup>
2294	Boric acid	10043-35-3	6	23	830	mg/m <sup>3</sup>
2295	Calcium chloride	10043-52-4	12	130	790	mg/m <sup>3</sup>

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 Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.



**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
2296	Ferric phosphate	10045-86-0	8.1	89	530	mg/m <sup>3</sup>
2297	Ferrous ammonium sulfate	10045-89-3	15	170	1,000	mg/m <sup>3</sup>
2298	Mercury nitrate; (Mercury(II) nitrate (1:2))	10045-94-0	0.12	0.16	45	mg/m <sup>3</sup>
2299	Neodymium nitrate	10045-95-1	6.2	68	410	mg/m <sup>3</sup>
2300	Barium hydrogen phosphate; (Barium phosphate dibasic)	10048-98-3	2.5	320	1,900	mg/m <sup>3</sup>
2301	<b>Chlorine dioxide</b>	<b>10049-04-4</b>	<b>0.15</b>	<b>1.1</b>	<b>2.4</b>	ppm
2302	Chromous chloride; (Chromium(II) chloride (1:2))	10049-05-5	3.5	62	370	mg/m <sup>3</sup>
2303	Ruthenium trichloride	10049-08-8	2.2	24	140	mg/m <sup>3</sup>
2304	Rhenium hexafluoride	10049-17-9	20	220	1,300	mg/m <sup>3</sup>
2305	Tellurous acid	10049-23-7	0.42	4.6	28	mg/m <sup>3</sup>
2306	Potassium peroxymonosulfate; (Peroxymonosulfuric acid, monopotassium salt)	10058-23-8	30	330	2,000	mg/m <sup>3</sup>
2307	Chromium(III) chloride, hexahydrate	10060-12-5	7.7	43	260	mg/m <sup>3</sup>
2308	Silicon(II) oxide; (Silicon oxide)	10097-28-6	30	330	2,000	mg/m <sup>3</sup>
2309	Lanthanum chloride	10099-58-8	7.1	78	470	mg/m <sup>3</sup>
2310	Lanthanum nitrate	10099-59-9	14	150	890	mg/m <sup>3</sup>
2311	Lead nitrate	10099-74-8	0.24	180	1,100	mg/m <sup>3</sup>
2312	Calcium metasilicate	10101-39-0	30	330	2,000	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
2313	Sodium permanganate	10101-50-5	7.8	13	78	mg/m <sup>3</sup>
2314	Zirconium silicate; (Zirconium silicon oxide; Zircon)	10101-52-7	21	170	1,000	mg/m <sup>3</sup>
2315	Chromic sulfate; (Chromium(III) sulfate (2:3))	10101-53-8	5.7	63	380	mg/m <sup>3</sup>
2316	Lead iodide	10101-63-0	0.33	270	1,600	mg/m <sup>3</sup>
2317	Sodium tellurate	10101-83-4	0.56	3.7	22	mg/m <sup>3</sup>
2318	Nickel sulfate hexahydrate; (Nickel(II) sulfate hexahydrate)	10101-97-0	1.3	8.7	52	mg/m <sup>3</sup>
2319	Zinc nitrite	10102-02-0	14	160	950	mg/m <sup>3</sup>
2320	Palladium nitrate	10102-05-3	30	330	2,000	mg/m <sup>3</sup>
2321	Uranyl nitrate (solid); (Bis(nitrato-O,O')dioxouranium)	10102-06-4	0.99	5.5	33	mg/m <sup>3</sup>
2322	Sodium thiosulfate pentahydrate	10102-17-7	50	550	3,300	mg/m <sup>3</sup>
2323	Sodium selenite	10102-18-8	1.3	2.3	3.1	mg/m <sup>3</sup>
2324	Sodium tellurite	10102-20-2	1.8	20	120	mg/m <sup>3</sup>
2325	Sodium molybdate dihydrate; (Disodium molybdate dihydrate)	10102-40-6	3.8	34	210	mg/m <sup>3</sup>
2326	Nitric oxide	10102-43-9	0.5	12	20	ppm
2327	<b>Nitrogen dioxide</b>	<b>10102-44-0</b>	<b>0.50</b>	<b>12</b>	<b>20</b>	ppm
2328	Thallos nitrate; (Thallium nitrate; Thallium(I) nitrate)	10102-45-1	0.078	4.3	26	mg/m <sup>3</sup>
2329	Calcium phosphate; (Tricalcium phosphate)	10103-46-5	120	1,300	7,900	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
2330	Chromium nitrate	10103-47-6	3.3	36	220	mg/m <sup>3</sup>
2331	Cadmium chloride	10108-64-2	0.16	1.2	7.6	mg/m <sup>3</sup>
2332	Cerous nitrate; (Cerium(III) nitrate)	10108-73-3	9.5	100	620	mg/m <sup>3</sup>
2333	Mercury(I) chloride; (Dimercury dichloride)	10112-91-1	0.088	0.12	33	mg/m <sup>3</sup>
2334	Cadmium sulfate	10124-36-4	0.19	1.4	8.7	mg/m <sup>3</sup>
2335	Calcium(II) nitrate	10124-37-5	1.2	13	79	mg/m <sup>3</sup>
2336	Cobalt sulfate	10124-43-3	0.16	14	84	mg/m <sup>3</sup>
2337	Potassium metaarsenite; (Potassium arsenite)	10124-50-2	1.3	14	530	mg/m <sup>3</sup>
2338	Manganese phosphate	10124-54-6	6.5	11	66	mg/m <sup>3</sup>
2339	Copper(II) chloride dihydrate; (Cupric chloride)	10125-13-0	8	89	530	mg/m <sup>3</sup>
2340	Sodium uranium oxide monohydrate; (Sodium uranate(VI) monohydrate)	10135-92-9	0.82	6.8	41	mg/m <sup>3</sup>
2341	Europium nitrate; (Europium trinitrate)	10138-01-9	11	130	760	mg/m <sup>3</sup>
2342	Ferric ammonium sulfate; (Sulfuric acid, ammonium iron(3e+) salt (2:1:1))	10138-04-2	14	160	950	mg/m <sup>3</sup>
2343	Dichloroethanol acetate, 1,2-	10140-87-1	0.15	1.7	10	ppm
2344	Cobalt nitrate; (Cobalt(II) nitrate)	10141-05-6	0.19	14	86	mg/m <sup>3</sup>
2345	Dysprosium nitrate	10143-38-1	7.2	79	470	mg/m <sup>3</sup>
2346	Dimethoxybutane, 1,3-	10143-66-5	5.2	57	340	ppm

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
2347	Erbium(III) nitrate	10168-80-6	1.1	12	70	mg/m <sup>3</sup>
2348	Gadolinium nitrate, solid	10168-81-7	11	130	750	mg/m <sup>3</sup>
2349	Ammonium bisulfite; (Ammonium hydrogen sulfite)	10192-30-0	30	330	2,000	mg/m <sup>3</sup>
2350	Ammonium sulfite	10196-04-0	30	330	2,000	mg/m <sup>3</sup>
2351	Zinc nitrate hexahydrate	10196-18-6	27	300	1,800	mg/m <sup>3</sup>
2352	Cobalt carbonyl	10210-68-1	0.3	3.3	20	mg/m <sup>3</sup>
2353	Sodium tungstate dihydrate	10213-10-2	5.4	59	360	mg/m <sup>3</sup>
2354	Sodium metasilicate pentahydrate	10213-79-3	6.6	73	440	mg/m <sup>3</sup>
2355	Propylene glycol mono-n-butyl ether; (3-Butoxy-1-propanol)	10215-33-5	3.3	36	220	ppm
2356	Molybdenum pentachloride	10241-05-1	4.3	410	2,400	mg/m <sup>3</sup>
2357	Methamidophos	10265-92-6	0.11	1.2	7.1	mg/m <sup>3</sup>
2358	Lanthanum(III) nitrate hexahydrate	10277-43-7	1.3	15	89	mg/m <sup>3</sup>
2359	<b>Boron tribromide</b>	<b>10294-33-4</b>	<b>0.33</b>	<b>13</b>	<b>40</b>	ppm
2360	Boron trichloride	10294-34-5	0.19	2.1	71	ppm
2361	Barium chromate	10294-40-3	0.15	13	77	mg/m <sup>3</sup>
2362	Cerium nitrate hexahydrate	10294-41-4	13	140	830	mg/m <sup>3</sup>
2363	Phosphorous acid, o-; (Phosphonic acid)	10294-56-1	3	30	150	mg/m <sup>3</sup>

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 Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
2364	Dialifor	10311-84-9	0.45	5	39	mg/m <sup>3</sup>
2365	Cadmium nitrate	10325-94-7	0.21	1.6	9.9	mg/m <sup>3</sup>
2366	Barium chloride dihydrate	10326-27-9	2.7	330	2,000	mg/m <sup>3</sup>
2367	Aluminum yellow 4A; (Acid yellow 99)	10343-58-5	30	330	2,000	mg/m <sup>3</sup>
2368	Sodium metaphosphate	10361-03-2	2.7	30	180	mg/m <sup>3</sup>
2369	Barium chloride	10361-37-2	2.3	280	1,700	mg/m <sup>3</sup>
2370	Bismuth hydroxide	10361-43-0	19	210	1,200	mg/m <sup>3</sup>
2371	Bismuth nitrate	10361-44-1	12	130	790	mg/m <sup>3</sup>
2372	Praseodymium nitrate	10361-80-5	5.6	61	370	mg/m <sup>3</sup>
2373	Samarium chloride	10361-82-7	1.2	13	79	mg/m <sup>3</sup>
2374	Samarium nitrate	10361-83-8	6.5	71	430	mg/m <sup>3</sup>
2375	Lithium sulfate	10377-48-7	1.8	20	120	mg/m <sup>3</sup>
2376	Lithium iodide	10377-51-2	30	330	2,000	mg/m <sup>3</sup>
2377	Magnesium nitrate; (Magnesium(II) nitrate (1:2))	10377-60-3	30	330	2,000	mg/m <sup>3</sup>
2378	Manganese(II) nitrate	10377-66-9	9.8	16	96	mg/m <sup>3</sup>
2379	Ethylenediaminetetraacetic acid, tetrasodium salt, dihydrate	10378-23-1	82	900	5,500	mg/m <sup>3</sup>
2380	Nickel(II) phosphate	10381-36-9	1.2	14	83	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
2381	Mercurous nitrate; (Mercury(I) nitrate(1:1))	10415-75-5	0.098	0.13	37	mg/m <sup>3</sup>
2382	Ferric nitrate	10421-48-4	13	140	850	mg/m <sup>3</sup>
2383	Tetramethylammonium hydroxide pentahydrate	10424-65-4	0.019	0.2	1.2	mg/m <sup>3</sup>
2384	Potassium selenite	10431-47-7	1.6	17	100	mg/m <sup>3</sup>
2385	Ethyl-2-oxazoline, 2-	10431-98-8	30	330	2,000	ppm
2386	Periodic acid	10450-60-9	0.18	2.1	12	mg/m <sup>3</sup>
2387	Strontium chloride	10476-85-4	8	88	360	mg/m <sup>3</sup>
2388	Methacrolein diacetate; (Acetic acid, 2-methyl-2-propene-1,1-diol diester)	10476-95-6	0.18	2	12	mg/m <sup>3</sup>
2389	Alpha,alpha,4-trimethyl-3-cyclohexene-1-methanol, (S)-; (alpha-Terpineol)	10482-56-1	59	650	1,000	mg/m <sup>3</sup>
2390	Cresyl violet acetate	10510-54-0	30	330	2,000	mg/m <sup>3</sup>
2391	<b>Nitrogen tetroxide</b>	<b>10544-72-6</b>	<b>0.25</b>	<b>6.2</b>	<b>10</b>	ppm
2392	Nitrogen trioxide; (Dinitrogen trioxide)	10544-73-7	0.83	20	33	ppm
2393	Sodium dichromate; (Disodium dichromate)	10588-01-9	0.38	6.5	39	mg/m <sup>3</sup>
2394	Monochloroamine; (Chloramide)	10599-90-3	0.026	0.29	1.7	ppm
2395	Lithium aluminum oxide; (Lithium aluminate)	11089-89-7	28	310	1,800	mg/m <sup>3</sup>
2396	Polychlorinated biphenyl (Aroclor 1260); (Chlorodiphenyl (60% Cl))	11096-82-5	0.41	4.5	260	mg/m <sup>3</sup>
2397	Polychlorinated biphenyl (Aroclor 1254); (Chlorodiphenyl (54% Cl))	11097-69-1	1.5	68	200	mg/m <sup>3</sup>

Compounds with unknown CASRN are issued a "z-number" for identification purposes.  
 Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
2398	Molybdic acid, ammonium salt; (Ammonium molybdate)	11098-84-3	3.5	290	1,700	mg/m <sup>3</sup>
2399	Ethyl silicate polymer; (Silicic acid, ethyl ester)	11099-06-2	30	330	2,000	mg/m <sup>3</sup>
2400	Polychlorinated biphenyl (Aroclor 1268); (Chlorodiphenyl (68% Cl))	11100-14-4	33	360	2,200	mg/m <sup>3</sup>
2401	Staphylococcal enterotoxin (SEB); including 37337-57-8 (SEA)	11100-45-1	1.90E-04	0.0021	0.013	mg/m <sup>3</sup>
2402	Polychlorinated biphenyl (Aroclor 1221); (Chlorodiphenyl (21% Cl))	11104-28-2	12	130	790	mg/m <sup>3</sup>
2403	Phosphomolybdic acid	11104-88-4	2.5	27	160	mg/m <sup>3</sup>
2404	Sodium antimonate; (Antimonic acid, sodium salt)	11112-10-0	3	27	160	mg/m <sup>3</sup>
2405	Ammonium tungstate(VI)	11120-25-5	4.1	45	270	mg/m <sup>3</sup>
2406	Tungstosilicic acid	11130-20-4	13	140	860	mg/m <sup>3</sup>
2407	Yttrium oxide	11130-29-3	3.5	40	240	mg/m <sup>3</sup>
2408	Sodium-Potassium	11135-81-2	0.5	5	50	mg/m <sup>3</sup>
2409	Sodium aluminate anhydrous; (Aluminum sodium dioxide anhydrous)	11138-49-1	18	200	1,200	mg/m <sup>3</sup>
2410	Polychlorinated biphenyl (Aroclor 1232); (Chlorodiphenyl (32% Cl))	11141-16-5	13	150	890	mg/m <sup>3</sup>
2411	Mica; (mica silicates)	12001-26-2	9	99	590	mg/m <sup>3</sup>
2412	Crocidolite	12001-28-4	0.05	1.9	160	mg/m <sup>3</sup>
2413	Paris Green; (Cupric acetoarsenite)	12002-03-8	3.4	22	130	mg/m <sup>3</sup>
2414	Mercuriol; (Mercury nucleate)	12002-19-6	1.2	13	79	mg/m <sup>3</sup>

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 Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
2415	Potassium aluminate	12003-63-3	22	240	1,400	mg/m <sup>3</sup>
2416	Lithium aluminate	12003-67-7	37	400	2,400	mg/m <sup>3</sup>
2417	Nickel aluminide	12003-78-0	0.81	8.9	53	mg/m <sup>3</sup>
2418	Tungsten boride	12007-09-9	11	120	730	mg/m <sup>3</sup>
2419	Lithium tetraborate	12007-60-2	4.3	47	280	mg/m <sup>3</sup>
2420	Ammonium pentaborate	12007-89-5	30	330	2,000	mg/m <sup>3</sup>
2421	Lanthanum boride	12008-21-8	30	330	2,000	mg/m <sup>3</sup>
2422	Iron carbide	12011-67-5	16	180	1,100	mg/m <sup>3</sup>
2423	Dawsonite; (Crystalline dehydroxy sodium aluminum, carbonate)	12011-76-6	16	170	1,000	mg/m <sup>3</sup>
2424	Molybdenum carbide	12011-97-1	34	360	2,200	mg/m <sup>3</sup>
2425	Cerium(IV) hydroxide	12014-56-1	30	330	2,000	mg/m <sup>3</sup>
2426	Gallium oxide	12024-21-4	16	180	1,100	mg/m <sup>3</sup>
2427	Thallium hydroxide	12026-06-1	0.065	3.7	22	mg/m <sup>3</sup>
2428	Tin hydroxide	12026-24-3	7.7	85	510	mg/m <sup>3</sup>
2429	Molybdophosphoric acid	12026-57-2	2.4	26	160	mg/m <sup>3</sup>
2430	Ammonium molybdophosphate	12026-66-3	2.4	27	160	mg/m <sup>3</sup>
2431	Ammonium iodide	12027-06-4	0.2	2.2	13	mg/m <sup>3</sup>

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 Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.



**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
2432	Molybdic acid, hexaammonium salt; (Ammonium heptamolybdate)	12027-67-7	2.6	230	1,400	mg/m <sup>3</sup>
2433	Indium oxide (vapor); (Diindium monoxide)	12030-22-7	0.33	3.6	22	mg/m <sup>3</sup>
2434	Potassium columbate; (Potassium niobate)	12030-85-2	9	99	590	mg/m <sup>3</sup>
2435	Potassium zirconate; (Potassium zirconium oxide; Dipotassium zirconate)	12030-98-7	24	200	1,200	mg/m <sup>3</sup>
2436	Lithium niobium oxide; (Lithium niobate)	12031-63-9	32	350	2,100	mg/m <sup>3</sup>
2437	Lutetium oxide	12032-20-1	30	330	2,000	mg/m <sup>3</sup>
2438	Silicon nitride	12033-89-5	30	330	2,000	mg/m <sup>3</sup>
2439	Sodium titanate	12034-34-3	30	330	2,000	mg/m <sup>3</sup>
2440	Ruthenium(IV) oxide	12036-10-1	14	150	910	mg/m <sup>3</sup>
2441	Technetium(IV) oxide	12036-16-7	30	330	2,000	mg/m <sup>3</sup>
2442	Tungsten(IV) oxide	12036-22-5	12	130	790	mg/m <sup>3</sup>
2443	Praseodymium oxide	12036-32-7	12	130	790	mg/m <sup>3</sup>
2444	Rhodium(III) oxide (solids)	12036-35-0	3.7	40	240	mg/m <sup>3</sup>
2445	Terbium oxide	12036-41-8	30	330	2,000	mg/m <sup>3</sup>
2446	Thulium oxide	12036-44-1	30	330	2,000	mg/m <sup>3</sup>
2447	Terbium(III,IV) oxide	12037-01-3	30	330	2,000	mg/m <sup>3</sup>
2448	Praseodymium (III, IV) oxide	12037-29-5	15	170	990	mg/m <sup>3</sup>

Compounds with unknown CASRN are issued a "z-number" for identification purposes.  
 Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
2449	Zirconium phosphide	12037-72-8	17	140	840	mg/m <sup>3</sup>
2450	Uranium telluride (U <sub>3</sub> Te <sub>4</sub> )	12040-21-0	1	8.5	51	mg/m <sup>3</sup>
2451	Titanium boride	12045-63-5	30	330	2,000	mg/m <sup>3</sup>
2452	Zirconium boride	12045-64-6	12	100	620	mg/m <sup>3</sup>
2453	Nickel(II) hydroxide; (Nickelous hydroxide)	12054-48-7	0.95	8.8	53	mg/m <sup>3</sup>
2454	Ammonium molybdate(VI) tetrahydrate	12054-85-2	2.8	30	180	mg/m <sup>3</sup>
2455	Hafnium oxide	12055-23-1	1.8	19	120	mg/m <sup>3</sup>
2456	Holmium trioxide	12055-62-8	30	330	2,000	mg/m <sup>3</sup>
2457	Lithium oxide	12057-24-8	0.091	1	6	mg/m <sup>3</sup>
2458	<b>Magnesium phosphide</b>	<b>12057-74-8</b>	0.091	<b>1.0</b>	<b>1.8</b>	ppm
2459	Manganese(VII) oxide	12057-92-0	6.1	10	60	mg/m <sup>3</sup>
2460	Sodium stannate	12058-66-1	11	120	720	mg/m <sup>3</sup>
2461	<b>Sodium phosphide</b>	<b>12058-85-4</b>	0.18	<b>2.0</b>	<b>3.6</b>	ppm
2462	Scandium oxide	12060-08-1	30	330	2,000	mg/m <sup>3</sup>
2463	Samarium(III) oxide	12060-58-1	15	170	990	mg/m <sup>3</sup>
2464	Erbium(III) oxide	12061-16-4	15	170	990	mg/m <sup>3</sup>
2465	Gadolinium(III) oxide	12064-62-9	15	170	990	mg/m <sup>3</sup>

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 Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
2466	Ferrous disulfide; (Iron disulfide)	12068-85-8	30	330	2,000	mg/m <sup>3</sup>
2467	Boron carbide	12069-32-8	2.4	27	170	mg/m <sup>3</sup>
2468	Copper(II) carbonate hydroxide (2:1:2)	12069-69-1	5.2	45	270	mg/m <sup>3</sup>
2469	Niobium(IV) carbide	12069-94-2	30	330	2,000	mg/m <sup>3</sup>
2470	Tantalum carbide	12070-06-3	11	120	730	mg/m <sup>3</sup>
2471	Titanium carbide	12070-08-5	30	330	2,000	mg/m <sup>3</sup>
2472	Tungsten carbide	12070-12-1	11	120	730	mg/m <sup>3</sup>
2473	Zirconium carbide	12070-14-3	13	110	630	mg/m <sup>3</sup>
2474	Manganese tricarbonyl methylcyclopentadienyl	12108-13-3	0.3	0.6	6.9	mg/m <sup>3</sup>
2475	Ammonium bromide	12124-97-9	8.1	89	530	mg/m <sup>3</sup>
2476	Ammonium fluoride	12125-01-8	15	160	980	mg/m <sup>3</sup>
2477	Ammonium chloride	12125-02-9	20	54	330	mg/m <sup>3</sup>
2478	Nickel(III) hydroxide; (Nickelic hydroxide)	12125-56-3	1.1	12	73	mg/m <sup>3</sup>
2479	Mercury hydroxide	12135-13-6	0.088	0.12	33	mg/m <sup>3</sup>
2480	Palladium hydroxide	12135-22-7	120	1,300	7,900	mg/m <sup>3</sup>
2481	Diammonium sulfide; (Ammonium sulfide)	12135-76-1	1	54	100	ppm
2482	Potassium oxide	12136-45-7	0.18	2	54	mg/m <sup>3</sup>

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 Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
2483	Molybdenum disilicide	12136-78-6	48	530	3,200	mg/m <sup>3</sup>
2484	Titanium(II) oxide	12137-20-1	30	330	2,000	mg/m <sup>3</sup>
2485	Rhodium oxide; (Rhodium(IV) oxide)	12137-27-8	0.039	0.43	2.6	mg/m <sup>3</sup>
2486	Uranium telluride	12138-37-3	1.2	10	62	mg/m <sup>3</sup>
2487	Sodium polytungstate	12141-67-2	14	150	920	mg/m <sup>3</sup>
2488	Potassium stannate	12142-33-5	12	140	810	mg/m <sup>3</sup>
2489	Calcium hydroxide phosphate; (Calcium phosphate tribasic)	12167-74-7	120	1,300	7,900	mg/m <sup>3</sup>
2490	Dysprosium nickelide	12175-27-8	30	330	2,000	mg/m <sup>3</sup>
2491	Phosphorus (yellow); (White phosphorus)	12185-10-3	0.3	0.91	5.5	mg/m <sup>3</sup>
2492	Sodium zirconate; (Disodium zirconium oxide)	12201-48-8	22	180	1,100	mg/m <sup>3</sup>
2493	Potassium antimonate; (Potassium hexahydroxyantimonate)	12208-13-8	3.2	28	170	mg/m <sup>3</sup>
2494	Aluminum grey LB; (Acid black 60)	12218-95-0	30	330	2,000	mg/m <sup>3</sup>
2495	Barium hydroxide octahydrate	12230-71-6	3.4	420	2,500	mg/m <sup>3</sup>
2496	Sodium bismuthate	12232-99-4	1.3	14	83	mg/m <sup>3</sup>
2497	Bismuth germanate	12233-73-7	21	240	1,400	mg/m <sup>3</sup>
2498	Sodium Tetrahydroxoaluminate	12251-53-5	26	290	1,700	mg/m <sup>3</sup>
2499	Sodium monoxide; (Sodium oxide)	12401-86-4	0.5	5	50	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
2500	Vanadyl sulfate pentahydrate; (Vanadium(IV) sulfate oxide hydrate)	12439-96-2	0.023	0.25	170	mg/m <sup>3</sup>
2501	<b>Strontium phosphide</b>	<b>12504-13-1</b>	0.091	<b>1.0</b>	<b>1.8</b>	ppm
2502	Potassium bismuthate	12589-75-2	3.3	36	220	mg/m <sup>3</sup>
2503	Nickel carbonate hydroxide; (Basic nickel(II) carbonate)	12607-70-4	1	12	69	mg/m <sup>3</sup>
2504	Chromium(VI) hydroxide	12626-43-6	0.089	7.7	46	mg/m <sup>3</sup>
2505	Molybdate orange	12656-85-8	5.4	59	350	mg/m <sup>3</sup>
2506	Polychlorinated biphenyl (Aroclor 1248); (Chlorodiphenyl (48% Cl))	12672-29-6	6.6	72	2,200	mg/m <sup>3</sup>
2507	Silver hydroxide	12673-77-7	0.035	0.4	2.4	mg/m <sup>3</sup>
2508	Polychlorinated biphenyl (Aroclor 1016); (Chlorodiphenyl (41% Cl))	12674-11-2	5.6	62	460	mg/m <sup>3</sup>
2509	Hexacarbonylchromium; (Chromium hexacarbonyl)	13007-92-6	0.13	11	66	mg/m <sup>3</sup>
2510	Nitromethane-d3; (Trideuteronitromethane)	13031-32-8	60	210	1,000	ppm
2511	Hexanediol diacrylate, 1,6-	13048-33-4	3	170	990	mg/m <sup>3</sup>
2512	Terbufos	13071-79-9	0.091	1	2.2	mg/m <sup>3</sup>
2513	Cerium(IV) nitrate	13093-17-9	30	330	2,000	mg/m <sup>3</sup>
2514	Ammonium molybdate; (Diammonium molybdate)	13106-76-8	3.1	22	130	mg/m <sup>3</sup>
2515	Rubidium nitrate	13126-12-0	14	150	920	mg/m <sup>3</sup>
2516	Nickel(II) nitrate; (Nickelous nitrate)	13138-45-9	0.93	10	61	mg/m <sup>3</sup>

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 Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
2517	Vinylformamide, N-	13162-05-5	1.2	13	79	mg/m <sup>3</sup>
2518	Phosphamidon; (Famfos)	13171-21-6	0.027	0.3	21	mg/m <sup>3</sup>
2519	Ethyl S,S-dipropylphosphorodithioate, O-; (Mocap PC-84; Ethoprophos)	13194-48-4	0.14	1.6	9.3	mg/m <sup>3</sup>
2520	Mercuric trifluoroacetate	13257-51-7	0.064	0.085	4.3	mg/m <sup>3</sup>
2521	Bis(2-methylstyryl)benzene, 4-; (1,4-Bis(2-(2-methylphenyl)ethenyl)benzene)	13280-61-0	12	130	790	mg/m <sup>3</sup>
2522	Cyclohexane-1,2-dinitrilotetraacetic acid, trans-; (CyDTA)	13291-61-7	30	330	2,000	mg/m <sup>3</sup>
2523	Borane methyl sulfide complex; (Methyl sulfide complex with borane (1:1))	13292-87-0	0.03	0.33	2	ppm
2524	Boron trifluoride dihydrate	13319-75-0	3.8	44	140	mg/m <sup>3</sup>
2525	Beryllium hydroxide	13327-32-7	0.011	0.12	0.48	mg/m <sup>3</sup>
2526	Cesium fluoride	13400-13-0	60	670	4,000	mg/m <sup>3</sup>
2527	Sodium selenate; (Disodium selenate)	13410-01-0	1.4	1.6	2	mg/m <sup>3</sup>
2528	Ammonium permanganate	13446-10-1	7.5	12	72	mg/m <sup>3</sup>
2529	Magnesium(II) nitrate (1:2), hexahydrate	13446-18-9	16	180	1,100	mg/m <sup>3</sup>
2530	Manganese(II) chloride tetrahydrate	13446-34-9	11	18	290	mg/m <sup>3</sup>
2531	Potassium molybdate; (Molybdic acid, dipotassium salt)	13446-49-6	3.7	40	240	mg/m <sup>3</sup>
2532	Gadolinium chloride hexahydrate	13450-84-5	2.2	24	140	mg/m <sup>3</sup>
2533	Gallium trichloride	13450-90-3	2.9	32	930	mg/m <sup>3</sup>

Compounds with unknown CASRN are issued a "z-number" for identification purposes.  
 Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
2534	Lead(II) perchlorate trihydrate	13453-62-8	0.33	270	1,600	mg/m <sup>3</sup>
2535	Lithium metaborate, anhydrous	13453-69-5	6	77	460	mg/m <sup>3</sup>
2536	Cesium nitrite	13454-83-6	30	330	2,000	mg/m <sup>3</sup>
2537	Cerium(III) sulfate	13454-94-9	12	130	790	mg/m <sup>3</sup>
2538	Potassium fluoride dihydrate	13455-21-5	37	420	2,500	mg/m <sup>3</sup>
2539	Potassium bi-iodate	13455-24-8	1.1	13	76	mg/m <sup>3</sup>
2540	Nickel(II) bromide	13462-88-9	1.1	12	73	mg/m <sup>3</sup>
2541	<b>Nickel carbonyl</b>	<b>13463-39-3</b>	0.0033	<b>0.036</b>	<b>0.16</b>	ppm
2542	<b>Iron pentacarbonyl</b>	<b>13463-40-6</b>	0.0055	<b>0.060</b>	<b>0.18</b>	ppm
2543	Titanium oxide; (Titanium dioxide)	13463-67-7	30	330	2,000	mg/m <sup>3</sup>
2544	Potassium arsenite; (Arsenous acid, potassium salt)	13464-35-2	2.9	32	190	mg/m <sup>3</sup>
2545	Tripotassium arsenate	13464-36-3	5.2	57	340	mg/m <sup>3</sup>
2546	Trisodium arsenate	13464-38-5	4.2	47	280	mg/m <sup>3</sup>
2547	Arsenous acid	13464-58-9	2.6	28	170	mg/m <sup>3</sup>
2548	Indium sulfate	13464-82-9	0.68	7.6	46	mg/m <sup>3</sup>
2549	Hydrazine nitrate; (Hydrazinium nitrate)	13464-97-6	0.3	39	100	mg/m <sup>3</sup>
2550	Hydroxylamine nitrate	13465-08-2	0.24	37	140	mg/m <sup>3</sup>

Compounds with unknown CASRNs are issued a "z-number" for identification purposes.  
 Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
2551	Samarium(III) chloride hexahydrate	13465-55-9	1.7	19	110	mg/m <sup>3</sup>
2552	Barium nitrite	13465-94-6	2.5	300	1,800	mg/m <sup>3</sup>
2553	Barium phosphate	13466-20-1	3	30	150	mg/m <sup>3</sup>
2554	Strontium nitrite; (Nitrous acid, strontium salt)	13470-06-9	6.4	71	240	mg/m <sup>3</sup>
2555	Titanium(III) fluoride	13470-08-1	14	150	920	mg/m <sup>3</sup>
2556	Tungsten(IV) chloride; (Tungsten tetrachloride)	13470-13-8	5.3	58	350	mg/m <sup>3</sup>
2557	Uranyl hydroxide (includes liquids)	13470-18-3	0.77	4.3	26	mg/m <sup>3</sup>
2558	Sodium perrhenate; (Rhenium(VII) sodium oxide)	13472-33-8	8.3	92	550	mg/m <sup>3</sup>
2559	Sodium pyrophosphate decahydrate	13472-36-1	8.6	96	580	mg/m <sup>3</sup>
2560	Sodium tungstate	13472-45-2	4.8	53	320	mg/m <sup>3</sup>
2561	Aluminum(III) nitrate (1:3)	13473-90-0	47	68	410	mg/m <sup>3</sup>
2562	Erbium(III) nitrate hexahydrate	13476-05-6	1.4	15	91	mg/m <sup>3</sup>
2563	Calcium(II) nitrate tetrahydrate (1:2:4)	13477-34-4	12	130	770	mg/m <sup>3</sup>
2564	Nickel(II) nitrate hexahydrate	13478-00-7	1.5	53	320	mg/m <sup>3</sup>
2565	Iron(II) chloride tetrahydrate	13478-10-9	11	120	710	mg/m <sup>3</sup>
2566	Cobalt(II) perchlorate, hexahydrate	13478-33-6	0.37	5.8	35	mg/m <sup>3</sup>
2567	Tellurium	13494-80-9	1.8	20	110	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
2568	Hansa yellow	13515-40-7	30	330	2,000	mg/m <sup>3</sup>
2569	Sodium chromate decahydrate	13517-17-4	0.99	17	100	mg/m <sup>3</sup>
2570	Sodium metasilicate nonahydrate	13517-24-3	8.9	98	590	mg/m <sup>3</sup>
2571	Iron(II) perchlorate hexahydrate	13520-69-9	19	210	1,200	mg/m <sup>3</sup>
2572	Uranyl nitrate hexahydrate	13520-83-7	1.3	7	42	mg/m <sup>3</sup>
2573	Zirconium chloride oxide octahydrate	13520-92-8	35	300	1,800	mg/m <sup>3</sup>
2574	Aluminum tris(dihydrogen phosphate); (Phosphoric acid, aluminum salt (3:1))	13530-50-2	3	33	200	mg/m <sup>3</sup>
2575	Zinc chromate; (Pigment yellow)	13530-65-9	0.03	9	54	mg/m <sup>3</sup>
2576	Neodymium bromide	13536-80-6	0.053	0.38	14	mg/m <sup>3</sup>
2577	Uranyl fluoride; (Uranium oxyfluoride)	13536-84-0	0.78	4.3	26	mg/m <sup>3</sup>
2578	Thulium chloride	13537-18-3	7	77	460	mg/m <sup>3</sup>
2579	Chromium perchlorate, hydrated	13537-21-8	10	110	670	mg/m <sup>3</sup>
2580	Iron(III) perchlorate	13537-24-1	19	210	1,200	mg/m <sup>3</sup>
2581	Chromium(III) nitrate	13548-38-4	6.9	110	640	mg/m <sup>3</sup>
2582	Ammonia-d3	13550-49-7	30	160	1,100	ppm
2583	Vanadium sulfate	13566-06-8	0.013	0.14	100	mg/m <sup>3</sup>
2584	Lithium nitrite	13568-33-7	30	330	2,000	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
2585	Lithium molybdate	13568-40-6	2.7	30	180	mg/m <sup>3</sup>
2586	Lithium deuteride	13587-16-1	0.025	0.1	0.5	mg/m <sup>3</sup>
2587	Cerium sulfate	13590-82-4	30	330	2,000	mg/m <sup>3</sup>
2588	Beryllium nitrate	13597-99-4	0.047	0.52	2.1	mg/m <sup>3</sup>
2589	Phosphonic acid	13598-36-2	1.2	13	380	mg/m <sup>3</sup>
2590	Uranium hydride; (Uranium(III) hydride)	13598-56-6	0.61	5	30	mg/m <sup>3</sup>
2591	Sodium cobaltinitrite	13600-98-1	0.41	4.6	28	mg/m <sup>3</sup>
2592	Tetraamminepalladium(II) nitrate	13601-08-6	1.2	13	79	mg/m <sup>3</sup>
2593	Sodium ferrocyanide	13601-19-9	12	16	97	mg/m <sup>3</sup>
2594	Methylnitrosopiperidine, 3-; (Piperidine, 3-methyl-1-nitroso-)	13603-07-1	30	330	2,000	ppm
2595	Zinc perchlorate	13637-61-1	24	270	1,600	mg/m <sup>3</sup>
2596	<b>Chlorine pentafluoride</b>	<b>13637-63-3</b>	0.015	<b>0.17</b>	<b>8.0</b>	ppm
2597	Nickel perchlorate	13637-71-3	1.9	20	120	mg/m <sup>3</sup>
2598	Barium metaborate	13701-59-2	2.4	300	1,800	mg/m <sup>3</sup>
2599	Vanadium(III) sulfate	13701-70-7	0.017	0.19	130	mg/m <sup>3</sup>
2600	Lanthanum fluoride	13709-38-1	26	280	1,700	mg/m <sup>3</sup>
2601	Neodymium fluoride	13709-42-7	26	300	1,800	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
2602	Potassium metaborate	13709-94-9	6.8	77	460	mg/m <sup>3</sup>
2603	Sodium metavanadate; (Sodium vanadate)	13718-26-8	0.011	0.12	84	mg/m <sup>3</sup>
2604	Sodium orthovanadate	13721-39-6	0.016	0.18	130	mg/m <sup>3</sup>
2605	Potassium ferricyanide	13746-66-2	13	18	110	mg/m <sup>3</sup>
2606	Zirconium nitrate	13746-89-9	37	320	1,900	mg/m <sup>3</sup>
2607	Sodium tetrafluoroborate(1-)	13755-29-8	11	120	720	mg/m <sup>3</sup>
2608	Ytterbium fluoride	13760-80-0	30	330	2,000	mg/m <sup>3</sup>
2609	Potassium dideuterium phosphate	13761-79-0	9.6	110	630	mg/m <sup>3</sup>
2610	Calcium chromate	13765-19-0	0.003	7.8	47	mg/m <sup>3</sup>
2611	Nickel sulfamate; (Nickel(II) sulfamate)	13770-89-3	1.3	12	71	mg/m <sup>3</sup>
2612	Sodium aluminum hydride	13770-96-2	1.2	13	80	mg/m <sup>3</sup>
2613	Calcium nitrite	13780-06-8	6.4	71	240	mg/m <sup>3</sup>
2614	Sulfuric acid-d2; (Deuteriosulfuric acid)	13813-19-9	0.2	8.7	160	mg/m <sup>3</sup>
2615	Lead fluoborate	13814-96-5	0.28	220	1,300	mg/m <sup>3</sup>
2616	Tin fluoroborate	13814-97-6	15	170	990	mg/m <sup>3</sup>
2617	Trimethoxysilyl)-1-propanamine, 3-(	13822-56-5	30	330	2,000	mg/m <sup>3</sup>
2618	Thorium(IV) nitrate	13823-29-5	2.9	32	190	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
2619	Sodium hypobromite	13824-96-9	30	330	2,000	mg/m <sup>3</sup>
2620	Thorium hydroxide	13825-36-0	30	330	2,000	mg/m <sup>3</sup>
2621	Thallium nitrite	13826-63-6	0.074	4.2	25	mg/m <sup>3</sup>
2622	Lead nitrite	13826-65-8	0.22	170	1,000	mg/m <sup>3</sup>
2623	Zirconyl nitrate; (Bis(nitrato-O)oxozirconium)	13826-66-9	25	220	1,300	mg/m <sup>3</sup>
2624	Ammonium fluoborate	13826-83-0	10	120	690	mg/m <sup>3</sup>
2625	Nitronium Tetrafluoroborate	13826-86-3	13	150	870	mg/m <sup>3</sup>
2626	Sodium sulfamate	13845-18-6	36	120	6,000	mg/m <sup>3</sup>
2627	<b>Bromine chloride</b>	<b>13863-41-7</b>	0.075	<b>0.83</b>	<b>2.5</b>	ppm
2628	Chromates	13907-45-4	0.33	5	30	mg/m <sup>3</sup>
2629	Molybdenum hexacarbonyl	13939-06-5	83	920	5,500	mg/m <sup>3</sup>
2630	Nickel fluoride, tetrahydrate	13940-83-5	1.7	19	110	mg/m <sup>3</sup>
2631	Potassium ferrocyanide; (Tetrapotassium hexacyanoferrate)	13943-58-3	14	20	120	mg/m <sup>3</sup>
2632	Butylamine, sec-; (includes 513-49-5)	13952-84-6	6	10	31	ppm
2633	Sodium deuterioxide	14014-06-3	0.5	5	50	mg/m <sup>3</sup>
2634	Ferrous sulfamate	14017-39-1	8.4	92	550	mg/m <sup>3</sup>
2635	Borane-tetrahydrofuran	14044-65-6	12	130	790	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
2636	Potassium tetrafluoroborate(1-)	14075-53-7	12	140	830	mg/m <sup>3</sup>
2637	Salcomine; (bis(Salicylaldehyde)ethylenediimine cobalt(II))	14167-18-1	3.5	39	230	mg/m <sup>3</sup>
2638	Cobalt tetraphenylporphine	14172-90-8	120	1,300	7,900	mg/m <sup>3</sup>
2639	Borate	14213-97-9	6	66	400	mg/m <sup>3</sup>
2640	Potassium orthovanadate	14293-78-8	0.021	0.23	160	mg/m <sup>3</sup>
2641	Pigment green 36	14302-13-7	12	130	790	mg/m <sup>3</sup>
2642	Lithium chromate; (Lithium chromium oxide )	14307-35-8	0.37	6.5	39	mg/m <sup>3</sup>
2643	Ammonium tartrate; (Butanedioic acid, 2,3-dihydroxy-(2R,3R)-, ammonium salt)	14307-43-8	30	330	2,000	mg/m <sup>3</sup>
2644	Strontium phosphate; (Strontium orthophosphate)	14414-90-5	32	370	2,100	mg/m <sup>3</sup>
2645	Potassium hexacyanoferrate(II) trihydrate; (Potassium ferricyanide trihydrate)	14459-95-1	16	23	140	mg/m <sup>3</sup>
2646	Cristobalite	14464-46-1	0.075	33	200	mg/m <sup>3</sup>
2647	Zirconium hydroxide	14475-63-9	17	150	870	mg/m <sup>3</sup>
2648	Lanthanum hydroxide	14507-19-8	1.2	13	79	mg/m <sup>3</sup>
2649	Neodymium nitrate, pentahydrate	14517-29-4	8.2	90	540	mg/m <sup>3</sup>
2650	Phenanthroline ferrous sulfate, 1,10-	14634-91-4	30	330	2,000	mg/m <sup>3</sup>
2651	Ethyl-2-methylheptane, 3-	14676-29-0	230	385	5,000	ppm
2652	Nitrate(s)	14797-55-8	30	330	2,000	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
2653	Silica, crystalline-quartz; (Silicon dioxide)	14808-60-7	0.075	33	200	mg/m <sup>3</sup>
2654	Lanthanum phosphate	14913-14-5	12	130	790	mg/m <sup>3</sup>
2655	Cupric nitrite	14984-71-5	7.3	79	480	mg/m <sup>3</sup>
2656	Zirconium oxynitrate hydrate	14985-18-3	27	230	1,400	mg/m <sup>3</sup>
2657	Bicyclo(2.2.1)heptane-2-carbonitrile, 5-chloro-6-(((methylamino)carbonyl)oxy)imino)-, (	15271-41-7	0.057	0.63	3.8	mg/m <sup>3</sup>
2658	Nitrilotriacetic acid, disodium salt; (Disodium nitrilotriacetate)	15467-20-6	4.4	48	290	mg/m <sup>3</sup>
2659	Disodium (2-ethylhexyl)phosphate	15505-13-2	30	330	2,000	mg/m <sup>3</sup>
2660	Potassium tellurate	15571-91-2	0.63	6.9	42	mg/m <sup>3</sup>
2661	Thallium(III) perchlorate hexahydrate	15596-83-5	0.18	10	60	mg/m <sup>3</sup>
2662	Ammonium nickel sulfate	15699-18-0	1.5	13	79	mg/m <sup>3</sup>
2663	Manganese(II) nitrate hydrate	15710-66-4	11	18	110	mg/m <sup>3</sup>
2664	Triethylammonium bicarbonate buffer ph 8.5	15715-58-9	30	330	2,000	mg/m <sup>3</sup>
2665	Cerium hydroxide	15785-09-8	21	180	1,100	mg/m <sup>3</sup>
2666	Mercurous oxide; (Mercury(I) oxide)	15829-53-5	0.078	0.1	29	mg/m <sup>3</sup>
2667	Dimethyloctane, 3,5-	15869-93-9	230	385	5,000	ppm
2668	Oxathiane, 1,4-	15980-15-1	2.6	29	170	ppm
2669	Thorium perchlorate	16045-17-3	30	330	2,000	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
2670	Dicyclohexano-18-crown-6	16069-36-6	0.41	4.5	35	mg/m <sup>3</sup>
2671	Bromo-3-chloro-5,5-dimethylhydantoin, 1-; (1-Bromo-3-chloro-5,5-dimethyl-2,4-imidazo	16079-88-2	4.2	46	280	mg/m <sup>3</sup>
2672	<b>Ethylidene norbornene</b>	<b>16219-75-3</b>	<b>0.2</b>	<b>100</b>	<b>500</b>	ppm
2673	Bis(2-ethylhexyl) phenyl phosphate	16368-97-1	0.27	2.9	17	mg/m <sup>3</sup>
2674	Monobutyl phosphite	16456-56-7	2.7	30	180	mg/m <sup>3</sup>
2675	Neodymium hydroxide	16469-17-3	1.2	13	79	mg/m <sup>3</sup>
2676	Gadolinium hydroxide	16469-18-4	12	130	790	mg/m <sup>3</sup>
2677	Bromocyclohexanol, cis-2-	16536-57-5	0.037	0.27	9.6	ppm
2678	Ethyl-6-methyl-4-phenyl-3-cyclohexene-1-carboxylic acid sodium salt, 5-; (Mebane sodi	16550-39-3	30	330	2,000	mg/m <sup>3</sup>
2679	Magnesium acetate tetrahydrate	16674-78-5	46	490	3,000	mg/m <sup>3</sup>
2680	Sodium sulfhydate; (Sodium hydrosulfide)	16721-80-5	0.088	0.96	5.8	mg/m <sup>3</sup>
2681	Potassium pyrosulfite; (Potassium metabisulfite)	16731-55-8	5.4	59	360	mg/m <sup>3</sup>
2682	Methomyl	16752-77-5	0.91	10	23	mg/m <sup>3</sup>
2683	Ceric ammonium nitrate	16774-21-3	1.2	13	79	mg/m <sup>3</sup>
2684	Potassium phosphate, dibasic trihydrate	16788-57-1	16	180	1,100	mg/m <sup>3</sup>
2685	<b>Cobalt hydrocarbonyl</b>	<b>16842-03-8</b>	0.3	<b>0.9</b>	<b>3</b>	mg/m <sup>3</sup>
2686	Lithium tetrahydroaluminate(1-); (Lithium aluminum hydride)	16853-85-3	8.4	92	550	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
2687	Potassium hexafluorosilicate; (Silicate(2-), hexafluoro-, dipotassium)	16871-90-2	0.47	5.1	31	mg/m <sup>3</sup>
2688	Fluoboric acid; (Tetrafluoroboric acid)	16872-11-0	8.7	97	580	mg/m <sup>3</sup>
2689	Tetramethyl ammonium, tetrahydroborate(1-)	16883-45-7	0.23	2.5	15	mg/m <sup>3</sup>
2690	Chloride; (Chloride(1-); Chloride ions)	16887-00-6	0.5	2	20	ppm
2691	Disodium hexafluorosilicate (2-)	16893-85-9	12	140	820	mg/m <sup>3</sup>
2692	Ammonium hexafluorosilicate; (Ammonium silicofluoride)	16919-19-0	12	130	780	mg/m <sup>3</sup>
2693	Zirconium potassium fluoride; (Potassium fluorozirconate)	16923-95-8	19	200	1,200	mg/m <sup>3</sup>
2694	Sodium borohydride	16940-66-2	0.49	5.3	32	mg/m <sup>3</sup>
2695	Dihydrogen hexachloroplatinate; (Chloroplatinic acid)	16941-12-1	0.013	3.2	19	mg/m <sup>3</sup>
2696	Lithium borohydride; (Lithium tetrahydroborate)	16949-15-8	2.2	24	150	mg/m <sup>3</sup>
2697	Silicofluoric acid; (Fluorosilicic acid)	16961-83-4	9.5	110	630	mg/m <sup>3</sup>
2698	Fluorides (as F)	16984-48-8	7.5	83	500	mg/m <sup>3</sup>
2699	Copper(II) perchlorate, dihydrate	17031-32-2	14	160	930	mg/m <sup>3</sup>
2700	Aluminum hexafluorosilicate	17099-70-6	11	120	700	mg/m <sup>3</sup>
2701	Iodine 125	17144-19-3	0.1	0.5	5	ppm
2702	Barium hydroxide	17194-00-2	1.9	230	1,400	mg/m <sup>3</sup>
2703	Methylnonane, 4-	17301-94-9	230	385	5,000	ppm

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
2704	Dimethylnonane, 4,5-	17302-23-7	230	385	5,000	ppm
2705	Dimethyldecane, 2,2-	17302-37-3	230	385	5,000	ppm
2706	<b>Butyl chloroformate, sec-</b>	<b>17462-58-7</b>	0.2	<b>2.2</b>	<b>6.7</b>	ppm
2707	Urea), N,N"-(4-methyl-1,3-phenylene)bis(N',N'-dimethyl-	17526-94-2	12	130	790	mg/m <sup>3</sup>
2708	Iminodiacetic acid, disodium salt hydrate	17593-73-6	12	130	790	mg/m <sup>3</sup>
2709	Decaborane	17702-41-9	0.75	10	100	mg/m <sup>3</sup>
2710	Formparanate	17702-57-7	0.65	7.2	43	mg/m <sup>3</sup>
2711	Tetraethylene glycol diacrylate	17831-71-9	3	27	160	mg/m <sup>3</sup>
2712	Nickel(II) nitrite	17861-62-0	0.77	8.6	51	mg/m <sup>3</sup>
2713	Potassium uranyl carbonate	17871-80-6	1.5	13	76	mg/m <sup>3</sup>
2714	Sodium triethylborohydride	17979-81-6	1.2	13	79	mg/m <sup>3</sup>
2715	Dimethyltetramethoxydisiloxane, 1,3-	18186-97-5	30	330	2,000	mg/m <sup>3</sup>
2716	Tin(IV) oxide; (Stannic oxide)	18282-10-5	7.6	85	510	mg/m <sup>3</sup>
2717	Strontium hydroxide	18480-07-4	0.75	7.6	76	mg/m <sup>3</sup>
2718	Manganese nitrite	18488-90-9	8	13	78	mg/m <sup>3</sup>
2719	Mercury nitrite; (Mercury(II) nitrite)	18541-72-5	0.11	0.15	41	mg/m <sup>3</sup>
2720	Ferrous hydroxide; (Iron(II) hydroxide)	18624-44-7	30	330	2,000	mg/m <sup>3</sup>

Compounds with unknown CASRNs are issued a "z-number" for identification purposes.  
 Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
2721	Nitilotriacetic acid, trisodium salt, monohydrate	18662-53-8	1.6	18	110	mg/m <sup>3</sup>
2722	Manganous sulfide; (Manganese(II) sulfide)	18820-29-6	4.8	7.9	47	mg/m <sup>3</sup>
2723	Molybdenum dioxide	18868-43-4	40	430	2,600	mg/m <sup>3</sup>
2724	Ethylhexyl bromide, 2-	18908-66-2	30	330	2,000	mg/m <sup>3</sup>
2725	Manganese hydroxide	18933-05-6	4.9	8.1	49	mg/m <sup>3</sup>
2726	Sodium citrate; (Monosodium citrate)	18996-35-5	4	44	270	mg/m <sup>3</sup>
2727	Cupric nitrate hemipentahydrate	19004-19-4	42	150	240	mg/m <sup>3</sup>
2728	Phosphonic acid, dioctadecyl ester	19047-85-9	9.5	100	630	mg/m <sup>3</sup>
2729	Allyl 2-chloroethyl sulfide	19155-35-2	0.034	0.38	2.3	mg/m <sup>3</sup>
2730	<b>Diborane</b>	<b>19287-45-7</b>	0.3	<b>1.0</b>	<b>3.7</b>	ppm
2731	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	mg/m <sup>3</sup>
2732	Naphthalenetrisulfonic acid sodium salt, 1,3,6-	19437-42-4	30	330	2,000	mg/m <sup>3</sup>
2733	Dimethyl cyclopentanol, 1,3-	19550-46-0	30	330	2,000	mg/m <sup>3</sup>
2734	Sodium strontium phosphate	19553-80-1	6.3	83	900	mg/m <sup>3</sup>
2735	Lithium azide	19597-69-4	30	330	2,000	mg/m <sup>3</sup>
2736	<b>Pentaborane</b>	<b>19624-22-7</b>	0.015	<b>0.14</b>	<b>0.51</b>	ppm
2737	Dodecen-1-yl)succinic anhydride, (2-; (DDSA)	19780-11-1	30	330	2,000	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
2738	Lead hydroxide	19783-14-3	0.17	140	810	mg/m <sup>3</sup>
2739	Propyl-1-butanamine, N-	20193-21-9	3.2	35	210	mg/m <sup>3</sup>
2740	Cesium oxide	20281-00-9	4.1	45	270	mg/m <sup>3</sup>
2741	Tripropylene glycol monomethyl ether; (1-(2-(2-Methoxy-1-methylethoxy)-1-methylethoxy)-	20324-33-8	2	22	75	ppm
2742	Trimethyl-2,5,8,11-tetraoxatetradecan-13-ol, 4,7,10-	20324-34-9	30	330	2,000	mg/m <sup>3</sup>
2743	Dianisidine dihydrochloride, o-; (3,3'-Dimethoxybenzidine dihydrochloride)	20325-40-0	1.2	13	79	mg/m <sup>3</sup>
2744	Iron hydroxide oxide	20344-49-4	24	260	1,600	mg/m <sup>3</sup>
2745	Zinc hydroxide	20427-58-1	6	66	400	mg/m <sup>3</sup>
2746	Copper hydroxide; (Copper(II) hydroxide, Cupric hydroxide)	20427-59-2	4.6	33	200	mg/m <sup>3</sup>
2747	Calcium sulfide	20548-54-3	12	130	790	mg/m <sup>3</sup>
2748	Sodium diethyldithiocarbamate trihydrate	20624-25-3	6	50	300	mg/m <sup>3</sup>
2749	Silver oxide	20667-12-3	0.3	93	560	mg/m <sup>3</sup>
2750	Chromium(III) oxide hydroxide; (Chromium oxyhydroxide)	20770-05-2	2.5	27	160	mg/m <sup>3</sup>
2751	<b>Potassium phosphide</b>	<b>20770-41-6</b>	0.18	<b>2.0</b>	<b>3.6</b>	ppm
2752	<b>Osmium tetroxide</b>	<b>20816-12-0</b>	6.00E-04	<b>0.0084</b>	<b>4.0</b>	ppm
2753	Methylphosphonothioic acid, S-(2-(dimethylamino)ethyl) O-ethyl ester	20820-80-8	0.0057	0.062	0.37	ppm
2754	Digoxin	20830-75-5	0.018	0.2	13	mg/m <sup>3</sup>

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 Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
2755	<b>Aluminum phosphide</b>	<b>20859-73-8</b>	1.3	<b>2.0</b>	<b>3.6</b>	ppm
2756	Cobalt hydroxide	21041-93-0	0.095	1.1	6.3	mg/m <sup>3</sup>
2757	Cadmium hydroxide	21041-95-2	0.13	0.99	6.1	mg/m <sup>3</sup>
2758	Fusariotoxin T2; (T2-Trichothecene)	21259-20-1	0.0014	0.015	0.093	mg/m <sup>3</sup>
2759	Ethylenediaminetetraacetic acid, ferric ammonium salt	21265-50-9	97	1,100	6,300	mg/m <sup>3</sup>
2760	Lithium hexafluorophosphate	21324-40-3	7.5	83	500	mg/m <sup>3</sup>
2761	Cesium hydroxide	21351-79-1	6	19	110	mg/m <sup>3</sup>
2762	Fosthietan	21548-32-3	0.43	4.7	28	mg/m <sup>3</sup>
2763	Leptophos; (Fosvel)	21609-90-5	2.7	30	53	mg/m <sup>3</sup>
2764	Aluminum hydroxide	21645-51-2	8.7	73	440	mg/m <sup>3</sup>
2765	Rhodium(III) hydroxide	21656-02-0	0.045	0.5	3	mg/m <sup>3</sup>
2766	Mercury(II) oxide; (Mercuric oxide)	21908-53-2	1.5	16	30	mg/m <sup>3</sup>
2767	Chlorthiophos	21923-23-9	0.71	7.8	9.9	mg/m <sup>3</sup>
2768	Europium(II) iodide	22015-35-6	30	330	2,000	mg/m <sup>3</sup>
2769	Copper(I) sulfide	22205-45-4	3.8	43	260	mg/m <sup>3</sup>
2770	Fenamiphos	22224-92-6	0.15	0.9	3.1	mg/m <sup>3</sup>
2771	Bismuth acetate	22306-37-2	30	330	2,000	mg/m <sup>3</sup>

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 Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
2772	Phosphorodifluoridic acid, methyl ester	22382-13-4	23	250	1,500	mg/m <sup>3</sup>
2773	Aminoacetaldehyde dimethyl acetal; (2,2-Dimethoxyethylamine)	22483-09-6	30	330	2,000	mg/m <sup>3</sup>
2774	Trifluoro-1-(2-thienyl)-1,3-butanedione, 4,4,4-, boron difluoride	22502-27-8	0.33	3.6	22	mg/m <sup>3</sup>
2775	Lithium triethylborohydride; (Super-hydride)	22560-16-3	1.2	13	79	mg/m <sup>3</sup>
2776	Calcium chloride hydrate	22691-02-7	13	140	850	mg/m <sup>3</sup>
2777	Sodium bis(2-methoxyethoxy) aluminum hydride	22722-98-1	45	500	3,000	mg/m <sup>3</sup>
2778	Ethylbenzaldehyde, 2-	22927-13-5	22	240	1,400	ppm
2779	Methyl mercury	22967-92-6	0.032	0.043	2.1	mg/m <sup>3</sup>
2780	Oxamyl	23135-22-0	0.15	1.7	4.7	mg/m <sup>3</sup>
2781	Formetamate hydrochloride	23422-53-9	0.12	1.3	7.9	mg/m <sup>3</sup>
2782	Pirimifos-ethyl	23505-41-1	2.3	25	28	mg/m <sup>3</sup>
2783	Propanol, zirconium(4+) salt, 1-	23519-77-9	36	300	1,800	mg/m <sup>3</sup>
2784	Triazofos; (Triazophos)	24017-47-8	0.25	2.8	12	mg/m <sup>3</sup>
2785	Di-tert-butyl dicarbonate	24424-99-5	0.067	0.73	4.4	mg/m <sup>3</sup>
2786	<b>Ethylhexylchloroformate, 2-</b>	<b>24468-13-1</b>	0.088	<b>0.97</b>	<b>2.9</b>	ppm
2787	Diisopropylaniline, 2,6-	24544-04-5	16	180	630	mg/m <sup>3</sup>
2788	Tripropylene glycol; (((1-Methyl-1,2-ethanediyl)bis(oxy))bispropanol)	24800-44-0	1.1	13	76	ppm

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
2789	Chlormephos	24934-91-6	0.64	7	42	mg/m <sup>3</sup>
2790	Ethylene/vinyl acetate copolmer	24937-78-8	30	330	2,000	mg/m <sup>3</sup>
2791	Glycols, polyethylene, dimethyl ether	24991-55-7	37	400	2,000	mg/m <sup>3</sup>
2792	Acrylamide, N,N'-methylenebisacrylamide copolymer	25034-58-6	30	330	2,000	mg/m <sup>3</sup>
2793	Epoxy resin; (Bisphenol A-Bisphenol A diglycidyl ether polymer)	25036-25-3	12	130	790	mg/m <sup>3</sup>
2794	Polyamide 6; (Capron; Poly(iminocarbonylpentamethylene))	25038-54-4	12	130	790	mg/m <sup>3</sup>
2795	Vinyl acrylic resin; (Vinyl acetate, polymer with n-butyl acrylate)	25067-01-0	30	330	2,000	mg/m <sup>3</sup>
2796	Epoxy resin includes EPON 1001, 1007, 820, ERL-2795	25068-38-6	90	990	5,900	mg/m <sup>3</sup>
2797	Vinylpyrrolidone/vinyl acetate copolymer	25086-89-9	1.9	21	120	mg/m <sup>3</sup>
2798	Styrene-allyl alcohol copolymer	25119-62-4	30	330	2,000	mg/m <sup>3</sup>
2799	Nadic methyl anhydride	25134-21-8	0.49	5.4	32	mg/m <sup>3</sup>
2800	Polysulfone resin	25135-51-7	30	330	2,000	mg/m <sup>3</sup>
2801	Nonyl phenol (mixed isomers, includes p-nonyl phenol, 104-40-5)	25154-52-3	4.9	53	320	mg/m <sup>3</sup>
2802	Sodium dodecylbenzenesulfonate; (Dodecyl benzene sodium sulfonate)	25155-30-0	2.1	23	87	mg/m <sup>3</sup>
2803	Trimethyl-1,3-pentanediol monoisobutyrate, 2,2,4-; (Texanol)	25265-77-4	13	140	840	mg/m <sup>3</sup>
2804	Bis(1-methylethyl)benzene; (Diisopropylbenzene)	25321-09-9	3.4	38	230	mg/m <sup>3</sup>
2805	Dinitrotoluene	25321-14-6	0.6	34	200	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
2806	Tetrachloroethane (mixed isomers)	25322-20-7	0.65	7.2	43	ppm
2807	Polyethylene glycol	25322-68-3	30	1,300	7,700	mg/m <sup>3</sup>
2808	Polypropylene glycols	25322-69-4	30	330	2,000	mg/m <sup>3</sup>
2809	<b>Diethylbenzene mixed isomers; (Dowtherm J); includes m- (141-93-5) and o- (135-</b>	<b>25340-17-4</b>	<b>10</b>	<b>100</b>	<b>500</b>	ppm
2810	Triethylbenzene (mixed isomers)	25340-18-5	3	33	200	ppm
2811	Dodecenylsuccinic anhydride	25377-73-5	0.79	8.7	52	mg/m <sup>3</sup>
2812	Tripropylene glycol methyl ether	25498-49-1	9.6	110	630	mg/m <sup>3</sup>
2813	Dinitrophenol	25550-58-7	0.25	2.7	16	mg/m <sup>3</sup>
2814	Poly(1-(2-oxo-1-pyrrolidiny)ethylene)iodine complex; (Iodine solutions)	25655-41-8	3.8	42	250	mg/m <sup>3</sup>
2815	Zirconium nitride	25658-42-8	12	97	580	mg/m <sup>3</sup>
2816	Styrenesulfonate), poly(sodium 4-	25704-18-1	48	530	3,200	mg/m <sup>3</sup>
2817	Polyethylene glycol dimethacrylate	25852-47-5	30	330	2,000	mg/m <sup>3</sup>
2818	Epoxy resin; (Epichlorhydrin, polymer with diethylene glycol)	25928-94-3	1.2	13	79	mg/m <sup>3</sup>
2819	Glycols, polyethylene, mono(p-nonylphenyl) ether	26027-38-3	4.5	49	300	mg/m <sup>3</sup>
2820	Diallyldimethylammonium chloride polymer	26062-79-3	6	65	590	mg/m <sup>3</sup>
2821	Polymaleic acid; (2-Butenedioic acid (2Z)-, homopolymer)	26099-09-2	30	330	2,000	mg/m <sup>3</sup>
2822	Lithium nitride	26134-62-3	30	160	1,100	ppm

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
2823	Terphenyls; (Diphenylbenzene)	26140-60-3	0.45	5	1,400	mg/m <sup>3</sup>
2824	Phyllomedusin	26145-48-2	30	330	2,000	mg/m <sup>3</sup>
2825	Chloro-2-methyl-4-isothiazolin-3-one, 5-	26172-55-4	0.6	6.6	40	mg/m <sup>3</sup>
2826	Carbamic acid, methyl-, O-(((2,4-dimethyl-1,3-dithiolan-2-yl)methylene)amino)-; (Tirpate	26419-73-8	0.003	0.033	0.2	mg/m <sup>3</sup>
2827	Diphenyl cresol phosphate	26444-49-5	4.3	47	280	mg/m <sup>3</sup>
2828	Methylenebis(isocyanato-benzene), 1,1'-; (Diphenyl methane diisocyanate)	26447-40-5	29	40	240	mg/m <sup>3</sup>
2829	Toluene diisocyanate (mixed isomers)	26471-62-5	0.02	0.083	0.51	ppm
2830	Dimethyldicyclopentadiene	26472-00-4	2.2	24	140	mg/m <sup>3</sup>
2831	Dodeceny succine anhydride; (Tetrapropenylsuccinic anhydride)	26544-38-7	7.7	84	510	mg/m <sup>3</sup>
2832	Poly(ethylene glycol)diacrylate	26570-48-9	1.2	13	79	mg/m <sup>3</sup>
2833	Poly(acrylamide-co-diallyldimethylammonium chloride)	26590-05-6	30	330	2,000	mg/m <sup>3</sup>
2834	Tetrahydromethyl-1,3-isobenzofurandione, 3A,4,7,7A-; (Methyltetrahydrophthalic anhyd	26590-20-5	7.7	85	510	mg/m <sup>3</sup>
2835	Sodium azide	26628-22-8	0.026	0.29	5.3	mg/m <sup>3</sup>
2836	Poly(oxy-1,2-ethanediyl), alpha-(4-octylphenyl)-omega-hydroxy-; (Polyethylene glycol m	26636-32-8	1.2	14	81	mg/m <sup>3</sup>
2837	Forane	26675-46-7	21	230	610	ppm
2838	Neodecanoic acid	26896-20-8	6	66	400	mg/m <sup>3</sup>
2839	<b>Trichloro(dichlorophenyl) silane; (Dichlorophenyltrichlorosilane)</b>	<b>27137-85-5</b>	<b>0.60</b>	<b>7.3</b>	<b>33</b>	ppm

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
2840	Dodecylbenzene sulfonic acid; (Laurylbenzenesulfonic acid)	27176-87-0	2	21	130	mg/m <sup>3</sup>
2841	Dodecylphenol, 4- (mixture of isomers)	27193-86-8	4.1	45	420	mg/m <sup>3</sup>
2842	Diisooctyl acid phosphate	27215-10-7	12	130	790	mg/m <sup>3</sup>
2843	Neodecanoic acid, calcium salt; (Calcium neodecanoate)	27253-33-4	13	147	890	mg/m <sup>3</sup>
2844	Stilbene 3; (Stilbene 420; Tinopal CBS; Disodium 4,4'-bis(2-sulfostyryl)biphenyl)	27344-41-8	8.1	89	530	mg/m <sup>3</sup>
2845	Acetic acid ethenyl ester, polymer with 1,1-bis(ethenoxy) butane and ethenol	27360-07-2	30	330	2,000	mg/m <sup>3</sup>
2846	Diammonium dimolybdate; (Ammonium molybdenum oxide)	27546-07-2	2.6	29	170	mg/m <sup>3</sup>
2847	Vanadyl sulfate; (Oxysulfatovanadium)	27774-13-6	0.015	0.16	110	mg/m <sup>3</sup>
2848	Phenol, polymer with formaldehyde, oxiranylmethyl ether	28064-14-4	30	330	2,000	mg/m <sup>3</sup>
2849	Hexamethylene diisocyanate polymer	28182-81-2	7.8	86	510	mg/m <sup>3</sup>
2850	Trinitrochlorobenzene; (Picryl chloride)	28260-61-9	30	330	2,000	mg/m <sup>3</sup>
2851	Aminoheptane, 3-; (3-Heptylamine)	28292-42-4	0.049	0.54	3.2	ppm
2852	Antimony potassium tartrate trihydrate	28300-74-5	4.1	37	220	mg/m <sup>3</sup>
2853	Xylylene dichloride	28347-13-9	0.18	2	8.8	mg/m <sup>3</sup>
2854	Diethyl (methylthiomethyl) phosphonate	28460-01-7	1.8	20	120	ppm
2855	Bromadiolone	28772-56-7	0.091	1	3.4	mg/m <sup>3</sup>
2856	Dimethylpolysilane; (Poly(dimethylsilane))	28883-63-8	0.5	0.83	2.5	ppm

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
2857	Dihydro-3-(nonenyl)-2,5-furandione	28928-97-4	30	330	2,000	mg/m <sup>3</sup>
2858	<b>HFO-1234ze; 1,3,3,3-Tetrafluoropropylene</b>	<b>29118-24-9</b>	1,400	<b>15,000</b>	<b>69,000</b>	ppm
2859	Butyl methyl-d3 ether, tert-	29366-08-3	50	570	5,300	ppm
2860	Methyl-1H-benzotriazole	29385-43-1	2	22	130	mg/m <sup>3</sup>
2861	Potassium antimonate; (Antimony potassium oxide)	29638-69-5	3.2	28	170	mg/m <sup>3</sup>
2862	Tris((hydroxymethyl)methylamino)propane-1-sulphonic acid, 3-	29915-38-6	30	330	2,000	mg/m <sup>3</sup>
2863	Propoxypropanol, n-; (Propylene glycol monpropyl ether)	30136-13-1	0.93	10	61	ppm
2864	Paraformaldehyde	30525-89-4	2	23	47	mg/m <sup>3</sup>
2865	Epoxy resin, cured; (4,4'-(1-Methylethylidene)biscyclohexanol, polymer with (chloromett	30583-72-3	30	330	2,000	mg/m <sup>3</sup>
2866	<b>Isocyanatoethyl methacrylate, 2-</b>	<b>30674-80-7</b>	0.0091	<b>0.1</b>	<b>1</b>	ppm
2867	Benzo-4,7,13,16,21,24-hexaoxa-1,10-diazabicyclo(8.8.8)hexacosane, 5,6-	31250-18-7	12	130	790	mg/m <sup>3</sup>
2868	Sodium p-tert-amylphenate; (4-(1,1-Dimethylpropyl)phenol, sodium salt)	31366-95-7	30	330	2,000	mg/m <sup>3</sup>
2869	Glyceryl monostearate; (Octadecanoic acid, monoester with 1,2,3-propanetriol)	31566-31-1	0.66	7.2	43	mg/m <sup>3</sup>
2870	Samarium(II) iodide solution	32248-43-4	12	130	790	mg/m <sup>3</sup>
2871	Octadecyl methacrylate	32360-05-7	30	330	2,000	mg/m <sup>3</sup>
2872	Cobalt nitrite	32486-57-0	0.15	1.7	10	mg/m <sup>3</sup>
2873	Sodium hexahydroxoantimonate; (Sodium antimonate)	33908-66-6	3	27	160	mg/m <sup>3</sup>

Compounds with unknown CASRN are issued a "z-number" for identification purposes.  
 Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
2874	Butanol-d10, n-	34193-38-9	60	800	8,000	ppm
2875	Dihydro-4-methyl furan, 2,3-	34314-83-5	12	130	790	mg/m <sup>3</sup>
2876	Phenol red, sodium salt	34487-61-1	12	130	790	mg/m <sup>3</sup>
2877	Dipropylene glycol methyl ether	34590-94-8	150	1,700	9,900	ppm
2878	Iron(III) sulfate heptahydrate	35139-28-7	28	310	1,900	mg/m <sup>3</sup>
2879	Saxitoxin	35523-89-8	2.10E-05	2.30E-04	0.0014	mg/m <sup>3</sup>
2880	Amino-4,6-dinitrotoluene, 2-	35572-78-2	4.2	46	280	mg/m <sup>3</sup>
2881	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	mg/m <sup>3</sup>
2882	Camphorsulfonic acid, (1R)-(-)-10-	35963-20-3	30	330	2,000	mg/m <sup>3</sup>
2883	Uranyl nitrate (yellow salt)	36478-76-9	0.99	5.5	33	mg/m <sup>3</sup>
2884	Hexadecanol, 1-	36653-82-4	1.6	18	110	mg/m <sup>3</sup>
2885	Vanadium(II) sulfate heptahydrate	36907-42-3	0.025	0.27	190	mg/m <sup>3</sup>
2886	Oxone, monopersulfate compound	37222-66-5	30	330	2,000	mg/m <sup>3</sup>
2887	Polyethylene glycol 20M	37225-26-6	30	1,300	7,700	mg/m <sup>3</sup>
2888	Metaphosphoric acid	37267-86-0	30	330	2,000	mg/m <sup>3</sup>
2889	Polychlorinated biphenyl (Aroclor 1262); (Chlorodiphenyl (62% Cl))	37324-23-5	34	370	2,200	mg/m <sup>3</sup>
2890	Sodium nickel oxide (Liquid)	37367-09-2	0.7	7.6	46	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
2891	Ammonium hydrogen oxalate hemihydrate	37541-72-3	30	330	2,000	mg/m <sup>3</sup>
2892	Disodium ethylenediaminediacetate (S and U isomers)	38011-25-5	30	330	2,000	mg/m <sup>3</sup>
2893	Diisopropylnaphthalene; (Bis(isopropyl)naphthalene)	38640-62-9	5.6	61	370	mg/m <sup>3</sup>
2894	Diamino-6-(2'-methylimidazol-1-yl)ethyl-s-triazine, 2,4-; (1,3,5-Triazine-2,4-diamine, 6-(2-	38668-46-1	30	330	2,000	mg/m <sup>3</sup>
2895	Butyl-2-methylcyclopropane, T-1-	38851-70-6	30	330	2,000	mg/m <sup>3</sup>
2896	Octachlorodibenzofuran, 1,2,3,4,6,7,8,9-	39001-02-0	0.43	4.7	28	mg/m <sup>3</sup>
2897	Thiofanox; (Dacamox)	39196-18-4	0.77	8.5	51	mg/m <sup>3</sup>
2898	Hexachlorodibenzodioxin, 1,2,3,4,7,8-; (HexaCDD, 1,2,3,4,7,8-)	39227-28-6	0.0013	0.014	0.085	mg/m <sup>3</sup>
2899	Antimony hydroxide	39349-74-1	2.1	18	110	mg/m <sup>3</sup>
2900	Aerosol, A-102; (Poly(oxy-1,2-ethanediy), alpha-(3-carboxy-1-oxo-3-sulfopropyl)-omeg	39354-45-5	92	1,000	6,100	mg/m <sup>3</sup>
2901	Magnesium carbonate-magnesium hydroxide, pentahydrate	39409-82-0	45	500	3,000	mg/m <sup>3</sup>
2902	Titanium aluminide	39410-63-4	8.3	92	550	mg/m <sup>3</sup>
2903	Poly[oxy(methyl-1,2-ethanediy)], alpha-hydro-omega-(2-aminomethylethoxy)-, ether wi	39423-51-3	30	330	2,000	mg/m <sup>3</sup>
2904	Nickel carbonate hydroxide; (Basic nickel carbonate tetrahydrate)	39430-27-8	1.3	28	170	mg/m <sup>3</sup>
2905	Chromium(III) acetate hydroxide	39430-51-8	8	89	530	mg/m <sup>3</sup>
2906	Pentachlorodibenzo-p-dioxin, 1,2,3,7,8-	40321-76-4	1.30E-04	0.0014	0.0085	mg/m <sup>3</sup>
2907	<b>Lewisite 2; (Bis(2-chlorovinyl)chloroarsine)</b>	<b>40334-69-8</b>	0.023	<b>0.25</b>	<b>0.74</b>	mg/m <sup>3</sup>

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 Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
2908	<b>Lewisite 3; (Tris(2-chlorovinyl)arsine)</b>	<b>40334-70-1</b>	0.023	<b>0.25</b>	<b>0.74</b>	mg/m <sup>3</sup>
2909	Dimethyl(1-phenylethyl)benzene	40766-31-2	2	23	410	mg/m <sup>3</sup>
2910	Tin nitrate	41480-79-9	12	140	820	mg/m <sup>3</sup>
2911	Nabumetone; (Relafen; 4-(6-Methoxy-2-naphthyl)-2-butanone)	42924-53-8	1.5	16	620	mg/m <sup>3</sup>
2912	Trimethylolpropane ethoxylate	50586-59-9	30	330	2,000	mg/m <sup>3</sup>
2913	<b>Agent VX; (Ethyl-S-dimethylaminoethyl methylphosphonothiolate)</b>	<b>50782-69-9</b>	<b>1.60E-05</b>	<b>2.70E-04</b>	<b>9.10E-04</b>	ppm
2914	Potassium nickel oxide (liquids); (Nickel potassium oxide)	50811-97-7	0.86	9.6	57	mg/m <sup>3</sup>
2915	Tetrachlorodibenzofuran, 2,3,7,8-	51207-31-9	4.30E-04	0.0046	0.028	mg/m <sup>3</sup>
2916	Molybdophosphoric acid hydrate; (Phosphomolybdic acid hydrate)	51429-74-4	2.4	27	160	mg/m <sup>3</sup>
2917	Giemsa's stain; (Blood stain)	51811-82-6	30	330	2,000	mg/m <sup>3</sup>
2918	Ethyl-5-methylheptane, 3-	52896-90-9	230	385	5,000	ppm
2919	Tetramethylammonium silicate	53116-81-7	30	330	2,000	mg/m <sup>3</sup>
2920	Satratoxin H	53126-64-0	0.0046	0.051	0.3	mg/m <sup>3</sup>
2921	Potassium strontium phosphate	53201-92-6	16	180	1,000	mg/m <sup>3</sup>
2922	Polychlorinated biphenyl (Aroclor 1242); (Chlorodiphenyl (42% Cl))	53469-21-9	3	140	840	mg/m <sup>3</sup>
2923	Tetrachlorodibenzo-p-dioxin, 1,2,3,8-	53555-02-5	0.003	0.033	0.2	mg/m <sup>3</sup>
2924	Pyriminil; (Pyriminyl)	53558-25-1	0.56	6.2	380	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
2925	Tetramethylbenzidine, 3,3',5,5'-	54827-17-7	0.44	4.9	29	mg/m <sup>3</sup>
2926	Calcium trifluoromethanesulfonate	55120-75-7	22	250	1,500	mg/m <sup>3</sup>
2927	Monochlorophenyl ether	55398-86-2	1.5	35	210	mg/m <sup>3</sup>
2928	Butyl-3-iodo-2-propynylcarbamate	55406-53-6	3.3	36	220	mg/m <sup>3</sup>
2929	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	mg/m <sup>3</sup>
2930	Trimethyl-2-hexene, 4,4,5-	55702-61-9	30	330	2,000	mg/m <sup>3</sup>
2931	Pentachlorodibenzofuran, 2,3,4,7,8-	57117-31-4	4.30E-04	0.0046	0.028	mg/m <sup>3</sup>
2932	Pentachlorodibenzofuran, 1,2,3,7,8-	57117-41-6	0.0043	0.046	0.28	mg/m <sup>3</sup>
2933	Hexachlorodibenzofuran, 1,2,3,6,7,8-	57117-44-9	0.0013	0.014	0.085	mg/m <sup>3</sup>
2934	Hypophosphorous acid-d3; (Hydrophosphorus acid-d3 solution, 50 wt.% in D2O)	57583-56-9	30	330	2,000	mg/m <sup>3</sup>
2935	Hexachlorodibenzo-p-dioxin, 1,2,3,6,7,8-	57653-85-7	0.0013	0.014	0.085	mg/m <sup>3</sup>
2936	Ethyl O-2-diisopropylaminoethylmethylphosphonite, O-; (QL)	57856-11-8	30	330	2,000	mg/m <sup>3</sup>
2937	Dichloro(4,4-dimethylzinc -5((((methylamino)carbonyl)oxy)imino)pentanenitrile), (trans-4	58270-08-9	0.82	9	54	mg/m <sup>3</sup>
2938	Hexamethylenetetraamine hydrochloride	58713-21-6	30	330	2,000	mg/m <sup>3</sup>
2939	Methyl acetylene-propadiene mixture; (MAPP)	59355-75-8	1,250	2,500	15,000	ppm
2940	Styrene-divinylbenzene resin, chloromethylated, aminated with trimethylamine; (Bio-Ra	60177-39-1	30	330	2,000	mg/m <sup>3</sup>
2941	Cobalt(II) sulfate hydrate	60459-08-7	0.18	1.9	12	mg/m <sup>3</sup>

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 Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.

**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
2942	Dibutylboron triflate; (Dibutylboryl trifluoromethanesulfonate)	60669-69-4	36	400	2,400	mg/m <sup>3</sup>
2943	Monosodium titanate	60704-88-3	30	330	2,000	mg/m <sup>3</sup>
2944	Hexachlorodibenzofuran, 2,3,4,6,7,8-	60851-34-5	0.0013	0.014	0.085	mg/m <sup>3</sup>
2945	Antioxidant G-16 (most toxic antioxidant)	61373-87-3	0.98	11	65	mg/m <sup>3</sup>
2946	Hydrogenated terphenyl	61788-32-7	1.5	47	280	ppm
2947	Estane; (Polyurethane resin; Urethane rubber)	61789-63-7	30	330	2,000	mg/m <sup>3</sup>
2948	Sulfonic acids, petroleum; (Petrolatum acid sulfonate)	61789-85-3	30	330	2,000	mg/m <sup>3</sup>
2949	Mastic (resin)	61789-92-2	20	220	1,300	mg/m <sup>3</sup>
2950	Naphthenic acid, lead salt	61790-14-5	15	170	1,000	mg/m <sup>3</sup>
2951	Dv methyl ester; (Methyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate)	61898-95-1	30	330	2,000	mg/m <sup>3</sup>
2952	Ethyl-2-methyloctane, 6-	62016-19-7	230	385	5,000	ppm
2953	Tripotassium (2-hydroxyethyl)ethylenediaminetriacetate; (Tripotassium HEDTA)	62029-50-9	30	330	2,000	mg/m <sup>3</sup>
2954	Cobalt, ((2,2'-(1,2-ethanediybis(nitrilomethylidene))bis(6-fluorophenolato))(2-)-N,N',O,O	62207-76-5	0.27	3	5.7	mg/m <sup>3</sup>
2955	Trimethyldecane, all isomers; (includes 62238-01-1, 62108-23-0)	62338-09-4	230	385	5,000	ppm
2956	Polymethylhydrosiloxane; (Methyl hydrogen polysiloxane)	63148-57-2	30	330	2,000	mg/m <sup>3</sup>
2957	Dimethyl siloxane; (Dimethylpolysiloxane; Syltherm XLT; Syltherm 800; Silicone 360)	63148-62-9	65	720	4,300	mg/m <sup>3</sup>
2958	Alkylamines	63231-48-1	30	330	2,000	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
2959	Silica gel	63231-67-4	18	200	1,200	mg/m <sup>3</sup>
2960	Aliquat 336; (Adogen 464; Quaternary ammonium compounds, tri(C8-10)-alkylmethyl-,	63393-96-4	2.3	25	150	mg/m <sup>3</sup>
2961	Siloprene k 1000 (Polydimethylsiloxane rubber)	63394-02-5	12	130	790	mg/m <sup>3</sup>
2962	Bis(2-chloroethylthio)methane	63869-13-6	0.08	0.17	2.7	mg/m <sup>3</sup>
2963	Bis(2-chloroethylthio)-n-propane, 1,3-	63905-10-2	0.1	0.19	3	mg/m <sup>3</sup>
2964	Bis(2-chlorethylthioethyl) ether; (2,2'-Di(3-chloroethylthio)diethyl ether)	63918-89-8	0.12	1.3	7.6	mg/m <sup>3</sup>
2965	Bis(2-chloroethylthiomethyl)ether	63918-90-1	0.1	0.2	3.1	mg/m <sup>3</sup>
2966	Trimethyl-2-oxeapanone (mixed isomers); (Hexanoic acid, 6-hydroxytrimethyl, epsilon-lactone)	64047-30-9	22	250	1,500	mg/m <sup>3</sup>
2967	Trisodium arsenate, heptahydrate; (Arsenic(V) acid, trisodium salt, heptahydrate (1:3:7))	64070-83-3	6.8	75	450	mg/m <sup>3</sup>
2968	Disodium butylphosphate	64114-42-7	30	330	2,000	mg/m <sup>3</sup>
2969	Bis(tris(hydroxymethyl)methylamino)propane, 1,3-; (Bis-tris propane)	64431-96-5	30	330	2,000	mg/m <sup>3</sup>
2970	Sodium tolyltriazole; (1H-Benzotriazole, 4(or 5)-methyl-, sodium salt)	64665-57-2	1.9	21	130	mg/m <sup>3</sup>
2971	Naphtha, hydrotreated heavy; (Isopar L-rev 2)	64742-48-9	350	1,800	40,000	mg/m <sup>3</sup>
2972	Naphtha (petroleum),hydrotreated light	64742-49-0	1,000	11,000	66,000	mg/m <sup>3</sup>
2973	Distillates (petroleum) hydrotreated heavy naphthenic	64742-52-5	140	1,500	8,900	mg/m <sup>3</sup>
2974	Pump oil; (petroleum distillates, solvent de-waxed heavy paraffinic)	64742-65-0	140	1,500	8,900	mg/m <sup>3</sup>
2975	Petroleum coke, calcined	64743-05-1	30	330	2,000	mg/m <sup>3</sup>

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 Chemicals with AEGLs: large, bolded font. ERPGs (but no AEGLs): bolded font.



**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
2976	Chlorsulfuron	64902-72-3	3.9	43	260	mg/m <sup>3</sup>
2977	Percoll	65455-52-9	30	330	2,000	mg/m <sup>3</sup>
2978	Zonyl fsn fluorosurfactant	65545-80-4	41	460	2,700	mg/m <sup>3</sup>
2979	Polypropylene glycol, polytetramethylene glycol, 1,3-diisocyanatomethylbenzene polym	65636-36-4	30	330	2,000	mg/m <sup>3</sup>
2980	Modeccin toxin; (Adenia digitata toxin)	65988-88-7	5.40E-06	5.90E-05	3.60E-04	mg/m <sup>3</sup>
2981	Coal tar pitch volatiles; (Particulate polycyclic aromatic hydrocarbons)	65996-93-2	0.6	120	700	mg/m <sup>3</sup>
2982	Fibrous glass; (Fiber glass; Glass frit; Synthetic vitreous fibers)	65997-17-3	15	170	990	mg/m <sup>3</sup>
2983	Sodium uranate; (Disodium uranate hexahydrate)	66018-57-3	0.94	7.8	47	mg/m <sup>3</sup>
2984	Fatty acids, tall-oil, polymers with glycerol, pentaerythritol and phthalic anhydride	66070-62-0	12	130	790	mg/m <sup>3</sup>
2985	Triphenylmethane triglycidyl ether	66072-38-6	30	330	2,000	mg/m <sup>3</sup>
2986	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	mg/m <sup>3</sup>
2987	Siloxanes and silicones, dimethyl, reaction products with silica; (Hydrophobic silicon dio	67762-90-7	120	1,300	7,900	mg/m <sup>3</sup>
2988	Siloxanes and silicones, methyl phenyl; (Silicon Y-6607; Silicone fluid, high temp)	67762-92-9	1.6	17	100	mg/m <sup>3</sup>
2989	Poly(melamine-co-formaldehyde), methylated	68002-20-0	44	490	2,900	mg/m <sup>3</sup>
2990	Decene, 1-, homopolymer, hydrogenated	68037-01-4	30	330	2,000	mg/m <sup>3</sup>
2991	Methylhydrosiloxane (3-4%) + dimethylsiloxane (96-97%) copolymer	68037-59-2	30	330	2,000	mg/m <sup>3</sup>
2992	Poly(dimethylsiloxane), ethoxylated, dihydroxy terminated; (Silicon oil polymer)	68037-63-8	120	1,300	7,900	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
2993	Methylvinylsiloxane-dimethylsiloxane copolymer, vinyl terminated	68083-18-1	30	330	2,000	mg/m <sup>3</sup>
2994	Poly(dimethylsiloxane), vinyl dimethylsiloxy terminated	68083-19-2	48	530	3,200	mg/m <sup>3</sup>
2995	Polyurethane prepolymer of MDI and PEP	68092-58-0	30	330	2,000	mg/m <sup>3</sup>
2996	Tall oil (alkyd resin)	68333-62-0	30	330	2,000	mg/m <sup>3</sup>
2997	Alkanes, C4-C12	68333-81-3	230	385	5,000	ppm
2998	Diesel fuels; (includes diesel fuel No. 4 (68476-31-3), fuel oil No.2 (68476-30-2), fuel oil	68334-30-5	300	3,300	20,000	mg/m <sup>3</sup>
2999	Alkylbenzyltrimethyl ammonium chloride, (C12-C18)	68391-01-5	0.61	6.8	60	mg/m <sup>3</sup>
3000	C-18 Unsaturated fatty acid, dimers, reaction products with polyethylenepolyamines; (V	68410-23-1	30	330	2,000	mg/m <sup>3</sup>
3001	Chlorinated polyolefins	68410-99-1	30	330	2,000	mg/m <sup>3</sup>
3002	Nonylphenoxypolyethoxyethanol	68412-54-4	30	330	2,000	mg/m <sup>3</sup>
3003	Quaternary ammonium compounds, benzyl-C12-C16-alkyldimethyl, chlorides	68424-85-1	1.3	14	84	mg/m <sup>3</sup>
3004	Ethoxylated alcohols, C16-18; (Nonionic surfactant)	68439-49-6	3.8	42	250	mg/m <sup>3</sup>
3005	Liquified petroleum gas; (L.P.G.)	68476-85-7	65,000	2.30E+05	4.00E+05	ppm
3006	Alcohols, C6-C12 (N.O.S.)	68603-15-6	30	330	2,000	mg/m <sup>3</sup>
3007	Adipic acid, diethylene glycol, trimethylolpropane, phthalic anhydride, toluenediisocyanate	68609-57-4	30	330	2,000	mg/m <sup>3</sup>
3008	Alkylbenzene (C10-C16)	68648-87-3	2.3	26	150	mg/m <sup>3</sup>
3009	Poly alpha olefin; (Synthetic hydrocarbon mixture, PAO; Hydrogenated trimer and tetramer)	68649-12-7	2	22	130	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
3010	Alamine 336	68814-95-9	17	180	1,100	mg/m <sup>3</sup>
3011	Lithium silicon	68848-64-6	46	500	3,100	mg/m <sup>3</sup>
3012	Sodium polyphosphate	68915-31-1	9.2	100	600	mg/m <sup>3</sup>
3013	Methylchlorodisilane; (Chloromethylsilane)	68937-17-7	0.067	0.73	4.4	ppm
3014	Vinyl terminated dimethylsiloxane-diphenylsiloxane copolymer	68951-96-2	120	1,300	7,900	mg/m <sup>3</sup>
3015	<b>Polyethylbenzene residue; (Dowtherm Q)</b>	<b>68987-42-8</b>	14	<b>150</b>	900	ppm
3016	Zeolites, CaA	68989-20-8	30	330	2,000	mg/m <sup>3</sup>
3017	Zeolites, KA	68989-21-9	30	330	2,000	mg/m <sup>3</sup>
3018	Zeolites, NaA	68989-22-0	30	330	2,000	mg/m <sup>3</sup>
3019	Zeolites, NaX	68989-23-1	30	330	2,000	mg/m <sup>3</sup>
3020	Ethoxylated alcohols, C7-C21	68991-48-0	30	330	2,000	mg/m <sup>3</sup>
3021	Poly(styrene-co-divinylbenzene); (Dowex Optipore V-502)	69011-14-9	30	330	2,000	mg/m <sup>3</sup>
3022	Diethenylbenzene, polymer with ethenylbenzene and ethenylethylbenzene, sulfonated;	69011-20-7	120	1,300	7,900	mg/m <sup>3</sup>
3023	Rexyn I-300; (Ethylene glycol dimethacrylate polymer with styrene, chloromethylated, tr	69011-49-0	30	330	2,000	mg/m <sup>3</sup>
3024	Silica, amorphous fume	69012-64-2	45	500	3,000	mg/m <sup>3</sup>
3025	Bis[(benzo-15-crown-5)-15-ylmethyl] pimelate	69271-98-3	30	330	2,000	mg/m <sup>3</sup>
3026	Dimethyl(polysiloxane); (Polydimethylsiloxane, silanol terminated; Dimethylsiloxane, po	70131-67-8	190	2,100	13,000	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
3027	Hexachlorodibenzofuran, 1,2,3,4,7,8-	70648-26-9	0.0013	0.014	0.085	mg/m <sup>3</sup>
3028	<b>Propylene glycol monomethyl ether acetate, beta-isomer; (2-Methoxypropoyl-1-ac</b>	<b>70657-70-4</b>	<b>50</b>	<b>1,000</b>	<b>5,000</b>	ppm
3029	Quaternary ammonium compounds, coco alkylbis(hydroxyethyl)methyl, chlorides; (Meth	70750-47-9	1.2	13	79	mg/m <sup>3</sup>
3030	<b>Jet fuels, (JP-5 and JP-8); (Kerosene, 8008-20-6, Fuel Oil No. 1)</b>	<b>70892-10-3</b>	<b>290</b>	<b>1,100</b>	4,800	mg/m <sup>3</sup>
3031	Poly(dimethylsiloxane), hydride terminated	70900-21-9	30	330	2,000	mg/m <sup>3</sup>
3032	Toluene diisocyanate, trimethylolpropane, epsilon-caprolactone polymer, methylated	71342-93-3	30	330	2,000	mg/m <sup>3</sup>
3033	Quaternary ammonium compounds, coco alkylbis(hydroxyethyl)methyl, nitrates (salts);	71487-00-8	1.2	13	79	mg/m <sup>3</sup>
3034	Diurethane dimethacrylate	72869-86-4	120	1,300	7,900	mg/m <sup>3</sup>
3035	Hexachlorodibenzofuran, 1,2,3,7,8,9-; (HexaCDF, 1,2,3,7,8,9-)	72918-21-9	0.0013	0.014	0.085	mg/m <sup>3</sup>
3036	CAPSO	73463-39-5	30	330	2,000	mg/m <sup>3</sup>
3037	Sodium aluminum silicate; sodium aluminosilicate (1344-00-9)	73987-94-7	30	330	2,000	mg/m <sup>3</sup>
3038	Ethoxyimino)butyl)-5-(2-ethylthiopropyl)-3-hydroxycyclohex-2-en-1-one, 2-(1-; (Checkm	74051-80-2	9.6	110	630	mg/m <sup>3</sup>
3039	Lithium triethylborodeuteride; (Super-deuteride)	74540-86-6	30	330	2,000	mg/m <sup>3</sup>
3040	Shigella, shigatoxin; (shiga-like toxins)	75757-64-1	1.50E-06	1.60E-05	9.70E-05	mg/m <sup>3</sup>
3041	Jeffamine M-600	77110-54-4	30	330	2,000	mg/m <sup>3</sup>
3042	Vinyl 2-chloroethylsulfide; (2-Chloroethylthio ethene)	81142-02-1	0.034	0.38	2.3	mg/m <sup>3</sup>
3043	Tributyltetradecylphosphonium chloride	81741-28-8	30	330	2,000	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
3044	Trimethyl-N'-(hydroxyethyl)-1,3-propanediamine, N,N,N'-; (2-((3-(Dimethylamino)propyl)	82136-26-3	30	330	2,000	mg/m <sup>3</sup>
3045	Octyl(phenyl)-N,N-diisobutylcarbamoylmethylphosphine oxide	83242-95-9	30	330	2,000	mg/m <sup>3</sup>
3046	Viscumin; (Mistletoe lectin)	83590-17-4	7.70E-06	8.50E-05	5.10E-04	mg/m <sup>3</sup>
3047	Nonyl phenol, 4- (branched)	84852-15-3	3.9	43	260	mg/m <sup>3</sup>
3048	<b>Gasoline</b>	<b>86290-81-5</b>	<b>200</b>	<b>1,000</b>	<b>4,000</b>	ppm
3049	Perfluoro compounds, C5-C18; (Fluorinert electronic liquid perfluoro compounds); inclu	86508-42-1	120	1,300	7,900	mg/m <sup>3</sup>
3050	Volkensin	91933-11-8	3.70E-07	4.00E-06	2.40E-05	mg/m <sup>3</sup>
3051	Cesium metaborate	92141-86-1	6.8	77	460	mg/m <sup>3</sup>
3052	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	mg/m <sup>3</sup>
3053	Perlite; (Fused NaKAl silicate, < 1% quartz)	93763-70-3	15	230	1,400	mg/m <sup>3</sup>
3054	Pentaerythritol tetra(3-mercaptopropionate), reaction products with 2-(hydroxymethyl)-2	95823-35-1	30	330	2,000	mg/m <sup>3</sup>
3055	Trimethyloctane, all isomers; (includes 62016-28-8, 62016-34-6, 62016-37-9, 54166-32	98060-52-7	230	385	5,000	ppm
3056	Tin nitrite	100737-27-7	11	120	710	mg/m <sup>3</sup>
3057	Microcystins	101043-37-2	9.00E-04	0.0099	0.048	mg/m <sup>3</sup>
3058	<b>Otto Fuel (mainly Propylene glycol dinitrate 6423-43-4)</b>	<b>106602-80-6</b>	<b>0.17</b>	<b>1.0</b>	<b>13</b>	ppm
3059	Hydroxy-4'-hydroxyethoxy-2-methylpropiophenone, 2-	106797-53-9	12	130	810	mg/m <sup>3</sup>
3060	Triaryl sulfonium chloride salts	109037-76-5	1.1	12	72	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
3061	Silica gel, amorphous synthetic	112926-00-8	18	200	1,200	mg/m <sup>3</sup>
3062	Silica, amorphous fumed	112945-52-5	18	100	630	mg/m <sup>3</sup>
3063	Sodium hypophosphite hydrate	123333-67-5	5.2	57	340	mg/m <sup>3</sup>
3064	Nonylphenol, 4-, branched, ethoxylated	127087-87-0	30	330	2,000	mg/m <sup>3</sup>
3065	Sodium uranyl carbonate	128578-60-9	2.5	20	120	mg/m <sup>3</sup>
3066	Decafluoropentane, 1,1,1,2,3,4,4,5,5,5-	138495-42-8	36	400	500	ppm
3067	Epibatidine	140111-52-0	1.00E-04	0.0011	0.0068	mg/m <sup>3</sup>
3068	Bis(2-chloroethylthio)-n-butane, 1,4-	142868-93-7	0.1	0.2	3.2	mg/m <sup>3</sup>
3069	Bis(2-chloroethylthio)-n-pentane, 1,5-	142868-94-8	0.11	0.21	3.4	mg/m <sup>3</sup>
3070	Conotoxins (α)	156467-85-5	0.2	2.2	13	mg/m <sup>3</sup>
3071	Cs7SB; (1-(2,2,3,3-Tetrafluoropropoxy)-3-(4-sec-butylphenoxy)-2-propanol)	308362-88-1	33	370	2,200	mg/m <sup>3</sup>
3072	Tetanus toxin	676570-37-9	6.60E-09	7.20E-08	4.30E-07	mg/m <sup>3</sup>
3073	Ammonium hexachlorohydrate (III)	z-0001	120	1,300	7,900	mg/m <sup>3</sup>
3074	Butyl bis(2-ethylhexyl)phosphate	z-0002	0.96	11	63	ppm
3075	Cerous nitrite	z-0004	30	330	2,000	mg/m <sup>3</sup>
3076	Chloropicrin/Methyl chloride mixture	z-0007	0.05	0.15	1.4	mg/m <sup>3</sup>
3077	Dibutyl (2-ethylhexyl)phosphate	z-0011	21	230	1,400	ppm

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
3078	Dipotassium cadmium oxide	z-0013	0.2	1.5	9.3	mg/m <sup>3</sup>
3079	Dipotassium dihydrogen silicate	z-0014	30	330	2,000	mg/m <sup>3</sup>
3080	Disodium cadmium oxide	z-0016	0.17	1.3	8	mg/m <sup>3</sup>
3081	Disodium dihydrogen silicate	z-0017	30	330	2,000	mg/m <sup>3</sup>
3082	Ecolite	z-0018	16	170	1,000	mg/m <sup>3</sup>
3083	Ethyl (or dimethyl) pyrrolidine	z-0020	30	330	2,000	mg/m <sup>3</sup>
3084	Gadolinium nitrite	z-0022	30	330	2,000	mg/m <sup>3</sup>
3085	Germanous acid	z-0023	30	330	2,000	mg/m <sup>3</sup>
3086	Lanthanum alizarin	z-0026	30	330	2,000	mg/m <sup>3</sup>
3087	Leco set 7007 powder	z-0027	30	330	2,000	mg/m <sup>3</sup>
3088	Neodymium nitrite	z-0033	30	330	2,000	mg/m <sup>3</sup>
3089	Oil gas; (Oil fog)	z-0035	13	140	860	ppm
3090	Organorhodium complex	z-0036	0.087	0.8	4.8	mg/m <sup>3</sup>
3091	PBX (mixture of HMX and nitrocellulose [CTN])	z-0038	30	330	2,000	mg/m <sup>3</sup>
3092	Permafluor E+	z-0039	140	360	2,200	mg/m <sup>3</sup>
3093	Permafluor-V (85+% toluene)	z-0040	67	560	3,700	ppm
3094	Polychlorinated biphenyl (Aroclor 1016/1242): (Chlorodiphenyl (37% Cl))	z-0042	13	140	860	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
3095	Polychlorinated biphenyl (Aroclor 1260/1262): (Chlorodiphenyl (61% Cl))	z-0043	0.41	4.5	260	mg/m <sup>3</sup>
3096	Potassium antimonite	z-0045	2.8	25	150	mg/m <sup>3</sup>
3097	Potassium argentate	z-0046	0.05	0.56	3.4	mg/m <sup>3</sup>
3098	Potassium beryllium oxide	z-0047	0.018	0.2	0.8	mg/m <sup>3</sup>
3099	Potassium cadminate	z-0048	0.23	1.7	11	mg/m <sup>3</sup>
3100	Potassium hydrogen lead oxide	z-0049	0.2	160	940	mg/m <sup>3</sup>
3101	Potassium hydrogen pyrophosphate	z-0050	54	600	1,100	mg/m <sup>3</sup>
3102	Potassium hydrogen metasilicate	z-0051	30	330	2,000	mg/m <sup>3</sup>
3103	Potassium iminodiacetate; (Potassium IDA)	z-0052	3.9	44	260	ppm
3104	Potassium lanthanate	z-0053	30	330	2,000	mg/m <sup>3</sup>
3105	Potassium nickelate	z-0055	1	12	69	mg/m <sup>3</sup>
3106	Potassium trihydrogen silicate	z-0058	30	330	2,000	mg/m <sup>3</sup>
3107	Sodium antimonite	z-0061	2.6	23	140	mg/m <sup>3</sup>
3108	Sodium argentate	z-0062	0.046	0.5	3	mg/m <sup>3</sup>
3109	Sodium beryllium oxide	z-0063	0.014	0.16	0.62	mg/m <sup>3</sup>
3110	Sodium butyl (2-ethylhexyl)phosphate	z-0064	13	140	860	mg/m <sup>3</sup>
3111	Sodium butyl butylphosphonate	z-0065	0.017	0.19	1.1	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
3112	Sodium cadminate	z-0066	0.4	3	9.5	mg/m <sup>3</sup>
3113	Sodium hydrogen lead oxide	z-0067	0.19	150	890	mg/m <sup>3</sup>
3114	Sodium hydrogen metasilicate	z-0068	3.1	34	210	mg/m <sup>3</sup>
3115	Sodium hydrogen pyrophosphate	z-0069	4.7	52	320	mg/m <sup>3</sup>
3116	Sodium lanthanate	z-0070	30	330	2,000	mg/m <sup>3</sup>
3117	Sodium nickelate	z-0073	0.88	9.6	57	mg/m <sup>3</sup>
3118	Sodium trihydrogen silicate	z-0076	30	330	2,000	mg/m <sup>3</sup>
3119	Thorium nitrite	z-0079	30	330	2,000	mg/m <sup>3</sup>
3120	Titanium-based alloy; (Titanium compounds)	z-0081	30	330	2,000	mg/m <sup>3</sup>
3121	Uranyl nitrite (liquids)	z-0087	0.91	5	30	mg/m <sup>3</sup>
3122	Zirconium nitrite	z-0088	30	250	1,500	mg/m <sup>3</sup>
3123	Zirconium silane	z-0089	16	140	810	mg/m <sup>3</sup>
3124	zzAcrylic latex	z-0090	30	330	2,000	mg/m <sup>3</sup>
3125	zzAlumination 301	z-0091	30	330	2,000	mg/m <sup>3</sup>
3126	zzHydranal coulomat / AG	z-0092	30	330	2,000	mg/m <sup>3</sup>
3127	zzHydrocarbon polymer	z-0093	30	330	2,000	mg/m <sup>3</sup>
3128	zzHydrocount®, LSC cocktail	z-0094	130	920	2,500	ppm

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
3129	zzIconol®	z-0095	30	330	2,000	mg/m <sup>3</sup>
3130	zzMonophase- S	z-0097	30	330	2,000	mg/m <sup>3</sup>
3131	zzMornar	z-0098	30	330	2,000	mg/m <sup>3</sup>
3132	zzOpti-Fluor; (Alkyl benzene blend, 3% tributylphosphate)	z-0099	1.2	13	79	mg/m <sup>3</sup>
3133	zzPropanol (-2) aluminum derivative	z-0101	6	66	400	mg/m <sup>3</sup>
3134	zzSicapent	z-0103	30	330	2,000	mg/m <sup>3</sup>
3135	Alkenyl dimethylethyl ammonium bromide; (Aliphatic hydrocarbon)	z-0108	1.5	17	99	mg/m <sup>3</sup>
3136	Alkyl benzenes (C8-C9)	z-0109	30	330	2,000	mg/m <sup>3</sup>
3137	BoBCalix; (Calix[4]arene-bis(t-octylbenzo-crown-b))	z-0110	30	330	2,000	mg/m <sup>3</sup>
3138	Aromatic isocyanate mixture "SWD 305A"	z-0111	0.15	3.6	22	mg/m <sup>3</sup>
3139	Polyether polyol ester	z-0112	7.9	87	520	mg/m <sup>3</sup>
3140	Isonate 181 MDI prepolymer	z-0113	0.45	5.5	55	mg/m <sup>3</sup>
3141	Benzenesulfonic acid, 5-chloro-2	z-0114	1.5	17	99	mg/m <sup>3</sup>
3142	Polyisocyanate prepolymer	z-0115	0.45	5	55	mg/m <sup>3</sup>
3143	<b>Magnesium aluminum phosphide</b>	<b>z-0116</b>	0.061	<b>0.67</b>	<b>1.2</b>	ppm
3144	Succinimidyl-6-(beta-maleimidopropionamido)hexanoate; (SMPH)	z-0120	30	330	2,000	mg/m <sup>3</sup>
3145	Cube Resin other than Rotenone	z-0122	30	330	2,000	mg/m <sup>3</sup>

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**Table 3: Protective Action Criteria (PAC) Rev. 29**  
**Based on applicable 60-minute AEGLs, ERPGs, or TEELs (Chemicals listed by CASRN)**

No.	Chemical Name	CASRN	PACs based on AEGLs, ERPGs, or TEELs			
			PAC-1	PAC-2	PAC-3	Units
3146	<b>Methyl nonafluorobutyl ether (40%) and Methyl nonafluoroisobutyl ether</b>	<b>163702-07-6</b> <b>163702-08-7</b>	<b>2,500</b>	<b>8,200</b>	<b>15,000</b>	ppm

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