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Adopted Rule 7-27-00

Amend Env-A 1450.01, table 1450-1, effective 5-8-98 (Doc. #6739-B), by inserting, “1-hexene”, “ethyl cyanoacrylate”, “nickel subsulfide”, and new CAS numbers for “pentane”, and amending other regulated toxic air pollutants, so that the following regulated toxic air pollutants in Table 1450-1 read as follows:

CAS Number	Description	OEL (mg/m ³)	Toxicity Class ^A	Time Category ^B	24-Hr AAL (ug/m ³)	Annual AAL (ug/m ³)	24-Hr Deminimus ^C (lb/hr)	Annual Deminimus (lb/yr)
0-00-0	Coal Dust	2	H	D	10	6.707	9.42E-04	2.20E+01
<i>0-00-0</i>	<i>Coal Dust (bituminous)</i>	<i>0.9</i>	<i>II</i>	<i>D</i>	<i>4.527</i>	<i>3.018</i>	<i>4.24E-04</i>	<i>9.90E+00</i>
<i>0-00-0</i>	<i>Coal Dust (anthracite)</i>	<i>0.4</i>	<i>II</i>	<i>D</i>	<i>2.012</i>	<i>1.341</i>	<i>1.88E-04</i>	<i>4.40E+00</i>
0-00-00	Polytetrafluorethylene Polytetrafluoroethylene, decomp. products		II	D				**
0-00-0	Vegetable Vegetable Oil Mist	10	II	A	417	99	3.90E-02	3.25E+02
57-74-9	Chlordane	0.5	I	D	1.786	1.190 <i>0.700</i>	1.67E-04	3.91E+00 <i>2.30E+00</i>
<i>78-78-4</i>	<i>Pentane</i>	<i>1770</i>	<i>III</i>	<i>B</i>	<i>36875</i>	<i>17560</i>	<i>3.45E+00</i>	<i>5.76E+04</i>
80-62-6	Methyl Methacrylate	410	I	D	1464	976 <i>700</i>	1.37E-01	3.20E+03 <i>2.30E+03</i>
91-20-3	Naphthalene	52	I	D	186	124 <i>3</i>	1.74E-02	4.06E+02 <i>9.84E+00</i>
96-22-0	Diethyl ketone	705	II	A <i>B</i>	9930 <i>4965</i>	2364	9.30E-01 <i>4.65E-01</i>	7.76E+03
106-92-3	Allyl glycidyl ether	23 <i>4.67</i>	II	D	116 <i>23</i>	77 <i>16</i>	1.08E-02 <i>2.20E-03</i>	2.53E+02 <i>5.14E+01</i>
137-05-3	Methyl 2-cyanoacrylate	9.1 <i>0.91</i>	II	D	46 <i>4.577</i>	22 <i>3.052</i>	4.62E-03 <i>4.29E-04</i>	7.11E+01 <i>1.00E+00</i>
<i>463-82-1</i>	<i>Pentane</i>	<i>1770</i>	<i>III</i>	<i>B</i>	<i>36875</i>	<i>17560</i>	<i>3.45E+00</i>	<i>5.76E+04</i>
<i>592-41-6</i>	<i>1-Hexane</i>	<i>103</i>	<i>III</i>	<i>A</i>	<i>4292</i>	<i>1022</i>	<i>4.02E-01</i>	<i>3.35E+03</i>
1304-56-9	Beryllium Oxide (as beryllium)	0.002	I	D	0.007 <i>0.02</i>	0.005 <i>0.02</i>	6.69E-07 <i>1.87E-06</i>	1.56E-02 <i>6.56E-02</i>
4170-30-3	Crotonaldehyde	5.7 <i>0.86</i>	I	D	20 <i>3.071</i>	14 <i>2.048</i>	1.91E-03 <i>2.88E-04</i>	4.45E+01 <i>6.72E+00</i>
<i>7085-85-0</i>	<i>Ethyl cyanoacrylate</i>	<i>1</i>	<i>III</i>	<i>A</i>	<i>42</i>	<i>9.921</i>	<i>3.90E-03</i>	<i>3.25E+01</i>

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Adopted Rule 7-27-00

CAS Number	Description	OEL (mg/m³)	Toxicity Class^A	Time Category^B	24-Hr AAL (ug/m³)	Annual AAL (ug/m³)	24-Hr Deminimus^C (lb/hr)	Annual Deminimus (lb/yr)
7440-41-7	Beryllium <i>and cmpds (as Be)</i>	0.002	I	D	0.007 0.02	0.005 0.02	6.69E-07 1.87E-06	1.56E-02 6.56E-02
<i>12035-72-2</i>	<i>Nickel subsulfide (as Ni)</i>	<i>0.1</i>	<i>I</i>	<i>D</i>	<i>0.357</i>	<i>0.238</i>	<i>3.34E-05</i>	<i>7.81E-01</i>

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Adopted Rule 12-17-01

Amend Env-A 1450.01, table 1450-1, effective 5-8-98 (Document #6739B), as amended effective 9-22-00 (Document #7345), by inserting “methyl vinyl ketone,” “vinyl fluoride,” “vinylidene fluoride,” “bis(2-dimethylaminoethyl)ether (DMAEE),” “ethyl tert-butyl ether (ETBE),” “flour dust,” “p,p’-oxybis(benzenesulfonyl hydrazide),” “pentyl acetate (all isomers),” “tetrafluoroethylene,” deleting the individual ambient air limits for sec-Amyl acetate and n-Amyl acetate, and amending other regulated toxic air pollutants, so that the following regulated toxic air pollutants in Table 1450-1 read as follows:

CAS Number	Description	OEL (mg/m ³)	Toxicity Class ^A	Time Category ^B	24-Hr AAL (ug/m ³)	Annual AAL (ug/m ³)	24-Hr Deminimus ^C (lb/hr)	Annual Deminimus (lb/yr)
	<i>Flour Dust</i>	<i>5.0</i>	<i>III</i>	<i>A</i>	<i>21</i>	<i>4.960</i>	<i>1.95E-03</i>	<i>1.63E+01</i>
	<i>Pentyl acetate (all isomers)***</i>	<i>2663</i>	<i>III</i>	<i>A</i>	<i>11096</i>	<i>2642</i>	<i>1.14E+00</i>	<i>8.67E+03</i>
75-01-4	Vinyl chloride	43 <i>2.60</i>	I	D	46 100	34 <i>100</i>	4.35E-03 <i>9.36E-03</i>	1.02E+02 <i>3.28E+02</i>
<i>75-02-5</i>	<i>Vinyl fluoride</i>	<i>1.90</i>	<i>I</i>	<i>D</i>	<i>6.786</i>	<i>4.524</i>	<i>6.35E-04</i>	<i>1.48E+01</i>
75-05-8	Acetonitrile	67	I	D	239	160 <i>60</i>	2.24E-02	5.23E+02 <i>1.97E+02</i>
<i>75-38-7</i>	<i>Vinylidene fluoride</i>	<i>1310</i>	<i>III</i>	<i>A</i>	<i>54583</i>	<i>12996</i>	<i>5.11E+00</i>	<i>4.26E+04</i>
75-99-0	2,2-dichloropropionic acid	5.8 5.0	III	D	86 74	58 50	8.08E-03 <i>6.97E-03</i>	1.89E+02 <i>1.63E+02</i>
<i>78-94-4</i>	<i>Methyl vinyl ketone</i>	<i>0.573</i>	<i>I</i>	<i>C</i>	<i>2.292</i>	<i>1.364</i>	<i>2.15E-04</i>	<i>4.48E+00</i>
<i>80-51-3</i>	<i>p,p’-oxybis(benzenesulfonyl hydrazide)</i>	<i>0.1</i>	<i>III</i>	<i>A</i>	<i>4.167</i>	<i>0.992</i>	<i>3.90E-04</i>	<i>3.25E+00</i>
80-62-6	Methyl methacrylate	420 <i>205</i>	I	D	1464 732	700	1.37E-01 <i>6.85E-02</i>	2.30E+03
98-82-8	Cumene	246	II	D	1237	400	1.16E-01	2.71E+03 <i>1.31E+03</i>
107-18-6	Allyl alcohol	4.8 <i>1.2</i>	I	D	17 <i>4.286</i>	11 <i>2.857</i>	1.61E-03 <i>4.01E-04</i>	3.75E-01 <i>9.37E-04</i>
108-31-6	Maleic anhydride	4 <i>0.4</i>	II	D	5.030 <i>2.012</i>	3.353 <i>1.341</i>	4.71E-04 <i>1.88E-04</i>	3.39E+03 <i>4.40E+00</i>
111-76-2	2-butoxyethanol	121 <i>96.7</i>	I	D	432 <i>13000</i>	288 <i>13000</i>	4.05E-02 <i>1.22E+00</i>	9.45E+02 <i>4.27E+04</i>
<i>116-14-3</i>	<i>Tetrafluoroethylene</i>	<i>8.2</i>	<i>III</i>	<i>B</i>	<i>171</i>	<i>81</i>	<i>1.60E-02</i>	<i>2.67E+02</i>
123-91-1	Dioxane	90 <i>72.1</i>	I	D	321 <i>258</i>	214 <i>172</i>	3.01E-02 <i>2.41E-02</i>	7.03E+02 <i>5.63E+02</i>

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Adopted Rule 12-17-01

CAS Number	Description	OEL (mg/m ³)	Toxicity Class ^A	Time Category ^B	24-Hr AAL (ug/m ³)	Annual AAL (ug/m ₃)	24-Hr Deminimus ^C (lb/hr)	Annual Deminimus (lb/yr)
<i>123-92-2</i>	<i>Isopentyl acetate (see pentyl acetate)</i>							
141-32-2	n-butyl acrylate	52 10.5	I	B	260 52	124 25	2.43E-02 4.92E-03	4.06E+02 8.20E+01
593-60-2	Vinyl bromide	22 2.2	I	D	79 7.857	3	7.36E-03 7.36E-04	9.84E+00
<i>620-11-1</i>	<i>3-amyl acetate (see pentyl acetate)</i>							
<i>624-41-9</i>	<i>1-butanol, 2-methyl-acetate (see pentyl acetate)</i>							
<i>625-16-1</i>	<i>Tert-amyl acetate (see pentyl acetate)</i>							
626-38-0	Sec-amyl acetate (<i>see pentyl acetate</i>)	665	III	D	9896	6597	9.27E-01	2.16E+04
628-63-7	n-amyl acetate (<i>see pentyl acetate</i>)	532	II	D	2676	1784	2.51E-01	5.85E+03
<i>637-92-3</i>	<i>Ethyl tert-butyl ether (ETBE)</i>	20.9	II	B	147	70	1.38E-02	2.3E+02
<i>3033-62-3</i>	<i>Bis(2-dimethylaminoethyl)ether (DMAEE)</i>	0.328	I	B	1.640	0.781	1.54E-04	2.56E+00
14808-60-7	Quartz	0.1 0.05	II	D	0.503 0.357	0.168 0.238	4.71E-05 3.34E-05	1.10E+00 7.81E-01

*** *The isomers comprising pentyl acetate are: CAS Number 123-92-2, isopentyl acetate; CAS Number 620-11-1, 3-Amyl acetate; CAS Number 624-41-9, 1-Butanol, 2-methyl-, acetate; CAS Number 625-16-1, tert-Amyl acetate; CAS Number 626-38-0, sec-Amyl acetate; and CAS Number 628-63-7, n-Amyl acetate. The ambient air limits for pentyl acetate are for emissions of any individual isomer, should only one isomer be emitted, or for any mixture of isomers if more than one is present.*

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Adopted Rule 4-11-03

Amend Env-A 1450.01, table 1450-1, effective 5-8-98 (document #6739 B), as amended effective 9-22-00 (document #7345), as amended 12-28-01 (document #7616), by inserting “Glyoxal,” “molybdenum, as Mo; (metal and insoluble) inhalable,” “molybdenum, as Mo; (metal and insoluble) respirable,” “refractory ceramic fibers,” and “polyethylene glycol,” and amending other regulated toxic air pollutants, so that the following regulated toxic air pollutants in Table 1450-1 read as follows:

CAS Number	Description	OEL (mg/m3)	Toxicity Class	Time Category	24-Hr AAL (µg/m3)	Annual AAL (µg/m3)	24-Hr Deminimis (lbs/hr day)	Annual Deminimis (lbs/yr)
<i>00-00-0</i>	<i>Refractory ceramic fibers</i>		<i>I</i>		<i>0.71</i>	<i>0.48</i>	<i>0.0056</i>	<i>2.0</i>
75-56-9	<i>Propylene oxide</i>	48	I	⊕	171 <i>30</i>	30	1.61E-02 <i>0.24</i>	9.84E+01 <i>86</i>
77-47-4	<i>Hexachlorocyclopentadiene (HCCPD)</i>	0.11	II	⊕	0.553 <i>0.55</i>	0.369 <i>0.20</i>	5.18E-05 <i>0.0043</i>	1.21E+00 <i>1.6</i>
<i>107-22-2</i>	<i>Glyoxal</i>		<i>II</i>		<i>0.70</i>	<i>0.34</i>	<i>0.0055</i>	<i>2.0</i>
128-37-0	2,6-Di-Tert-butyl-p-cresol <i>Butylated hydroxytoluene (BHT)</i>	10	II	⊕	50 <i>10</i>	34	4.71E-03 <i>0.079</i>	1.10E+02 <i>294</i>
7439-98-7	Molybdenum, <i>as Mo</i> ; (Soluble compounds) <i>respirable</i>	5	I	⊕	18 <i>1.8</i>	12 <i>1.2</i>	1.67E-03 <i>0.014</i>	3.91E+01 <i>5.2</i>
7439-98-7	Molybdenum, <i>as Mo</i> ; (metal and insoluble) Compounds <i>inhalable</i>	10	I	⊕	36	24	3.34E-03 <i>0.28</i>	7.81E+01 <i>103</i>
<i>7439-98-7</i>	<i>Molybdenum, as Mo; (metal and insoluble) respirable</i>		<i>I</i>		<i>11</i>	<i>7.1</i>	<i>0.087</i>	<i>32</i>
7440-47-3	Chromium, water soluble (<i>Cr VI</i>)	0.05	I	⊕	0.179 <i>0.18</i>	0.119 <i>0.12</i>	1.67E-05 <i>0.0014</i>	3.91E-01 <i>0.51</i>
7440-47-3	Chromium, metal (<i>Cr III compounds</i>)	0.5	I	⊕	1.786 <i>1.8</i>	1.190 <i>1.2</i>	1.67E-04 <i>0.014</i>	3.91E+00 <i>5.1</i>
7440-47-3	Chromium, insoluble (<i>Cr VI compounds</i>)	0.01	I	⊕	0.036	0.024	3.34E-06 <i>0.00028</i>	7.81E-02 <i>0.10</i>
8052-42-4	Asphalt (petroleum) fume (<i>as total particulate</i>)	5	II	⊕	25	17	2.35E-03 <i>0.20</i>	5.50E+01 <i>72</i>
<i>25322-68-3</i>	<i>Polyethylene glycol</i>		<i>III</i>		<i>208</i>	<i>99</i>	<i>1.6</i>	<i>597</i>

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Adopted Rule 6-11-04

CAS Number	Description	Toxicity Class ^A	24-Hr AAL (µg/m ³)	Annual AAL (µg/m ³)	24-Hr De Minimis ^B (lbs/day)	Annual De Minimis (lbs/yr)
52 – 68 – 6	<i>Trichlorophon</i>	<i>I</i>	3.6	2.4	0.028	10
56 – 38 – 2	Parathion	I	0.36 0.18	0.24 0.12	0.0028 0.0014	1.0 0.51
62 – 73 – 7	Dichlorvos	I	3.2 0.50	0.50	0.025 0.0039	8.2 1.4
67 – 63 – 0	Isopropyl alcohol <i>Isopropanol</i>	II I	4945 1757	3296 1171	39 14	14194 5044
71 – 36 – 3	n-Butanol	II	856 305	510 203	6.7 2.4	2458 875
75 – 01 – 4	Vinyl chloride	I	100 9.3	100 6.2	0.79 0.073	287 27
75 – 05 – 8	Acetonitrile	I	239 120	60	1.9 0.94	686 344
75 – 35 – 4	Vinylidene chloride	II	101 200	67 200	0.79 1.6	289 574
75 – 56 – 9	Propylene oxide	I	30 17	30 11	0.24 0.13	86 48
78 – 34 – 2	Dioxathion	I	0.71 0.36	0.48 0.24	0.0056 0.0028	2.0 1.0
78 – 89 – 7	<i>2-Chloro-1-propanol</i>	<i>II</i>	27	13	0.21	78
80 – 56 – 8	<i>Pinene (alpha)</i>	<i>II</i>	558	372	4.4	1603
88 – 12 – 0	<i>N-Vinyl-2-pyrrolidone</i>	<i>II</i>	3.4	2.3	0.027	10
95 – 47 – 6	Xylene, o-isomers	I	1550	1033 100	12	4449 1641
105 – 60 – 2	Caprolactam, dust	I	3.6 18	2.4 12	0.028 0.14	10 51
105 – 60 – 2	Caprolactam, vapor	I	82	55	0.65	236
106 – 42 – 3	Xylene, p-isomers	I	1550	1033 100	12	4449 1641

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Adopted Rule 6-11-04

CAS Number	Description	Toxicity Class ^A	24-Hr AAL (µg/m ³)	Annual AAL (µg/m ³)	24-Hr De Minimis ^B (lbs/day)	Annual De Minimis (lbs/yr)
106 – 99 – 0	1,3 Butadiene	I	16 2	10 2	0.12 0.016	45 5.7
108 – 10 – 1	Methyl isobutyl ketone (<i>MIBK</i>)	I	1025 3000	488 3000	8.1 24	2942 8612
108 – 21 – 4	Isopropyl Acetate	III	21667 8708	10317 4147	170 68	62197 24998
108 – 38 – 3	Xylene, m-isomers	I	1550	1033 100	12	4449 1641
108 – 94 – 1	Cyclohexanone	II	503 404	335 269	4.0 3.2	1444 1159
110 – 82 – 7	Cyclohexane	II	5181 1731	3454 1154	41 14	14873 4970
121 – 75 – 5	Malathion	I	36 3.6	24 2.4	0.28 0.028	103 10
123 – 38 – 6	Propionaldehyde	II	239	159	1.9	‡ 686
124 – 38 – 9	Carbon dioxide	II	45272	30181	356	129958
127 – 00 – 4	1-Chloro-2-propanol	II	28	13	0.21	78
127 – 91 – 3	Pinene (beta)	II	558	372	4.4	1603
141 – 66 – 2	Dicrotophos	I	0.89 0.18	0.60 0.12	0.0070 0.0014	2.6 0.51
149 – 57 – 5	2-Ethylhexanoic acid	I	18	12	0.14	51
298 – 04 – 4	Disulfoton	I	0.36 0.18	0.24 0.12	0.0028 0.0014	1.0 0.51
300 – 76 – 5	Naled	II	15 0.50	10 0.34	0.12 0.0040	43 1.4
333 – 41 – 5	Diazinon	I	0.36 0.036	0.24 0.024	0.0028 0.00028	1.0 0.10
409 – 21 – 2	Silicon carbide: <i>non fibrous (inhalable fraction)</i>	II	50	34	0.40	144
409 – 21 – 2	Silicon carbide: fibrous	I	0.36	0.24	0.0028	1.0

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Adopted Rule 6-11-04

CAS Number	Description	Toxicity Class ^A	24-Hr AAL ($\mu\text{g}/\text{m}^3$)	Annual AAL ($\mu\text{g}/\text{m}^3$)	24-Hr De Minimis ^B (lbs/day)	Annual De Minimis (lbs/yr)
409 – 21 – 2	<i>Silicon carbide: non fibrous (respirable fraction)</i>	II	15	10	0.12	43
542 – 56 – 3	<i>Isobutyl nitrite</i>	II	24	14	0.19	68
563 – 12 – 2	Ethion	I	1.4 0.18	0.95 0.12	0.011 0.0014	4.1 0.51
592 – 41 – 6	1-Hexene	III	4292 3669	4022 1747	34 29	12320 10532
646 – 06 – 0	<i>1,3-Dioxolane</i>	II	427	203	3.4	1225
919 – 86 – 8	<i>Demeton-S-methyl</i>	I	0.18	0.12	0.0014	0.51
994 – 05 – 8	<i>Tert-Amyl methyl ether (TAME)</i>	II	421	280	3.3	1207
1304 – 56 – 9	Beryllium Oxide (as beryllium)	I	0.020 0.0071	0.020 0.0048	0.00016 0.000056	0.057 0.021
1314 – 13 – 2	Zinc oxide dust	II	50	34	0.40	144
1314 – 13 – 2	Zinc oxide fume	II	25	17	0.20	72
1330 – 20 – 7	Xylene	I	1550	1033 100	12	4449 1641
2921 – 88 – 2	Chlorpyrifos	I	0.71 0.36	0.48 0.24	0.0056 0.0028	2.1 1.0
6923 – 22 – 4	Monocrotophos	I	0.89 0.18	0.60 0.12	0.0070 0.0014	2.6 0.51
7440 – 41 – 7	Beryllium and cmpds (as Be)	I	0.20 0.0071	0.20 0.0048	0.00016 0.000056	0.057 0.021
7647 – 01 – 0	Hydrogen chloride	I	27 20	20	0.21 0.084	77 31
8006 – 64 – 2	Turpentine	II	3915 558	1865 372	31 4.4	11240 1603
8008 – 20 – 6	Kerosene	II	503 1006	335 671	4.0 7.9	1444 2888
8065 – 48 – 3	Demeton	I	0.39 0.18	0.26 0.12	0.0031 0.0014	1.1 0.51
13071 – 79 – 9	<i>Terbufos</i>	I	0.036	0.024	0.00028	0.10

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Adopted Rule 6-11-04

CAS Number	Description	Toxicity Class ^A	24-Hr AAL ($\mu\text{g}/\text{m}^3$)	Annual AAL ($\mu\text{g}/\text{m}^3$)	24-Hr De Minimis ^B (lbs/day)	Annual De Minimis (lbs/yr)
<i>13466 – 78 – 9</i>	<i>3-Carene</i>	<i>II</i>	<i>558</i>	<i>372</i>	<i>4.4</i>	<i>1603</i>
<i>64742 – 47 – 8</i>	<i>Jet fuels</i>	<i>II</i>	<i>1006</i>	<i>671</i>	<i>7.9</i>	<i>2888</i>
<i>68334 – 30 – 5</i>	<i>Diesel fuel (as total hydrocarbons)(diesel oil)</i>	<i>III</i>	<i>2083</i>	<i>992</i>	<i>16</i>	<i>5980</i>
<i>68476 – 30 – 2</i>	<i>Diesel fuel (as total hydrocarbons)(fuel oil #2)</i>	<i>II</i>	<i>704</i>	<i>335</i>	<i>5.5</i>	<i>2022</i>
<i>68476 – 31 – 3</i>	<i>Diesel fuel (as total hydrocarbons)(fuel oil #4)</i>	<i>III</i>	<i>4167</i>	<i>992</i>	<i>33</i>	<i>11961</i>
<i>68476 – 34 – 6</i>	<i>Diesel fuel (as total hydrocarbons) (diesel #2)</i>	<i>III</i>	<i>4167</i>	<i>992</i>	<i>33</i>	<i>11961</i>
<i>77650 – 28 – 3</i>	<i>Diesel fuel (as total hydrocarbons) (diesel #4, marine diesel)</i>	<i>III</i>	<i>4167</i>	<i>992</i>	<i>33</i>	<i>11961</i>

^A Toxicity Classification as classified in Env-A 1407, in general:

Toxicity Class I: Classification established pursuant to Env-A 1407.02.

Toxicity Class II: Classification established pursuant to Env-A 1407.03.

Toxicity Class III: Classification established pursuant to Env-A 1407.04.

^B De minimis values were ~~calculated~~ **calculated** using non-rounded ambient air limits (AALs). The AALs and de minimis values represented in this table are rounded to whole numbers or 2 significant figures if less than 10.

* Denotes regulated toxic air pollutants which have data limitations preventing derivation of AALs in accordance with Env-A 1411

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Adopted Rule 1-24-05

CAS Number	Description	Toxicity Class	24-Hr AAL (µg/m ³)	Annual AAL (µg/m ³)	24-Hr De Minimis (lbs/day)	Annual De Minimis (lbs/yr)
<i>0 – 00 – 0</i>	<i>Aliphatic hydrocarbon gases: Alkane C1 - C4 (measured as butane)*</i>	<i>III</i>	<i>35374</i>	<i>23582</i>	<i>278</i>	<i>101,545</i>
<i>74 – 84 – 0</i>	<i>Ethane (see Aliphatic hydrocarbon gases)</i>					
<i>74 – 98 – 6</i>	<i>Propane (see Aliphatic hydrocarbon gases)</i>					
<i>75 – 18 – 3</i>	<i>Dimethyl sulfide</i>	<i>III</i>	<i>529</i>	<i>252</i>	<i>4.2</i>	<i>1,519</i>
<i>75 – 28 – 5</i>	<i>Isobutane (see Aliphatic hydrocarbon gases)</i>					
78 – 93 – 3	Methyl ethyl ketone (MEK)		15000	15000	7.9 39	2871 14353
<i>85 - 42 - 7</i>	<i>Hexahydrophthalic anhydride</i>	<i>II</i>	<i>0.0025</i>	<i>0.0017</i>	<i>0.000020</i>	<i>0.0072</i>
106 – 97 – 8	Butane (<i>see Aliphatic hydrocarbon gases</i>)	III	28274	18849	222	81164
108 – 98 – 5	Phenyl mercaptan	I	8.2 1.6	5.5 1.1	0.065 0.013	24 4.6
110 – 82 – 7	Cyclohexane	II	1731 6000	1154 6000	14 47	4970 17224
110 – 86 – 1	Pyridine	II	80 16	54 11	0.63 0.13	231 47
<i>112 – 55 – 0</i>	<i>Dodecyl mercaptan</i>	<i>I</i>	<i>3.0</i>	<i>2.0</i>	<i>0.023</i>	<i>8.5</i>
2179 – 59 – 1	Allyl propyl disulfide	III II	500 45	119 30	3.9 0.35	1435 129
7664 – 93 – 9	Sulfuric Acid	I	3.6 0.71	2.4 0.48	0.028 0.0056	10 2.0
7783 – 06 – 4	Hydrogen sulfide	III II	70 50	1.0 2.0	0.55 0.39	16 33
<i>8006 -14 – 2</i>	<i>Natural gas (see Aliphatic hydrocarbon gases)</i>					
<i>9006 – 04 – 6</i>	<i>Natural rubber latex, as total proteins</i>	<i>II</i>	<i>0.0050</i>	<i>0.0034</i>	<i>0.000040</i>	<i>0.014</i>
10035 – 10 – 6	Hydrogen bromide	II	56 37	33 22	0.44 0.29	160 107
<i>13149 – 00 – 3</i>	<i>Hexahydrophthalic anhydride, cis-isomer</i>	<i>II</i>	<i>0.0025</i>	<i>0.0017</i>	<i>0.000020</i>	<i>0.0072</i>
<i>14166 – 21 – 3</i>	<i>Hexahydrophthalic anhydride, trans-isomer</i>	<i>II</i>	<i>0.0025</i>	<i>0.0017</i>	<i>0.000020</i>	<i>0.0072</i>

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Adopted Rule 1-24-05

CAS Number	Description	Toxicity Class	24-Hr AAL ($\mu\text{g}/\text{m}^3$)	Annual AAL ($\mu\text{g}/\text{m}^3$)	24-Hr De Minimis (lbs/day)	Annual De Minimis (lbs/yr)
<i>19430 – 93 – 4</i>	<i>Perfluorobutyl ethylene</i>	<i>III</i>	<i>41,939</i>	<i>9,986</i>	<i>330</i>	<i>120,391</i>
68476 – 85 – 7	Liquified petroleum gas (LPG) (<i>see Aliphatic hydrocarbon gases</i>)	III	37500	17857	295	107648

* The compounds comprising “Aliphatic hydrocarbon gases: Alkane C1-C4 (measured as butane)” are: CAS Number 8006-14-2, Natural gas; CAS Number 74-98-6, Propane; CAS Number 75-28-5, Isobutane; CAS Number 106-97-8, Butane; CAS Number 74-84-0, Ethane; and CAS Number 68476-85-7, Liquid petroleum gas. The AALs for “Aliphatic hydrocarbon gases: Alkane C1-C4 (measured as butane)” are for emissions of any individual compound if only one compound is emitted, or for any mixture of compounds if more than one is present.

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Adopted Rule 5-26-06

Amend Env-A 1450.01(a), table 1450-1, effective 2-4-05 (Document #8278), by inserting “glycol ethers not otherwise regulated,” “1-bromopropane,” “dichloroacetic acid,” “tetrakis (hydroxymethyl) phosphonium chloride,” “tetrakis (hydroxymethyl) phosphonium sulfate,” “gallium arsenide,” “borate compounds (sodium tetraborate),” “borate compounds (borax),” “borate compounds (boric acid),” and “borate compounds (sodium borate pentahydrate)” and amending other regulated toxic air pollutants, so that the following regulated toxic air pollutants and footnotes in table 1450-1 read as follows:

CAS Number	Description	Toxicity Class ^A	24-Hr AAL ($\mu\text{g}/\text{m}^3$)	Annual AAL ^B ($\mu\text{g}/\text{m}^3$)	24-Hr De Minimis ^C (lbs/day)	Annual De Minimis (lbs/yr)
<i>0 – 00 – 0</i>	<i>Glycol ethers not otherwise regulated</i> ^G					^E
0 – 00 – 0	Wood Dust (Hard Woods <i>western red cedar</i>) (See Env-A 1450.01(b))	I	3.6 <i>2.5</i>	2.4 <i>1.7</i>	0.028 <i>0.02</i>	40 <i>7</i>
0 – 00 – 0	Wood Dust (Soft Woods <i>oak and beech</i>) (See Env-A 1450.01(b))	I	18 <i>3.6</i>	12 <i>2.4</i>	0.14 <i>0.03</i>	54 <i>10</i>
<i>0 – 00 – 0</i>	<i>Wood Dust (birch, mahogany, teak, and walnut)</i> (See Env-A 1450.01(b))	<i>I</i>	<i>3.6</i>	<i>2.4</i>	<i>0.03</i>	<i>10</i>
<i>0 – 00 – 0</i>	<i>Wood Dust (all other species)</i> (See Env-A 1450.01(b))	<i>III</i>	<i>15</i>	<i>9.9</i>	<i>0.1</i>	<i>43</i>
<i>106 – 94 – 5</i>	<i>1-Bromopropane</i>	<i>III</i>	<i>2096</i>	<i>499</i>	<i>0.1</i>	<i>6017</i>
109 – 99 – 9	Tetrahydrofuran	II	2968 <i>742</i>	1979 <i>494</i>	23 <i>5.8</i>	8519 <i>2130</i>
115 – 90 – 2	Fensulfothion	I	0.36 <i>0.04</i>	0.24 <i>0.02</i>	0.0028 <i>0.0003</i>	1.0 <i>0.1</i>
<i>124 – 64 – 1</i>	<i>Tetrakis (hydroxymethyl) phosphonium chloride</i>	<i>II</i>	<i>10</i>	<i>6.7</i>	<i>0.08</i>	<i>29</i>
<i>1303 – 00 – 0</i>	<i>Gallium arsenide</i>	<i>I</i>	<i>0.001</i>	<i>0.001</i>	<i>0.00001</i>	<i>0.003</i>
1303 – 96 – 4	Borate <i>compounds, (Borax)</i> tetra, sodium salts, Anhydrous <i>inhalable fraction</i>	I	3.6 <i>7.1</i>	2.4 <i>4.8</i>	0.028 <i>0.06</i>	40 <i>21</i>
1303 – 96 – 4	Borates, tetra, sodium salts, Decahydrate	II	25	17	0.20	72
1303 – 96 – 4	Borates, tetra, sodium salts, Pentahydrate	I	3.6	2.4	0.028	40
<i>1330 – 43 – 4</i>	<i>Borate compounds (sodium tetraborate) inhalable fraction</i>	<i>I</i>	<i>7.1</i>	<i>4.8</i>	<i>0.06</i>	<i>20</i>
2426 – 08 – 6	n-Butyl glycidyl ether (<i>BGE</i>)	I	475 <i>57</i>	317 <i>38</i>	3.7 <i>0.4</i>	1364 <i>164</i>

Added language in *bold/italics*

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Adopted Rule 5-26-06

CAS Number	Description	Toxicity Class ^A	24-Hr AAL ($\mu\text{g}/\text{m}^3$)	Annual AAL ^B ($\mu\text{g}/\text{m}^3$)	24-Hr De Minimis ^C (lbs/day)	Annual De Minimis (lbs/yr)
3383 – 96 – 8	Temephos	II	50 5.0	34 3.4	0.40 0.04	144 14
3689 – 24 – 5	Sulfotep (<i>TEDP</i>)	I	0.71 0.4	0.48 0.2	0.0056 0.003	2.1 1.02
7664 – 39 – 3	Hydrogen fluoride, <i>as F</i>	I	8.2 1.5	5.5 1.0	0.065 0.01	24 4.2
10043 – 35 – 3	<i>Borate compounds (boric acid) inhalable fraction</i>	I	7.1	4.8	0.06	21
12179 – 04 – 3	<i>Borate compounds (sodium borate pentahydrate) inhalable fraction</i>	III	83	20	0.7	238
55566 – 30 – 8	<i>Tetrakis (hydroxymethyl) phosphonium sulfate</i>	I	7.1	4.8	0.06	21

Footnote:

^A Toxicity Classification as classified in Env-A 1406, in general:

Toxicity Class I: Classification established pursuant to Env-A 1406.02.

Toxicity Class II: Classification established pursuant to Env-A 1406.03.

Toxicity Class III: Classification established pursuant to Env-A 1406.04.

^B Ambient air limit.

^C *De minimis* values were calculated using non-rounded AALs. The AALs and *de minimis* values represented in this table are rounded to whole numbers or 2 significant figures if less than 10.

^D The compounds comprising “Aliphatic hydrocarbon gases: Alkane C1-C4 (measured as butane)” are: CAS Number 8006-14-2, Natural gas; CAS Number 74-98-6, Propane; CAS Number 75-28-5, Isobutane; CAS Number 106-97-8, Butane; CAS Number 74-84-0, Ethane; and CAS Number 68476-85-7, Liquid petroleum gas. The AALs for “Aliphatic hydrocarbon gases: Alkane C1-C4 (measured as butane)” are for emissions of any individual compound if only one compound is emitted, or for any mixture of compounds if more than one is present.

^E Denotes regulated toxic air pollutants which have data limitations preventing derivation of AALs in accordance with Env-A 1411.

^F The isomers comprising “pentyl acetate” are: CAS Number 123-92-2, Isoamyl acetate; CAS Number 620-11-1, 3-Amyl acetate; CAS Number 624-41-9, 1-Butanol, 2-methyl-, acetate; CAS Number 625-16-1, Tert-Amyl acetate; CAS Number 626-38-0, Sec-Amyl acetate; and CAS Number 628-63-7, n-Amyl acetate. The AALs for pentyl acetate are for emissions of any individual isomer if only one isomer is emitted, or for any mixture of isomers if more than one is present.

^G *Glycol ether compounds, as defined in section 112(b) of the 1990 Clean Air Act Amendments and not otherwise regulated as regulated toxic air pollutants.*

Added language in *bold/italics*

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Amend Env-A 1450.01(b), effective 2-4-05 (Document #8278), cited and to read as follows:

(b) AALs and de minimis values for “wood dust (western red cedar soft wood),” “wood dust (oak & beech),” “wood dust (birch, mahogany, teak, walnut)” and “wood dust (all other species hardwood)” in table 1450-1 shall apply only to emissions from sanding operations at sources belonging to Major Group 24 or 25 as described in the Standard Industrial Classification Manual, 1987, and assigned by EPA the following Source Classification Code (SCC) numbers: 30700702, 30700806, 30700807, 30702003, 30703096, 30703097, 30703098, and 30703099.

Amend Env-A 1450.01(a), table 1450-1, effective 5-26-06 (Document #8632), by:

(1) adding “Hexane, isomers other than n-Hexane,” “Coumaphos,” “Propylene,” “Calcium sulfate, the hemihydrate,” “Calcium sulfate, the dihydrate,” deleting “Rouge,” “Vegetable Oil Mists,” “Hexane, other isomers,” “Magnesite,” “Iron Oxide dust & fume,” “Silicon,” “Tetrasodium pyrophosphate,” “Tridymite,” “Silica, fused,” “Diatomaceous earth, inhalable particulate,” “Diatomaceous earth, respirable particulate,” “Silica, fume,” “Perlite,” and “Precipitated silica”; and

(2) amending existing regulated toxic air pollutants as follows: “Fenthion,” adding “inhalable fraction and vapor” to the description and lowering the 24-hr and annual AALs and the 24-hr and annual *de minimis* values; “Phosgene,” lowering the annual AAL; “Propylene dichloride,” adding “(1,2 dichloropropane)” to the description and lowering the 24-hr and annual AALs and the 24-hr *de minimis* values; “Chloroacetic acid,” adding “Monochloroacetic acid” and “inhalable fraction and vapor” to the description and adding values for toxicity class, 24-hr and annual AALs, and 24-hr and annual *de minimis* values; “Acetylene tetrabromide,” adding “1,1,2,2-Tetrabromoethane” and “inhalable fraction and vapor” to the description, increasing the toxicity class, and lowering the 24-hr and annual AALs and the 24-hr and annual *de minimis* values; “1-Bromopropane,” correcting a typographical error in the 24-hr *de minimis* value; “Toluene,” increasing the 24-hr and annual AALs and the 24-hr and annual *de minimis* values; “2-Methoxyethyl acetate,” adding “(EGMEA)” to the description, increasing the toxicity class, and lowering the 24-hr and annual AALs and 24-hr and annual *de minimis* values; “Hexane (n-Hexane)” deleting “Hexane” and the parentheses following it and raising the annual AAL and lowering the 24-hr *de minimis* values; “Ronnel,” adding “inhalable fraction and vapor” to the description and lowering the 24-hr and annual AALs and the 24-hr and annual *de minimis* values; “Fonofos,” adding “inhalable fraction and vapor” to the description and lowering the 24-hr and annual AALs and 24-hr and annual *de minimis* values; “Iron Oxide,” adding “(Fe₂O₃) – respirable fraction” to the description; “Tripoli,” adding “Crystalline- α -quartz” and “respirable fraction” to the description, increasing the toxicity class, and lowering the 24-hr and annual AALs and the 24-hr and annual *de minimis* values; “Dioxin,” ~~[deleting]~~ adding back in “2, 3, 7, 8 – Tetrachlorodibenzeno p-” from the description, deleting the toxicity class and adding 24-hr and annual AALs and 24-hr and annual *de minimis* values; “Hydrogen fluoride, as F,” correcting a rounding error in the annual AAL; “Calcium sulfate,” adding “the anhydrite - inhalable fraction” to the description and correcting a rounding error in the annual *de minimis* value; “Gypsum,” adding “Calcium sulfate” to the description and correcting a rounding error in the annual *de minimis* value; “Cristobalite,” adding “Silica, Crystalline” and “respirable fraction” to the description, raising the toxicity class, and lowering the 24-hr and annual AALs and the 24-hr and annual *de minimis* values; “Quartz,” adding “Silica, Crystalline- α ” and “respirable fraction” to the description, raising the toxicity class, and lowering the 24-hr and annual AALs and the 24-hr and annual *de minimis* values; and “Fenamiphos,” adding “inhalable fraction and vapor” to the description and lowering the 24-hr and annual AALs and the 24-hr and annual *de minimis* values so that the following regulated toxic air pollutants and footnotes in table 1450-1 are cited and read as follows:

CAS Number	Description	Toxicity Class ^A	24-Hr AAL ($\mu\text{g}/\text{m}^3$)	Annual AAL ($\mu\text{g}/\text{m}^3$)	24-Hr De Minimis ^B (lbs/day)	Annual De Minimis (lbs/yr)
0 – 00 – 0	<i>Hexane, isomers other than n-Hexane (CAS Number 110–5–3)</i>	II	885	700	7.0	2541
0 – 00 – 0	Rouge	II	50	34	0.40	144
0 – 00 – 0	Vegetable Oil Mists	III	417	99	3.3	1196
55 – 38 – 9	Fenthion – <i>inhalable fraction and vapor</i>	I	0.71 <i>0.18</i>	0.48 <i>0.12</i>	0.0056 <i>0.0014</i>	2.1 <i>0.51</i>

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Adopted Rule 11-09-07

CAS Number	Description	Toxicity Class ^A	24-Hr AAL (µg/m ³)	Annual AAL (µg/m ³)	24-Hr De Minimis ^B (lbs/day)	Annual De Minimis (lbs/yr)
56 – 72 – 4	<i>Coumaphos – inhalable fraction and vapor</i>	<i>I</i>	<i>0.18</i>	<i>0.12</i>	<i>0.0014</i>	<i>0.51</i>
75 – 44 – 5	Phosgene	I	1.4	0.95 0.30	0.011	4.1
78 – 87 – 5	Propylene dichloride (<i>1,2-dichloropropane</i>)	II	1745 232	4.0	14 1.8	66
79 – 11 – 8	<i>Monochloroacetic acid</i> (Chloroacetic acid) – <i>inhalable fraction and vapor</i>	<i>III</i>	29	19	0.23	83 E
79 – 27 – 6	<i>1,1,2,2-Tetrabromoethane</i> (Acetylene tetrabromide) – <i>inhalable fraction and vapor</i>	II I	70 5.0	47 3.4	0.55 0.040	201 14
106-94-5	<i>1-Bromopropane</i>	III	2096	499	0.1 16	6017
108 – 88 – 3	Toluene	I	671 5000	400 5000	5.3 39	1927 14353
110 – 49 – 6	2-Methoxyethyl acetate (<i>EGMEA</i>)	II I	121 1.7	80 1.2	0.95 0.014	347 5.0
110 – 54 – 3	Hexane (n-Hexane)	II	885	200 700	70 7.0	2541
110 – 54 – 3	Hexane (Other isomers)	II	8853	200	70	3281
<i>115 – 07 – 1</i>	<i>Propylene</i>	<i>III</i>	<i>35833</i>	<i>8532</i>	<i>282</i>	<i>102863</i>
299 – 84 – 3	Ronnel – <i>inhalable fraction and vapor</i>	I	36 18	24 12	0.28 0.14	103 52
546 – 93 – 0	Magnesite	III	149	99	1.2	427
944 – 22 – 9	Fonofos – <i>inhalable fraction and vapor</i>	I	0.36 0.036	0.24 0.024	0.0028 0.00028	1.0 0.10
1309 – 37 – 1	Iron Oxide (<i>Fe2O3</i>) – <i>respirable fraction</i>	II	25	17	0.20	72
1309 – 37 – 1	Iron Oxide dust & fume	II	25	17	0.20	72
1317 – 95 – 9	<i>Silica, Crystalline-α-quartz</i> (Tripoli) – <i>respirable fraction</i>	II I	0.50 0.089	0.34 0.060	0.0040 0.00070	1.4 0.26
1746 – 01 – 6	2,3,7,8-Tetrachlorodibenzeno-p-Dioxin	I	0.0010 2.37E-07	0.0010 2.37E-07	E 1.81E-09	E 6.60E-07

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Adopted Rule 11-09-07

CAS Number	Description	Toxicity Class ^A	24-Hr AAL (µg/m ³)	Annual AAL (µg/m ³)	24-Hr De Minimis ^B (lbs/day)	Annual De Minimis (lbs/yr)
7440-21-3	Silicon	III	149	99	1.2	427
7664-39-3	Hydrogen fluoride, as F	I	1.5	1.0 0.98	0.01	4.2
7722-88-5	Tetrasodium pyrophosphate	III	104	50	0.82	299
7778-18-9	Calcium sulfate, <i>the anhydrite – inhalable fraction</i>	III	149	99	1.2	427 428
10034-76-1	Calcium sulfate, the hemihydrate – inhalable fraction	III	149	99	1.2	428
10101-41-4	Calcium sulfate, the dihydrate – inhalable fraction	III	149	99	1.2	428
13397-24-5	Calcium sulfate, Gypsum	III	149	99	1.2	427 428
14464-46-1	<i>Silica, Crystalline-Cristobalite – respirable fraction</i>	H I	0.25 0.089	0.17 0.060	0.0020 0.00070	0.72 0.26
14808-60-7	<i>Silica, Crystalline-α-Quartz – respirable fraction</i>	H I	0.36 0.089	0.24 0.060	0.0028 0.00070	1.0 0.26
15468-32-3	Tridymite	H	0.25	0.17	0.0020	0.72
22224-92-6	Fenamiphos – <i>inhalable fraction and vapor</i>	I	0.36 0.18	0.24 0.12	0.0028 0.0014	1.0 0.51
60676-86-0	Silica, fused	H	0.50	0.34	0.0040	1.4
61790-53-2	Diatomaceous earth, inhalable particulate	H	50	34	0.40	144
61790-53-2	Diatomaceous earth, respirable particulate	H	15	10	0.12	43
69012-64-2	Silica, fume	H	10	6.7	0.079	29
93763-70-3	Perlite	III	149	99	1.2	427
112926-00-8	Precipitated silica	H	50	34	0.40	144

Amend Env-A 1450.01(a), table 1450-1, effective 11-25-09 (Document #9601), by:

(1) adding “1-Methyl naphthalene,” “2-Methyl naphthalene,” “5-Nitro-o-toluidine,” “Hexafluoropropylene,” “Dimethyl disulfide,” “Alachlor, inhalable fraction and vapor,” “Isobutene,” “Polyvinyl chloride (PVC),”

(2) deleting “Aliphatic hydrocarbon gases C1–C4 (measured as butane),” “Cotton,” “Flour Dust,” “Polytetrafluoroethylene, decomposition products,” “Welding Fumes (not otherwise classified),” “Sucrose,” Ethane (see Aliphatic hydrocarbon gases),” “Propane (see Aliphatic hydrocarbon gases),” “Isobutane (see Aliphatic hydrocarbon gases),” “Butane (see Aliphatic hydrocarbon gases),” “Triphenyl amine,” “Emery,” “Calcium carbonate,” “Silica, crystalline Tripoli,” “Carbon black,” “Aluminum oxide,” “Alkyls, as Al,” “Pyro powders as Al,” “Soluble salts, as Al,” “Welding fumes, as Al,” “Natural gas (see Aliphatic hydrocarbon gases),” “Cellulose,” “Starch,” “Portland Cement,” “Diesel fuel (as total hydrocarbons)(diesel oil),” “Diesel fuel (as total hydrocarbons)(fuel oil #2),” “Diesel fuel (as total hydrocarbons)(fuel oil #4),” “Diesel fuel (as total hydrocarbons)(diesel #2),” “Liquefied propane gas (LPG)(as Aliphatic hydrocarbon gases),” “Diesel fuel (as total hydrocarbons)(diesel #4, marine diesel);” and

(3) amending existing regulated toxic air pollutants as follows: “Carbaryl”, adding “inhalable fraction and vapor”, lowering the 24-hr and annual AALs and the 24-hr and annual de minimis values; “n-Propyl alcohol,” lowering the 24-hr and annual AALs and the 24-hr and annual de minimis values; “Methyl chloroform,” elevating the 24-hr and annual de minimis value and the annual AAL; “1,1,1,2-Tetrachloro-2,2-difluoroethane”, elevating the toxicity class to III, lowering the 24-hr and annual AALs and the 24-hr and annual de minimis values; “1,1,1,2-Tetrachloro-1,2-difluoroethane”, elevating the toxicity class to III, lowering the 24-hr and annual AALs and the 24-hr and annual de minimis values; “Trichloroethylene,” lowering the 24-hr and annual AALs and the 24-hr and annual de minimis values; “Dimethyl carbamoyl chloride”, establishing 24-hr and annual AALs and 24-hr and annual de minimis values; “Indene,” Lower the 24-hr and annual AALs and the 24-hr and annual de minimis values; “Nitrobenzene,” lowering the annual AAL and increasing the 24-hr and annual de minimis values; “TEPP,” change description to “Tetraethyl pyrophosphate (TEPP),” adding “inhalable fraction and vapor,” and lowering the 24-hr and annual AALs and the 24-hr and annual de minimis values; “Methyl propyl ketone”, lowering the 24-hr and annual AALs and the 24-hr and annual de minimis values; “Butyl mercaptan,” changing description to “n-Butyl mercaptan,” correcting a rounding error to the annual AAL, and increasing the 24-hr and annual de minimis values; “Hydroquinone”, lowering the toxicity class to I and lowering the 24-hr and annual AALs and the 24-hr and annual de minimis values; “Propionaldehyde”, lowering the annual AAL and the annual de minimis value and increasing the 24-hr de minimis value; “Thiram”, adding “inhalable fraction and vapor” to the description and lowering the 24-hr and annual AALs and the 24-hr and annual de minimis values; “Dinitolmide,” change the description to “3,5-Dinitro-o-toluamide,” and lowering the 24-hr and annual AALs and the 24-hr and annual de minimis values; “Aldrin,” adding “inhalable fraction and vapor” to the description and lowering the 24-hr and annual AALs and the 24-hr and annual de minimis values; “Ethyl amyl ketone,” lowering the 24-hr and annual AALs and the 24-hr and annual de minimis values; “Trimellitic anhydride”, lowering the 24-hr and annual AALs and the 24-hr and annual de minimis values; “Diglycidyl ether (DGE),” lowering the 24-hr and annual AALs and the 24-hr and annual de minimis values; “Aluminum (dust)”, change the description to “Aluminum metal and insoluble compounds - respirable fraction”, and lowering the 24-hr and annual AALs and the 24-hr and annual de minimis values; “Lead, elemental & organic compounds,” change the description to “Lead, and organic compounds as Pb” lowering the 24-hr AAL and increasing the 24-hr and annual de minimis values; “Phosphorous (yellow),” changing the CAS number to “12185-10-3” and lowering the 24-hr and annual de minimis values; “Arsine,” lowering the 24-hr AAL and the 24-hr and annual de minimis values; “Gasoline,” change the CAS number to “86290-81-5” and elevating the 24-hr and annual de minimis values; “Methyl demeton,” adding “inhalable fraction and vapor” to the description, and lowering the 24-hr and annual AALs and the 24-hr and annual de minimis values; “Natural rubber latex”, change “as total proteins” to “as inhalable allergenic proteins” and lowering the 24-hr and annual AALs and the 24-hr and annual de minimis values; “Benomyl”, add “inhalable fraction” to the description and lowering the 24-hr and annual AALs and the 24-hr and annual de minimis values;

“Chlorinated diphenyl oxide” change the description to “o-Chlorinated diphenyl oxide”, change the CAS number to “31242-93-0”; “Jet Fuels,” change description to “Kerosene”, change CAS number to “64742-81-0,” and elevating the 24-hr and annual de minimis values; appending the description “inhalable fraction and vapor” and increasing the 24-Hr and annual de minimis values for the following: “Parathion”, “Dichlorvos (DDVP)”, “Dioxathion”, “Acrylamide”, “Azinophos-methyl”, Caprolactum”, “Glyoxal”, “Fensulfothion”, “Malithion”, “ Butylated hydroxytoluene”, “Dicrotophos”, “ 2-Ethylhexanoic acid”, “ Phorate”, “ Disulfoton”, “ Naled”, “Diazinon”, “Ethion”, “ Demeton-S-methyl”, “ Xylidine”, “Carbofuran”, “Chlorpyrifos”, “Temephos”, “Sulfotep (TEDP)”, “Monocrotophos”, Mevinphos”, “ Demeton”, “Terbufos”; so that the following regulated toxic air pollutants and footnotes in table 1450-1 are cited and read as follows:

CAS Number	Description	Toxicity Class ^A	24-Hr AAL (µg/m ³)	Annual AAL (µg/m ³)	24-Hr De Minimis ^B (lbs/day)	Annual De Minimis (lbs/yr)
0-00-0	Aliphatic hydrocarbon gases C1-C4 (measured as butane)	III	35374	23582	278	101545
0-00-0	Cotton	III	3.0	2.0	0.023	8.5
0-00-0	Flour dust	III	21	5.0	0.17	60
00-00-0	Polytetrafluoroethylene, decomposition products	II				
00-00-0	Welding Fumes (not otherwise classified)	II	25	17	0.20	72
56-38-2	Parathion, <i>inhalable fraction and vapor</i>	I	0.18	0.12	0.0014 0.0021	0.51 0.78
57-50-1	Sucrose	II	50	34	0.40	144
62-73-7	Dichlorvos (DDVP), <i>inhalable fraction and vapor</i>	I	0.50	0.50	0.0039 0.0059	1.4 2.2
63-25-2	Carbaryl, <i>inhalable fraction and vapor</i>	I	18 1.8	12 1.2	0.14 0.021	51 7.7
71-23-8	n-Propyl alcohol	II	3465 1731	1650 824	27 21	9946 7506
71-55-6	Methyl chloroform	I	6821	4548 5000	54 81	19582 29579
74-84-0	Ethane (see Aliphatic hydrocarbon gases)					
74-98-6	Propane (see Aliphatic hydrocarbon gases)					
75-28-5	Isobutane (see Aliphatic hydrocarbon gases)					
76-11-9	1,1,1,2-Tetrachloro-2,2-difluoroethane	II III	20976 12406	13984 8270	165 147	60214 53798
76-12-0	1,1,1,2-Tetrachloro-1,2-difluoroethane	II III	20976 6203	13984 4135	165 74	60214 26899
78-34-2	Dioxathion, <i>inhalable fraction and vapor</i>	I	0.36	0.24	0.0028 0.0043	1.0 1.6

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79-01-6	Trichloroethylene	I	961 <i>192</i>	640 <i>128</i>	7.6 <i>2.3</i>	2759 <i>833</i>
79-06-1	Acrylamide, <i>inhalable fraction and vapor</i>	I	0.11	0.071	0.00084 <i>0.0013</i>	0.31 <i>0.48</i>
79-44-7	Dimethyl carbamoyl chloride	I	<i>0.075</i>	<i>0.050</i>	<i>0.00089</i>	<i>0.33</i>
86-50-0	Azinphos-methyl, <i>inhalable fraction and vapor</i>	I	0.71	0.48	0.0056 <i>0.0084</i>	2.1 <i>3.1</i>
<i>90-12-0</i>	<i>1-Methyl naphthalene</i>	<i>II</i>	<i>15</i>	<i>9.7</i>	<i>0.18</i>	<i>65</i>
<i>91-57-6</i>	<i>2-Methyl naphthalene</i>	<i>II</i>	<i>15</i>	<i>9.7</i>	<i>0.18</i>	<i>65</i>
95-13-6	Indene	III	714 <i>353</i>	476 <i>236</i>	5.6 <i>4.2</i>	2050 <i>1531</i>
98-95-3	Nitrobenzene	I	18	12 <i>9.0</i>	0.14 <i>0.21</i>	51 <i>78</i>
<i>99-55-8</i>	<i>5-Nitro-o-toluidine</i>	<i>II</i>	<i>5.0</i>	<i>3.4</i>	<i>0.060</i>	<i>22</i>
105-60-2	Caprolactum, <i>inhalable fraction and vapor</i>	I	18	12	0.14 <i>0.21</i>	51 <i>78</i>
106-97-8	Butane (see Aliphatic hydrocarbon gases)					
107-22-2	Glyoxal, <i>inhalable fraction and vapor</i>	II	0.70	0.34	0.0055 <i>0.0083</i>	2.0 <i>3.0</i>
107-49-3	<i>Tetraethyl pyrophosphate (TEPP) - inhalable fraction and vapor</i>	I	0.17 <i>0.036</i>	0.11 <i>0.024</i>	0.0013 <i>0.00043</i>	0.48 <i>0.16</i>
107-87-9	Methyl propyl ketone	III	14688 <i>11014</i>	6994 <i>5244</i>	116 <i>87</i>	42162 <i>31617</i>
109-79-5	Butyl mercaptan n-Butyl mercaptan	I	9.0	4.286 <i>4.3</i>	0.071 <i>0.11</i>	26 <i>40</i>
<i>115-11-7</i>	<i>Isobutene</i>	<i>II</i>	<i>2886</i>	<i>1924</i>	<i>34</i>	<i>12515</i>
115-90-2	Fensulfothion, <i>inhalable fraction and vapor</i>	I	0.036	0.024	0.00028 <i>0.00043</i>	0.10 <i>0.16</i>
<i>116-15-4</i>	<i>Hexafluoropropylene</i>	<i>II</i>	<i>4.3</i>	<i>2.1</i>	<i>0.051</i>	<i>19</i>
121-75-5	Malithion, <i>inhalable fraction and vapor</i>	I	3.6	2.4	0.028 <i>0.043</i>	10 <i>16</i>
123-31-9	Hydroquinone	II <i>II</i>	10 <i>3.6</i>	6.7 <i>2.4</i>	0.079 <i>0.042</i>	29 <i>15</i>
123-38-6	Propionaldehyde	II	239	159	1.9	686

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				8.0	2.8	130
128-73-0	Butylated hydroxytoluene, <i>inhalable fraction and vapor</i>	II	10	6.7	0.79 0.12	29 43
137-26-8	Thiram <i>inhalable fraction and vapor</i>	I	3.6 0.18	2.4 0.12	0.028 0.0021	40 0.78
141-66-2	Dicrotophos, <i>inhalable fraction and vapor</i>	I	0.18	0.12	0.0014 0.0021	0.51 0.78
148-01-6	Dinitolmide — <i>3,5-Dinitro-o-tolumide</i>	II	35 7.0	17 3.4	0.28 0.084	100 31
149-57-5	2-Ethylhexanoic acid, <i>inhalable fraction and vapor</i>	I	18	12	0.14 0.21	51 78
298-02-2	Phorate, <i>inhalable fraction and vapor</i>	I	0.18	0.12	0.0014 0.0021	0.51 0.78
298-04-4	Disulfoton, <i>inhalable fraction and vapor</i>	I	0.18	0.12	0.0014 0.0021	0.51 0.78
300-76-5	Naled, <i>inhalable fraction and vapor</i>	II	0.50	0.34	0.0040 0.0059	1.4 2.2
309-00-2	Aldrin, <i>inhalable fraction and vapor</i>	I	0.89 0.18	0.60 0.12	0.0070 0.0021	2.6 0.78
333-41-5	Diazinon, <i>inhalable fraction and vapor</i>	I	0.036	0.024	0.00028 0.00043	0.10 0.16
541-85-5	Ethyl amyl ketone	III	2729 1092	1300 520	21 13	7834 4735
552-30-7	Trimellitic anhydride	II	0.20 0.0030	0.13 0.0020	0.0016 0.000036	0.58 0.013
563-12-2	Ethion, <i>inhalable fraction and vapor</i>	I	0.18	0.12	0.0014 0.0021	0.51 0.78
603-34-9	Triphenyl amine	III	404	50	0.82	299
919-86-8	Demeton-S-methyl, <i>inhalable fraction and vapor</i>	I	0.18	0.12	0.0014 0.0021	0.51 0.78
624-92-0	<i>Dimethyl sulfide</i>	II	9.7	6.5	0.12	42
1300-73-8	Xylidine (mixed isomers), <i>inhalable fraction and vapor</i>	II	13	8.4	0.10 0.15	36 56

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1302-74-5	Emery	III	149	99	1.2	427
1317-65-3	Calcium carbonate	III	149	99	1.2	427
1317-95-9	Silica, crystalline—Tripoli	I	0.089	0.060	0.00070	0.26
1333-86-4	Carbon black	III	52	35	0.41	150
1344-28-1	Aluminum oxide	III	149	99	1.2	428
1563-66-2	Carbofuran, <i>inhalable fraction and vapor</i>	I	0.36	0.24	0.0028 0.0043	1.0 1.6
2238-07-5	Diglycidyl ether (DGE)	I	1.9 0.19	1.3 0.13	0.015 0.0022	5.4 0.82
2921-88-2	Chlorpyrifos, <i>inhalable fraction and vapor</i>	I	0.36	0.24	0.0028 0.0043	1.0 1.6
3383-96-8	Temephos, <i>inhalable fraction and vapor</i>	II	5.0	3.4	0.040 0.059	14 22
3689-24-5	Sulfotep (TEDP), <i>inhalable fraction and vapor</i>	I	0.4 0.36	0.2 0.24	0.003 0.0043	1.02 1.6
6923-22-4	Monocrotophos, <i>inhalable fraction and vapor</i>	I	0.18	0.12	0.0014 0.0021	0.51 0.78
7429-90-5	Alkyls, as Al	II	10	6.7	0.079	29
7429-90-5	Aluminum (dust) <i>metal and insoluble compounds - respirable fraction</i>	II	50 — 5.0	34 3.4	0.40 0.060	144 22
7429-90-5	Pyro Powders as Al	II	25	17	0.20	72
7429-90-5	Soluble Salts, as Al	II	10	6.7	0.079	29
7429-90-5	Welding Fumes, as Al	II	25	17	0.20	72
7439-92-1	Lead, elemental & organic compounds as Pb	I	0.18 0.15	0.12	0.0014 0.0018	0.51 0.66
7553-56-2	<i>Iodine and Iodides</i>	II	0.37	0.25	0.0044	1.6
7723-14-0 12185-10-3	Phosphorous (yellow)	I	0.36	0.24	0.0028 0.0043	1.0 1.6
7784-42-1	Arsine	I	0.57 0.057	0.050	0.0045 0.00068	0.82 0.25

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7786-34-7	Mevinphos, <i>inhalable fraction and vapor</i>	I	0.33	0.22	0.0026 0.0039	0.94 1.4
8006-14-2	Natural gas (see Aliphatic hydrocarbon gases)					
8006-61-9 86290-81-5	Gasoline	II	4477	2985	35 53	12851 19345
8022-00-2	Methyl demeton - <i>inhalable fraction and vapor</i>	I	1.8 0.18	1.2 0.12	0.014 0.0021	5.1 0.78
8065-48-3	Demeton, <i>inhalable fraction and vapor</i>	I	0.18	0.12	0.0014 0.0021	0.51 0.78
9002-86-2	<i>Polyvinyl choride (PVC) respirable fraction</i>	II	5.0	3.4	0.060	22
9004-34-6	Cellulose	III	149	99	1.2	427
9005-25-8	Starch	III	149	99	1.2	427
9006-04-6	Natural rubber latex, as total proteins <i>as inhalable allergenic proteins</i>	II	0.0050 0.0010	0.0034 0.0010	0.000040 0.000012	0.014 0.0043
12415-34-9	Emery	III	149	99	1.2	427
13071-79-9	Terbufos, <i>inhalable fraction and vapor</i>	I	0.036	0.024	0.00028 0.00043	0.10 0.16
15972-60-8	<i>Alachlor - inhalable fraction and vapor</i>	I	3.6	2.4	0.042	15
17804-35-2	Benomyl - <i>inhalable fraction</i>	I	36 3.6	24 2.4	0.28 0.042	103 15
55720-99-5 31242-93-0	<i>o</i> -Chlorinated diphenyl oxide	III	7.4	5.0	0.59	21
64742-47-8 64742-81-0	Jet fuels <i>Kerosene</i>	II	1006	671	7.9 12	2888 4380
65997-15-1	Portland Cement	III	417	99	3.3	1196
68334-30-5	Diesel fuel (as total hydrocarbons) (diesel oil)	III	2083	992	16	5980
68476-30-2	Diesel fuel (as total hydrocarbons) (fuel oil #2)	II	704	335	5.5	2022
68476-31-3	Diesel fuel (as total hydrocarbons) (fuel oil #4)	III	4167	992	33	11961

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68476-34-6	Diesel fuel (as total hydrocarbons) (diesel #2)	III	4167	992	33	11961
68476-85-7	Liquefied propane gas (LPG) (see Aliphatic hydrocarbon gases)					
77650-28-3	Diesel fuel (as total hydrocarbons) (diesel #4, marine diesel)	III	4167	992	33	11961

Amend Env-A 1450.01(b), table 1450-1, eff. 2-18-11, by:

(1) *adding the following:* Ethylamine; Dichloroacetic acid; Diquat dibromide, inhalable fraction; 2,4-Dimethylpentane; trans-1,2-Dichloroethene; 2,3-Dimethylpentane; 3-Methylhexane; 2,2-Dimethylpentane; 2-Methylhexane; Silica, Crystalline – Tripoli, respirable fraction; Diquat dibromide monohydrate, inhalable fraction; and Dinitrobenzene, mixed isomers;

(2) *deleting the following:* Mineral Wool Fibers; Cyanide; sec-Butyl acetate; tert-Butyl acetate; Nickel Sulfide Roasting (dust and fume); Zinc (as zinc oxide dust); Zinc (as zinc oxide fume); Silica, amorphous, fumed; Calcium sulfate, the anhydride inhalable fraction; Lead arsenate; VM&P naphtha; Rubber solvent (naphtha); Calcium sulfate, the hemihydrate, inhalable fraction; Calcium sulfate, the dihydrate, inhalable fraction; Silica gel; Calcium sulfate, gypsum;

(3) *amending existing regulated toxic air pollutants as follows:* Carbon tetrachloride – increasing the annual AAL; Methyl-n-butyl ketone – lowering the annual AAL; 1,2,3-Trichloropropane – lowering the annual AAL and lowering the annual *de minimis*; lowering the 24-hr and annual AALs and the 24-hr and annual *de minimis* values for the following: Ethanol; Propyleneimine; 2-Butoxyethanol; and Ethyleneimine; Acrylamide, inhalable fraction and vapor – elevating the 24-hr and annual AALs and the 24-hr and annual *de minimis* values; adding “inhalable fraction and vapor” and lowering the 24-hr and annual AALs and the 24-hr and annual *de minimis* values for the following: Dibutyl phosphate; Diethanolamine; and Methyl parathion; adding “inhalable fraction” and lowering the 24-hr and annual AALs and the 24-hr and annual *de minimis* values for the following: Beryllium and compounds, as Be; and Sulprofos; appending the description “respirable fraction” for the following: Coal Dust (anthracite); Coal Dust (bituminous); Gallium arsenide; Zinc oxide; Graphite (all forms except graphite fibers); Mica; Molybdate Orange (as molybdenum, soluble); and Talc containing no asbestos fibers; appending the description “inhalable fraction” for the following: Trichlorophon; 5-Nitro-o-toluidine; Captan; EPN; Diquat; and Ferbam; appending the description “containing no asbestos” for the following: Soapstone, inhalable dust; Soapstone, respirable dust; appending the description “inhalable fraction and vapor” for the following: Hexahydrophthalic anhydride; Endosulfan; Isobutyl nitrite; Trimetallic anhydride; m-Phthalodinitrile; and Hexahydrophthalic anhydride, all isomers; Ferbam – adding “inhalable fraction” and lowering the toxicity class to I and lowering the 24-hr and annual AALs and the 24-hr and annual *de minimis* values; Iron salts, soluble – adding “as Fe” to the description; Isopropanol – changing the description to “2-Propanol”; Methyl acetylene-propadiene mixture – changing the CAS number to “59355-75-8”; Acetone cyanohydrin – adding “as CN” to the description; Dinitrobenzene – adding “1,3-” to the description; Dinitrobenzene – adding “1,4-” to the description; Phenyl ether – adding “vapor” to the description; Dicyclopentadienyl ion – adding “as Fe” to the description; Ethylene glycol – adding “aerosol” to the description; Propylene glycol monomethyl ether – changing the description to “1-Methoxy-2-propanol”; Di sec octyl phthalate – changing the description to “Di(2-ethyl hexyl)phthalate”; Crotonaldehyde – changing the CAS number to 4170-30-3; Dioxane – adding “1-4-” to the description; Dichlorobenzene – adding “1,2-” to the description; Methylpyrrolidone – changing the description to “n-Methyl-2-pyrrolidone”; tert-Butyl chromate – adding “as CrO₃” to the description; Bismuth telluride Se-doped – changing the CAS number to “1304-82-1” and adding “as Bi₂Te₃” to the description; Magnesium oxide fume – deleting “fume” and adding “inhalable fraction” to the description; Tantalum oxide – adding “dust as Ta” to the description; Vanadium pentoxide – adding “as Va, inhalable fraction” to the description; Kaolin – adding “containing no asbestos, respirable fraction” to the description; Calcium silicate – adding “synthetic non-fibrous, containing no asbestos” to the description; Subtilisins (Proteolytic enzymes) – deleting “(Proteolytic enzymes)” and adding “as crystalline active enzyme” to the description; Manganese, elemental and inorganic compounds – adding “as Mn” to the description; Mercury, inorganic forms including metallic – deleting “inorganic forms including metallic” and adding “elemental and inorganic forms” to the description; Nickel, insoluble, compounds, as Ni – adding “inorganic” and “inhalable fraction” to the description; Nickel, metal – deleting “metal” and adding “elemental, as Ni, inhalable fraction” to the description; Nickel, soluble compounds, as Ni – adding “inorganic” and “inhalable fraction” to the

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description; Platinum, soluble salts – adding “as Pt” to the description; Rhodium metal – adding “and insoluble compounds” to the description; Rhodium, insoluble compounds – added to “Rhodium metal” description; Silver metal – adding “dust and fume” to the description; Tantalum – adding “metal and oxide” to the description; Thallium, elemental and soluble compounds – adding “as Tl” to the description; Tungsten insoluble compounds – adding “metal and” to the description; Antimony – adding “and compounds, as Sb” to the description; Arsenic – adding “and inorganic compounds, as As” to the description; Cadmium – adding “and compounds, as Cd” to the description; Chromium metal Cr III compounds – adding “and” to the description; Cobalt elemental and inorganic compounds – adding “as Co” to the description; Copper, dusts and mists – adding “as Cu” to the description; Hafnium – adding “and compounds, as Hf” to the description; Indium – adding “and compounds, as In” to the description; Lead chromate, (TLV for Cr) – deleting “(TLV for Cr)” and adding “as Cr” to the description; Selenium – adding “and compounds, as Se” to the description; Tellurium hexafluoride – adding “as Te” to the description; Strontium chromate – adding “as Cr” to the description; Stibine Antimony hydride – deleting “Stibine” from the description; Asphalt fumes (as total particulate) – deleting “fumes (as total particulate)” and adding “(Bitumen) fume, as benzene soluble aerosol, inhalable fraction” to the description; Subtilisin (100% pure crystalline enzyme) – adding “as crystalline active enzyme” to the description; Cobalt carbonyl – adding “as Co” to the description; Manganese cyclopentadienyl tricarbonyl – adding “as Mn” to the description; 2-Methylcyclopentadienyl manganese tricarbonyl – adding “as Mn” to the description; Nickel carbonyl – adding “as Ni” to the description; Iron pentacarbonyl – adding “as Fe” to the description; Calcium chromate – adding “as Cr” to the description; Cobalt hydrocarbonyl – adding “as Co” to the description; Osmium tetroxide – adding “as Os” to the description; Coal tar pitch volatiles – adding “as benzene soluble aerosol” to the description; Lead, inorganic compounds as Pb – adding “and” to the description;

so that Env-A 1450.01 reads as follows:

CAS Number	Description	Toxicity Class ^A	24-Hr AAL (µg/m ³)	Annual AAL (ug/m ³)	24-Hr De Minimis ^B (lbs/day)	Annual De Minimis (lbs/yr)
0-00-0	Coat Dust (anthracite), <i>respirable fraction</i>	II	2.0	1.3	0.024	8.7
0-00-0	Coal Dust (bituminous), <i>respirable fraction</i>	II	4.5	3.0	0.053	20
0-00-0	Iron salts, soluble, <i>as Fe</i>	III	42	9.9	0.50	161
0-00-0	Mineral wool fibers	II	44	34	1.7	554
0-00-0	Soapstone, <i>containing no asbestos</i> , inhalable dust	II	30	20	0.36	130
0-00-0	Soapstone, <i>containing no asbestos</i> , respirable dust	II	15	10	0.18	65
52-68-6	Trichlorophon, <i>inhalable fraction</i>	I	3.6	2.4	0.43	16
56-23-5	Carbon tetrachloride	I	111	74 100	1.3	481
57-12-5	Cyanide	I	48	42	0.21	78
64-17-5	Ethanol	II	9457 6714	6304 4476	112 80	41010 29115

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Adopted Rule February 18, 2011

CAS Number	Description	Toxicity Class ^A	24-Hr AAL (µg/m ³)	Annual AAL (ug/m ³)	24-Hr De Minimis ^B (lbs/day)	Annual De Minimis (lbs/yr)
67-63-0	Isopropanol <i>2-Propanol</i>	I	1757	1171	21	7619
74-99-7 59355-75-8	Methyl acetylene-propadiene mixture	II	8249	5500	98	35771
<i>75-04-7</i>	<i>Ethylamine</i>	<i>III</i>	<i>46</i>	<i>31</i>	<i>0.55</i>	<i>199</i>
75-55-8	Propyleneimine	I	47 <i>1.7</i>	44 <i>1.1</i>	0.20 <i>0.020</i>	74 <i>7.2</i>
75-86-5	Acetone cyanohydrin, <i>as CN</i>	I	18	12	0.21	78
79-06-1	Acrylamide, inhalable fraction and vapor	I	0.11 <i>6.0</i>	0.071 <i>6.0</i>	0.0013 <i>0.071</i>	0.48 <i>26</i>
<i>79-43-6</i>	<i>Dichloroacetic acid</i>	<i>I</i>	<i>9.4</i>	<i>6.3</i>	<i>0.11</i>	<i>41</i>
<i>85-00-1</i>	<i>Diquat dibromide, inhalable fraction (see Diquat, inhalable fraction)</i>					
85-42-7	Hexahydrophthalic anhydride, <i>inhalable fraction and vapor</i>	II	0.0025	0.0017	0.000030	0.011
96-18-4	1,2,3-Trichloropropane	I	214	143 <i>0.30</i>	2.5	928 <i>4.9</i>
99-55-8	5-Nitro-o-toluidine, <i>inhalable fraction</i>	II	5.0	3.4	0.060	22
99-65-0	<i>1,3-Dinitrobenzene</i>	I	3.6	2.4	0.043	16
100-25-4	<i>1,4-Dinitrobenzene</i>	II	5.0	3.4	0.059	22
101-84-8	Phenyl ether, <i>vapor</i>	III	104	69	1.2	451
102-54-5	Dicyclopentadienyl ion, <i>as Fe</i>	II	50	34	0.59	217
105-46-4	see Butyl acetate	III	39583	9425	470	153439
107-21-1	Ethylene glycol, <i>aerosol</i>	II	503	335	6.0	2181
107-66-4	Dibutyl phosphate, <i>inhalable fraction and vapor</i>	III	358 <i>104</i>	85 <i>50</i>	4.3 <i>1.2</i>	1384 <i>451</i>
107-98-2	Propylene glycol monomethyl ether <i>1-Methoxy-2-propanol</i>	II	2000	2000	24	8673
<i>108-08-7</i>	<i>2,4-Dimethylpentane (see Heptane, all isomers)</i>					

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Adopted Rule February 18, 2011

CAS Number	Description	Toxicity Class ^A	24-Hr AAL (µg/m ³)	Annual AAL (ug/m ³)	24-Hr De Minimis ^B (lbs/day)	Annual De Minimis (lbs/yr)
111-42-2	Diethanolamine, <i>inhalable fraction and vapor</i>	I	40 3.6	4.8 2.4	0.12 0.042	43 15
111-76-2	2-Butoxyethanol	I	13000 1600	13000 1600	154 19	56374 6938
115-29-7	Endosulfan, <i>inhalable fraction and vapor</i>	I	0.36	0.24	0.0043	1.6
117-81-7	Di-sec-octyl phthalate <i>Di(2-ethyl hexyl)phthalate</i>	I	18	12	0.21	78
123-73-9	Crotonaldehyde	I	3.1	2.0	0.037	13
123-91-1	<i>1,4-Dioxane</i>	I	258	172	3.1	1119
133-06-2	Captan, <i>inhalable fraction</i>	I	18	12	0.21	78
151-56-4	Ethyleneimine	I	3.1 0.31	2.1 0.21	0.037 0.0037	13 1.4
<i>156-06-5</i>	<i>trans-1,2-Dichloroethene</i>	<i>II</i>	<i>3989</i>	<i>2659</i>	<i>47</i>	<i>17298</i>
298-00-0	Methyl parathion, <i>inhalable fraction and vapor</i>	I	0.71 0.071	0.48 0.048	0.0084 0.00084	3.1 0.31
528-29-0	<i>1,2-Dichlorobenzene</i>	II	5.0	3.4	0.059	22
540-88-5	tert-Butyl acetate	III	39583	9425	470	153439
542-56-3	Isobutyl nitrite, <i>inhalable fraction and vapor</i>	II	24	14	0.29	104
552-30-7	Trimetallic anhydride, <i>inhalable fraction and vapor</i>	II	0.0030	0.0020	0.000036	0.013
<i>565-59-3</i>	<i>2,3-Dimethylpentane (see Heptane, all isomers)</i>					
<i>589-34-4</i>	<i>3-Methylhexane (see Heptane, all isomers)</i>					
<i>590-35-2</i>	<i>2,2-Dimethylpentane (see Heptane, all isomers)</i>					
<i>591-76-4</i>	<i>2-Methylhexane (see Heptane, all isomers)</i>					
591-78-6	Methyl-n-butyl ketone	II	101	67 30	1.2	438
626-17-5	m-Phthalodinitrile, <i>inhalable fraction and vapor</i>	II	25	17	0.30	108
872-50-4	Methylpyrrolidone <i>n-Methyl-2-pyrrolidone</i>	I	1429	952	17	6197

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Adopted Rule February 18, 2011

CAS Number	Description	Toxicity Class ^A	24-Hr AAL (µg/m ³)	Annual AAL (ug/m ³)	24-Hr De Minimis ^B (lbs/day)	Annual De Minimis (lbs/yr)
1189-85-1	tert-Butyl chromate, <i>as CrO₃</i>	III	1.7	0.99	0.020	7.4
1303-00-0	Gallium arsenide, <i>respirable fraction</i>	I	0.0010	0.0010	0.000012	0.0043
1304-81-1 1304-82-1	Bismuth telluride Se-doped, <i>as Bi₂Te₃</i>	II	25	17	0.30	108
1309-48-4	Magnesium oxide fume , <i>inhalable fraction</i>	III	208	99	2.5	902
1314-13-2	Zinc oxide, <i>respirable fraction</i>	II	50	34	0.59	217
1314-61-0	Tantalum oxide <i>dust, as Ta</i>	III	74	50	0.88	321
1314-62-1	Vanadium pentoxide <i>as Va, inhalable fraction</i>	I	0.18	0.12	0.0021	0.78
1317-95-9	Silica, Crystalline – Tripoli, respirable fraction	I	0.089	0.060	0.0011	0.39
1332-58-7	Kaolin, <i>containing no asbestos, respirable fraction</i>	II	10	6.7	0.12	43
1344-95-2	Calcium silicate <i>synthetic non-fibrous, containing no asbestos</i>	III	417	99	5.0	1612
1395-21-7	Subtilisins (Proteolytic enzymes) <i>as crystalline active enzyme</i>	II	0.0010	0.0010	0.000012	0.0043
2104-64-5	EPN, <i>inhalable fraction</i>	I	0.36	0.24	0.0043	1.6
2764-72-9	Diquat, <i>inhalable fraction</i>	I	1.8	1.2	0.021	7.8
6385-62-2	Diquat dibromide monohydrate, inhalable fraction (see Diquat, inhalable fraction)					
7439-92-1	Lead, <i>and</i> inorganic compounds as Pb	I	0.15	0.12	0.0018	0.65
7439-96-5	Manganese, elemental and inorganic compounds, <i>as Mn</i>	II	1.0	0.050	0.012	0.81
7439-97-6	Mercury, inorganic forms including metallic <i>elemental and inorganic forms</i>	I	0.30	0.30	0.0036	1.3
7440-02-0	Nickel Sulfide Roasting (dust and fume)	I	3.6	2.4	0.043	16
7440-02-0	Nickel, insoluble, <i>inorganic</i> compounds, as Ni, <i>inhalable fraction</i>	I	3.6	2.4	0.043	16
7440-02-0	Nickel, metal <i>elemental, as Ni, inhalable fraction</i>	I	3.6	2.4	0.043	16
7440-02-0	Nickel, soluble <i>inorganic</i> compounds, as Ni, <i>inhalable fraction</i>	I	0.36	0.24	0.0043	1.6
7440-06-4	Platinum, soluble salts, <i>as Pt</i>	II	0.010	0.0070	0.00012	0.043
7440-16-6	Rhodium metal <i>and insoluble compounds</i>	III	42	9.9	0.50	161

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CAS Number	Description	Toxicity Class ^A	24-Hr AAL (µg/m ³)	Annual AAL (ug/m ³)	24-Hr De Minimis ^B (lbs/day)	Annual De Minimis (lbs/yr)
7440-16-6	Rhodium, insoluble compounds	III	42	9.9	0.50	161
7440-22-4	Silver metal, <i>dust and fume</i>	II	0.50	0.34	0.0059	2.2
7440-25-7	Tantalum <i>metal and oxide</i>	III	74	50	0.88	321
7440-28-0	Thallium, elemental and soluble compounds, <i>as Tl</i>	I	0.36	0.24	0.0043	1.6
7440-33-7	Tungsten <i>metal and</i> insoluble compounds	I	18	12	0.21	78
7440-36-0	Antimony <i>and compounds, as Sb</i>	I	1.8	1.2	0.21	7.8
7440-38-2	Arsenic <i>and inorganic compounds, as As</i>	I	0.036	0.024	0.00043	0.16
7440-41-7	Beryllium and compounds, as Be, <i>inhalable fraction</i>	I	0.0071 0.18	0.0048 0.020	0.000084 0.0021	0.031 0.033
7440-43-9	Cadmium <i>and compounds, as Cd</i>	I	0.036	0.024	0.00043	0.16
7440-47-3	Chromium metal <i>and</i> Cr III compounds	I	1.8	1.2	0.021	7.8
7440-48-4	Cobalt elemental and inorganic compounds, <i>as Co</i>	I	0.071	0.048	0.00084	0.31
7440-50-8	Copper, dusts and mists, <i>as Cu</i>	I	3.6	2.4	0.043	16
7440-58-6	Hafnium <i>and compounds, as Hf</i>	III	7.4	5.0	0.088	32
7440-66-6	Zinc (as zinc oxide dust)	II	50	34	0.59	217
7440-66-6	Zinc (as zinc oxide fume)	II	25	17	0.30	108
7440-74-6	Indium <i>and compounds, as In</i>	I	0.36	0.24	0.0043	1.6
7631-86-9	Silica, amorphous, fumed	II	40	6.7	0.12	43
7758-97-6	Lead chromate, (TLV for Cr) <i>as Cr</i>	I	0.043	0.029	0.00051	0.19
7778-18-9	Calcium sulfate, the anhydride — inhalable fraction	III	149	99	1.8	646
7782-42-5	Graphite (all forms except graphite fibers), <i>respirable fraction</i>	II	28	6.7	0.33	109
7782-49-2	Selenium <i>and compounds, as Se</i>	I	0.71	0.48	0.0084	3.1
7783-80-4	Tellurium hexafluoride, <i>as Te</i>	I	0.36	0.24	0.0043	1.6
7784-40-9	Lead arsenate	I	0.54	0.36	0.0064	2.3

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Adopted Rule February 18, 2011

CAS Number	Description	Toxicity Class ^A	24-Hr AAL (µg/m ³)	Annual AAL (ug/m ³)	24-Hr De Minimis ^B (lbs/day)	Annual De Minimis (lbs/yr)
7789-06-2	Strontium chromate, <i>as Cr</i>	I	0.0018	0.0012	0.000021	0.0078
7803-52-3	Stibine Antimony hydride	I	1.8	1.2	0.021	7.8
8032-32-4	VM&P naphtha	I	6850	3262	81	29705
8030-30-6	Rubber solvent (naphtha)	II	7998	5332	95	34683
8052-42-4	Asphalt fumes (as total particulate) (<i>Bitumen</i>) fume, as benzene soluble aerosol, <i>inhalable fraction</i>	II	25	17	0.30	108
9014-01-1	Subtilisins (100% pure crystalline enzyme) <i>as crystalline active enzyme</i>	II	0.0010	0.0010	0.000012	0.0043
10034-76-1	Calcium sulfate, the hemihydrate, inhalable fraction	III	149	99	1.8	646
10101-41-4	Calcium sulfate, the dihydrate, inhalable fraction	III	149	99	1.8	646
10210-68-1	Cobalt carbonyl, <i>as Co</i>	II	0.50	0.34	0.0059	2.2
11292-00-8	Silica gel	II	50	34	0.59	217
12001-26-2	Mica, <i>respirable fraction</i>	II	15	10	0.18	65
12079-65-1	Manganese cyclopentadienyl tricarbonyl, <i>as Mn</i>	I	0.36	0.24	0.0043	1.6
12108-13-3	2-Methylcyclopentadienyl manganese tricarbonyl, <i>as Mn</i>	I	0.71	0.48	0.0084	3.1
12656-85-8	Molybdate Orange (as molybdenum, soluble), <i>respirable fraction</i>	I	18	12	0.21	78
13149-00-3	Hexahydrophthalic anhydride, all isomers, <i>inhalable fraction and vapor</i>	II	0.0025	0.0017	0.000030	0.011
13397-24-5	Calcium sulfate, gypsum	III	149	99	1.8	646
13463-39-3	Nickel carbonyl, <i>as Ni</i>	I	0.43	0.29	0.0051	1.9
13463-40-6	Iron pentacarbonyl, <i>as Fe</i>	I	1.2	0.55	0.014	5.2
13765-19-0	Calcium chromate, <i>as Cr</i>	I	0.0036	0.0024	0.000043	0.016
14484-64-1	Ferbam, <i>inhalable fraction</i>	II I	50 18	34 12	0.59 0.21	217 78
14807-96-6	Talc containing no asbestos fibers, <i>respirable fraction</i>	II	10	6.7	0.12	43
16842-03-8	Cobalt hydrocarbonyl, <i>as Co</i>	II	0.50	0.34	0.0059	2.2
20816-12-0	Osmium tetroxide, <i>as Os</i>	II	0.011	0.0054	0.00013	0.048

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Adopted Rule February 18, 2011

CAS Number	Description	Toxicity Class ^A	24-Hr AAL (µg/m ³)	Annual AAL (ug/m ³)	24-Hr De Minimis ^B (lbs/day)	Annual De Minimis (lbs/yr)
<i>25154-54-5</i>	<i>Dinitrobenzene, mixed isomers</i>	<i>II</i>	<i>5.0</i>	<i>3.4</i>	<i>0.060</i>	<i>22</i>
35400-43-2	Sulprofos, <i>inhalable fraction</i>	I	3.6 <i>0.36</i>	2.4 <i>0.24</i>	0.043 <i>0.0042</i>	16 <i>1.5</i>
65996-93-2	Coal tar pitch volatiles, <i>as benzene soluble aerosol</i>	I	0.71	0.48	0.0084	3.1