

**HAZARDOUS AIR POLLUTANTS (HAPs)**

**HAPs that are not chargeable are shaded. Unless otherwise indicated by  
“ \* ” in the CAS # column, all HAPs are also considered VOCs or PM<sub>10</sub>.**

NOTE: Methyl ethyl ketone (2-Butanone) CAS 78933, and Ethylene glycol monobutyl ether CAS 111762 are no longer considered to be HAPs for the Clean Air Act.

<b>CAS #</b>	<b>Pollutant</b>	<b>Minimum Reportable Emissions (lbs/yr)</b>	<b>Corresponding Tons/Yr</b>
71556 *	1,1,1-Trichloroethane	500	0.25
79345	1,1,2,2-Tetrachloroethane	145.68	0.07
79005	1,1,2-Trichloroethane	500	0.25
72559	1,1-dichloro-2,2-bis(p-chlorophenyl)ethylene)	0	0
75343	1,1-Dichloroethane	500	0.25
75354	1,1-Dichloroethylene	420.71	0.21
57147	1,1-Dimethyl hydrazine	0.52	0
120821	1,2,4-Trichlorobenzene	500	0.25
120821	1,2,4-Trichlorobenzol	500	0.25
106887	1,2-Butene oxide	0	0
106887	1,2-Butylene Oxide	0	0
96128	1,2-Dibromo-3-chloropropane	0	0
106934	1,2-Dibromoethane	0	0
107062	1,2-Dichloroethane	500	0.25
78875	1,2-Dichloropropane	500	0.25
95476	1,2-Dimethylbenzene	500	0.25
122667	1,2-Diphenylhydrazine	0	0
106887	1,2-Epoxybutane	0	0
1120714	1,2-Oxathiolane 2,2-dioxide	0	0
75558	1,2-Propylenimine (2-Methylaziridine)	99.1	0.05
106990	1,3-Butadiene	31.28	0.02
542756	1,3-Dichloropropene	96.3	0.05
108383	1,3-Dimethylbenzene	500	0.25
1120714	1,3-Propane sultone	0	0
106467	1,4-Dichlorobenzene(p)	500	0.25
123911	1,4-Diethyleneoxide	500	0.25
106423	1,4-Dimethylbenzene	500	0.25
123911	1,4-Dioxane	500	0.25
106898	1-Chloro-2,3-epoxypropane	40.15	0.02
121142	1-Methyl-2,4-dinitrobenzene	4.24	0
540841	2,2,4-Trimethylpentane	0	0
1746016	2,3,7,8-Tetrachlorodibenzo-p-Dioxin	0	0
94757 *	2,4 Dichlorophenoxyacetic acid	212.2	0.11
95954	2,4,5-Trichlorophenol	0	0
88062	2,4,6-Trichlorophenol	0	0
94757 *	2,4-D, salts and esters	212.2	0.11
95807	2,4-Diaminotoluene	0	0
584849	2,4-Diisocyanatoluene	0.76	0
51285	2,4-Dinitrophenol	0	0
121142	2,4-Dinitrotoluene	4.24	0
51285	2,4-DNP	0	0
95807	2,4-Toluene diamine	0	0
584849	2,4-Toluenediisocyanate	0.76	0
53963	2-Acetylaminofluorene	0	0
111762	2-Butoxy-Ethanol	500	0.25
532274	2-Chloroacetophenone	6.71	0
126998	2-Chloro-1,3,Butadiene	500	0.25
532274	2-Chloro-1-phenylethanone	6.71	0.25
75558	2-Methylaziridine	99	0.05

HAZARDOUS AIR POLLUTANTS (HAPs)			
HAPs that are not chargeable are shaded. Unless otherwise indicated by “ * ” in the CAS # column, all HAPs are also considered VOCs or PM <sub>10</sub> .			
79469	2-NP	500	0.25
79469	2-Nitropropane	500	0.25
91941	3,3-Dichlorobenzidine	0	0
119904	3,3-Dimethoxybenzidine	0	0
119937	3,3'-Dimethyl benzidine	0	0
96128	3-Chloro-1,2-dibromopropane	0	0
91941	4,4-Diamino-3,3-dichlorobiphenyl	0	0
101144	4,4-Methylene bis(2-chloraniline)	0.77	0
101144	4,4'-Methylenebis[2-chlorobenzenamine]	0.77	0
101779	4,4'-Methylene dianiline	17.21	0.01
534521	4,6-Dinitro-o-cresol and salts	4.24	0
101779	4-(4-Aminobenzyl)aniline	17.21	0.01
92671	4-Aminobiphenyl	0	0
92933	4-Nitrobiphenyl	0	0
100027	4-Nitrophenol	0	0
75070	Acetaldehyde	500	0.25
60355	Acetamide	0	0
75070	Acetic Aldehyde	500	0.25
75058	Acetonitrile	500	0.25
98862	Acetophenone	500	0.25
107028	Acrolein	3.62	0
79061	Acrylamide	0.64	0
79107 *	Acrylic acid	125.08	0.06
107131	Acrylonitrile	92.08	0.05
51285	Aldifen	0	0
107051	Allyl chloride	66.39	0.03
62533	Aniline	161.64	0.08
7440360	Antimony	10.61	0.01
	Antimony Compounds	10.61	0.01
7783702	Antimony Pentafluoride	10.61	0.01
	Arsenic	0.21	0
	Arsenic Compounds	0.07	0
1327533	Arsenic Trioxide	0.07	0
7784421	Arsine	3.38	0
1332214	Asbestos	0	0
71432	Benzene (including benzene for gasoline)	33.9	0.02
	Benzene Sol Org	95	0
92875	Benzidine	0	0
98077	Benzotrichloride	12.64	0.01
100447	Benzyl chloride	109.86	0.05
7440417	Beryllium	0.04	0
	Beryllium Compounds	0.01	0
57578	Beta-Propiolactone	31.27	0.02
92524	Biphenyl	26.77	0.01
542881	Bis(chloromethyl)ether	0	0
117817	Bis(2-ethylhexyl)phthalate (DEHP)	106.1	0.05
1375543	Bisphenol A Diglycidyl Ether	0	0
75252	Bromoform	109.7	0.05
74839	Bromomethane	82.41	0.04
106990	Butadiene	31.23	0.02
7440439	Cadmium	0.07	0
	Cadmium Compounds	0.01	0
156627	Calcium cyanamide	10.61	0.01
133062	Captan	106.1	0.05
63252	Carbaryl	106.1	0.05
75150	Carbon disulfide	500	0.25
463581	Carbon oxide sulfide (COS)	0	0

HAZARDOUS AIR POLLUTANTS (HAPs)			
HAPs that are not chargeable are shaded. Unless otherwise indicated by “ * ” in the CAS # column, all HAPs are also considered VOCs or PM <sub>10</sub> .			
	Carbon oxysulfide	0	0
56235	Carbon tetrachloride	222.42	0.11
463581	Carbonyl sulfide	0	0
120809	Catechol	477.82	0.24
133904	Chloramben	0	0
57749 ^	Chlordane	10.61	0.01
7782505 *	Chlorine	30.77	0.02
79118 *	Chloroacetic acid	4.88	0
108907	Chlorobenzene	500	0.25
510156	Chlorobenzilate	0	0
75003	Chloroethane	500	0
67663	Chloroform	500	0.25
74873	Chloromethane	500	0.25
107302	Chloromethyl methyl ether	0	0
126998	Chloroprene	500	0.25
7440473	Chromium	10.61	0.01
75456560	Chromium Compounds	0.07	0
1333820	Chromium Oxide	0.07	0
18540299	Chromium VI	0.07	0
542756	Cis-1,3-Dichloropropene	96.32	0.05
7440484	Cobalt	0.42	0
	Cobalt Compounds	0.42	0
62207765	Cobalt, ((2,2'-1(1,2-Ethanediy)bis	0.42	0
	Coke Oven Emissions	0	0
544923	Copper(1)Cyanide	0	0
1319773	Cresols	469.27	0.23
1319773 *	Cresols/Cresylic acid (isomers and mixt.)	469.27	0.23
98828	Cumene	500	0.25
101144	Curene (AKA-4,4-Methylene Bis(2Chloroaniline)	0.77	0
57125	Cyanide	0	0
	Cyanide Compounds	0	0
72559	DDE	0	0
121142	DNT	0	0
334883	Diazomethane7	2.43	0
132649	Dibenzofurans	0	0
106934	Dibromoethane	0	0
84742	Dibutylphthalate	106.1	0.05
111444	Dichloroethyl ether (Bis(2- chloroethyl)ether)	500	0.25
75092	Dichloromethane	500	0.25
62737	Dichlorvos	19.1	0.01
111422	Diethanolamine	42.44	0.02
64675	Diethyl sulfate	0	0
111466	Diethylene Glycol	0	0
111900	Diethylene Glycol Monoethyl Ether	0	0
124174	Diethylene Glycol Monoethyl Ether A	0	0
60117	Dimethyl aminoazobenzene	0	0
79447	Dimethyl carbamoyl chloride	0	0
68122	Dimethyl formamide	500	0.25
131113	Dimethyl phthalate	106.1	0.05
79469	Dimethylnitromethane	500	0.25
77781	Dimethyl sulfate	10.94	0.01
34590946	Dipropylene Glycol Methyl Ether	500	0.25
	Dipropylene Glycol Monomethyl Ether	0	0
95954	Dowicide B	0	0
95954	Dowicide 2	0	0

HAZARDOUS AIR POLLUTANTS (HAPs)			
HAPs that are not chargeable are shaded. Unless otherwise indicated by “ * ” in the CAS # column, all HAPs are also considered VOCs or PM <sub>10</sub> .			
88062	Dowicide 2S	0	0
106898	Epichlorohydrin	40.15	0.02
100425	Ethynylbenzene	500	0.25
140885	Ethyl acrylate	323.67	0.16
100414	Ethyl benzene	500	0.25
51796	Ethyl carbamate (Urethane)	0	0
75003	Ethyl chloride (Chloroethane)	500	0.25
106934	Ethylene dibromide	0	0
107062	Ethylene dichloride (1,2-Dichloroethane)	500	0.25
107211	Ethylene glycol	500	0.25
110496	Ethylene Glycol Monomethyl Ether A	0	0
122996	Ethylene Glycol Monophenyl Ether	0	0
2807309	Ethylene Glycol Monopropyl Ether	0	0
151564	Ethylene imine (Aziridine)	18.69	0.01
75218	Ethylene oxide	38.23	0.02
96457	Ethylene thiourea	0	0
75343	Ethylidene dichloride (1,1-Dichloroethane)	500	0.25
	Fine mineral fibers	21.22	0.01
50000	Formaldehyde	5.83	0
	Glycol ethers	0	0
112072	Glycol Monobutylether Acetate	0	0
76448	Heptachlor	1.06	0
118741	Hexachlorobenzene	0.04	0
87683	Hexachlorobutadiene	4.53	0
77474	Hexachlorocyclopentadiene	2.37	0
67721	Hexachloroethane	205.47	0.1
680319	Hexamethyl phosphoramidate	0	0
822060	Hexamethylene-1,6-diisocyanate	0.72	0
110543	Hexane	500	0.25
108101	Hexone	500	0
107415	Hexylene Glycol	500	0.25
302012	Hydrazine	0.28	0
122667	Hydrazobenzene	0	0
7647010 *	Hydrochloric acid	117.91	0.06
74908 *	Hydrocyanic acid	82.15	0.04
7664393 *	Hydrofluoric acid	38.82	0.02
7647010 *	Hydrogen Chloride	117.91	0.06
74908 *	Hydrogen Cyanide	82.15	0.04
7664393 *	Hydrogen Fluoride	38.82	0.02
123319	Hydroquinone	42.41	0.02
540841	Isooctane	0	0
78591	Isophorone	446.85	0.22
98828	Isopropylbenzene AKA-Cumene	500	0.25
7439921	Lead	0	0
	Lead Compounds	0	0
58899	Lindane (all isomers)	10.61	0.01
74884	Iodomethane	246.4	0.12
	M/P Xylene	500	0.25
108316	Maleic anhydride	8.51	0
7439965	Manganese	4.24	0
	Manganese Compounds	4.24	0
108394	m-Cresol	469.27	0.23
1600277	Mercuric Acetate	0.21	0
21908532	Mercuric Oxide	0.21	0
7439976 *	Mercury	0.21	0
	Mercury Compounds	0.21	0
67561	Methanol	500	0.25

HAZARDOUS AIR POLLUTANTS (HAPs)			
HAPs that are not chargeable are shaded. Unless otherwise indicated by “ * ” in the CAS # column, all HAPs are also considered VOCs or PM <sub>10</sub> .			
72435	Methoxychlor	212.2	0.11
151382	Methoxyethylmercuric Acetate	0.21	0
74839	Methyl bromide (Bromomethane)	82.41	0.04
74873	Methyl chloride (Chloromethane)	500	0.25
71556 *	Methyl chloroform (1,1,1-Trichloroethane)	500	0.25
60344	Methyl hydrazine	0.4	0
74884	Methyl iodide (Iodomethane)	246.46	0.12
108101	Methyl isobutyl ketone (Hexone)	500	0.25
624839	Methyl isocyanate	0.99	0
502396	Methyl Mercuric Dicyanamide	0.21	0
80626	Methyl methacrylate	500	0.25
1634044	Methyl tert butyl ether	500	0.25
75092 *	Methylene chloride (Dichloromethane)	500	0.25
101688	Methylene diphenyl diisocyanate	1.09	0
60344	Methylhydrazine	0.4	0
108907	Monochlorobenzene	500	0.25
108383	m-Xylenes	500	0.25
121697	N,N-Diethyl aniline (N,N-Dimethylaniline)	500	0.25
91203	Naphthalene	500	0.25
7440022	Nickel	31.83	0.02
	Nickel Compounds	2.12	0
90040	Nitrilotriacetic Acid Nickel(+2) H440022	0	0
34831033 *	Nitrilotriacetic Acid, Antimony(+3)	0	0
46242448 *	Nitrilotriacetic Acid, Beryllium S	0	0
18432547 *	Nitrilotriacetic Acid, Cobalt (+3)	0	0
23319519 *	Nitrilotriacetic Acid, Manganese S	0	0
18983727 *	Nitrilotriacetic Acid, Cadmium (+2)	0	0
98953	Nitrobenzene	106.85	0.05
57147	N,N-Dimethylhydrazine	0.52	0
62759	N-Nitrosodimethylamine	0	0
59892	-Nitrosomorpholine	0	0
684935	N-Nitroso-N-methylurea	0	0
119904	o,o-Diansidine	0	0
90040	o-Anisidine	10.69	0.01
95487	o-Cresol	469.27	0.23
95534	o-Toluidine	185.99	0.09
95476	o-Xylenes	500	0.25
	PAH	0	0
106467	para-Dichlorobenzene	500	0.25
56382	Parathion	2.12	0
92671	p-Aminodiphenyl	0	0
	p-Cresol	469.27	0.23
106467	P-Dichlorobenzene	500	0.25
92933	p-Nitrobiphenyl	0	0
92671	p-Phenylaniline	0	0
82688	Pentachloronitrobenzene (Quintobenzene)	10.61	0.01
87865	Pentachlorophenol	10.61	0.01
127184	Perchloroethylene	500	0.25
88062	Phenachlor	0	0
108952	Phenol	408.39	0.2
64006	Phenol, 3-(1-Methylethyl)-Methylca	0	0
100414	Phenylethane	500	0.25
62384	Phenylmercuric Acetate	0.21	0
75445	Phosgene	8.59	0
7803512 *	Phosphine	8.85	0

HAZARDOUS AIR POLLUTANTS (HAPs)			
HAPs that are not chargeable are shaded. Unless otherwise indicated by “ * ” in the CAS # column, all HAPs are also considered VOCs or PM <sub>10</sub> .			
7723140 *	Phosphorus	2.15	0
	Phosphorus Compounds	2.12	0
85449	Phthalic anhydride	128.54	0.06
1336363	Polychlorinated biphenyls (Aroclors)	0	0
	Polycyclic aromatic hydrocarbons	0	0
	Polycyclic Organic Matter (POM)	0	0
106503	p-Phenylenediamine	2.12	0
123386	Propionaldehyde	0.00	0
114261	Propoxur (Baygon)	10.61	0.01
78875	Propylene dichloride (1,2-Dichloropropane)	500	0.25
57018527	Propylene Glycol Butyl Ether	0	0
107982	Propylene Glycol Monomethyl Ether	500	0.25
75569	Propylene oxide	500	0.25
106467	p-Dichlorobenzene	500	0.25
106423	p-Xylenes	500	0.25
91225	Quinoline	0	0
106514	Quinone	9.38	0
82688	Quintobenzene	10.61	0.01
	Radionuclides (including radon) /5/	0	0
7782492	Selenium	4.24	0
	Selenium Compounds	4.24	0
7791233	Selenium Oxychloride	4.24	0
100425	Styrene	500	0.25
96093	Styrene oxide	0	0
7664939 *	Sulfuric Acid, Nickel(2+) Salt (1	7.07	0
1746016	TCDD	0	0
	TCDF	0	0
95807	TDA	0	0
127184	Tetrachloroethylene (Perchloroethylene)	500	0.25
25322207	Tetrachloroethane	0	0
7550450 *	Titanium tetrachloride	0	0
108883	Toluene	500	0.25
95807	Toluene-2,4-diamine	0	0
26471625	Toluene-2,4-Diisocyanate	0.56	0
8001352	Toxaphene (chlorinated camphene)	10.61	0.01
542756	Trans-1,3-Dichloropropene	96.32	0.05
12002481	Trichlorobenzene	0	0
79016	Trichloroethylene	500	0.25
121448	Triethylamine	87.82	0.04
	Triethylene Glycol	0	0
1582098	Trifluralin	0	0
108054	Vinyl acetate	500	0.25
593602	Vinyl bromide	15.46	0.01
75014	Vinyl chloride	18.07	0.01
79005	Vinyl Trichloride	500	0.25
75354	Vinylidene chloride (1,1-Dichloroethylene)	420.71	0.21
1330207	Xylenes (isomers and mixture)	500.00	0.25