

APPENDIX III
REPORTING LEVELS OF HAZARDOUS AIR POLLUTANTS FOR EMISSION INVENTORY

CAS #	Chemical Name	Reporting Level Pounds/year)	Uses ^a
57147	1,1-Dimethyl hydrazine	16	T,A
79005	1,1,2-Trichloroethane	1,000	T,I
79345	1,1,2,2-Tetrachloroethane	300	T,I
96128	1,2-Dibromo-3-chloropropane	20	T,A
122667	1,2-Diphenylhydrazine	90	T,I
106887	1,2-Epoxybutane	1,000	T,I
75558	1,2-Propylenimine (2-Methyl aziridine)	6	T,A
120821	1,2,4-Trichlorobenzene	2,000	T,I
106990	1,3-Butadiene	70	T,I
542756	1,3-Dichloropropene	1,000	T,I
1120714	1,3-Propane sultone	30	T,I
106467	1,4-Dichlorobenzene(p)	1,000	T,I
123911	1,4-Dioxane (1,4-Diethyleneoxide)	2,000	T,I
53963	2-Acetylaminofluorine	10	T,A
532274	2-Chloroacetophenone	60	T,I
79469	2-Nitropropane	1,000	T,I
540841	2,2,4-Trimethylpentane	2,000	T,I
1746016	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.0012	T,A
584849	2,4-Toluene diisocyanate	100	T,I
51285	2,4-Dinitrophenol	1,000	T,I
121142	2,4-Dinitrotoluene	20	T,A
94757	2,4-D, salts, esters (2,4-Dichlorophenoxy acetic acid)	2,000	T,I
95807	2,4-Toluene diamine	20	T,A
95954	2,4,5-Trichlorophenol	1,000	T,I
88062	2,4,6-Trichlorophenol	2,000	T,A
91941	3,3-Dichlorobenzidine	200	T,I
119904	3,3'-Dimethoxybenzidine	100	T,I
119937	3,3'-Dimethyl benzidine	16	T,A
92671	4-Aminobiphenyl	1,000	T,I
92933	4-Nitrobiphenyl	1,000	T,I
100027	4-Nitrophenol	2,000	T,I
101144	4,4-Methylene bis (2-chloroaniline)	200	T,I
101779	4,4'-Methylenedianiline	1,000	T,I
534521	4,6-Dinitro-o-cresol, and salts	100	T,I
75070	Acetaldehyde	2,000	T,I
60355	Acetamide	1,000	T,I
75058	Acetonitrile	1,000	T,I
98862	Acetophenone	1,000	T,I
79061	Acrylamide	20	T,A
79107	Acrylic acid	600	T,I
107131	Acrylonitrile	300	T,I
107051	Allyl chloride	1,000	T,I
62533	Aniline	1,000	T,I
71432	Benzene	1,000	T,I
92875	Benzidine	0.6	T,A
98077	Benzotrichloride	12	T,A
100447	Benzyl chloride	100	T,I
57578	beta-Propiolactone	100	T,I
92524	Biphenyl	2,000	T,I

117817	Bis(2-ethylhexyl)phthalate (DEHP)	2,000	T,I
542881	Bis(chloromethyl)ether	0.6	T,A
75252	Bromoform	2,000	T,I
156627	Calcium cyanamide	2,000	T,I
133062	Captan	2,000	T,I
63252	Carbaryl	2,000	T,I
75150	Carbon disulfide	1,000	T,I
56235	Carbon tetrachloride	1,000	T,I
463581	Carbonyl sulfide	2,000	T,I
120809	Catechol	2,000	T,I
133904	Chloramben	1,000	T,I
57749	Chlordane	20	T,A
7782505	Chlorine	100	T,I
79118	Chloroacetic acid	100	T,I
108907	Chlorobenzene	2000	T,I
510156	Chlorobenzilate	400	T,I
67663	Chloroform	900	T,I
107302	Chloromethyl methyl ether	100	T,I
126998	Chloroprene	1,000	T,I
1319773	Cresols/Cresylic acid (isomers and mixture)	1,000	T,I
95487	o-Cresol	1,000	T,I
108394	m-Cresol	1,000	T,I
106445	p-Cresol	1,000	T,I
98828	Cumene	2,000	T,I
334883	Diazomethane	1,000	T,I
132649	Dibenzofuran	2,000	T,I
72559	DDE (p,p'-Dichlorodiphenyldi-chloroethylene)	20	T,A
84742	Dibutylphthalate	2,000	T,I
111444	Dichloroethyl ether (Bis(2-chloroethyl)ether)	60	T,I
62737	Dichlorvos	200	T,I
11422	Diethanolamine	2,000	T,I
64675	Diethyl sulfate	1,000	T,I
60117	Dimethyl aminoazobenzene	1,000	T,I
79447	Dimethyl carbamoyl chloride	20	T,A
68122	Dimethyl formamide	1,000	T,I
131113	Dimethyl phthalate	2,000	T,I
77781	Dimethyl sulfate	100	T,I
106898	Epichlorohydrin	1,000	T,I
140885	Ethyl acrylate	1,000	T,I
100414	Ethyl benzene	2,000	T,I
51796	Ethyl carbamate (Urethane)	800	T,I
75003	Ethyl chloride	2,000	T,I
106934	Ethylene dibromide (Dibromoethane)	100	T,I
107062	Ethylene dichloride (1,2-Dichloroethane)	800	T,I
107211	Ethylene glycol	2,000	T,I
151564	Ethylene imine (Aziridine)	6	T,A
75218	Ethylene oxide	100	T,I
96457	Ethylene thiourea	600	T,I
75343	Ethylidene dichloride (1,1-Dichloroethane)	1,000	T,I
50000	Formaldehyde	1,000	T,I
76448	Heptachlor	20	T,A
118741	Hexachlorobenzene	20	T,A
87683	Hexachlorobutadiene	900	T,I
77474	Hexachlorocyclopentadiene	100	T,I
67721	Hexachloroethane	2,000	T,I
822060	Hexamethylene,-1,6-diisocyanate	20	T,A

680319	Hexamethylphosphoramide	20	T,A
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110543	Hexane	2,000	T,I
302012	Hydrazine	8	T,A
7647010	Hydrochloric acid	2,000	T,I
7664393	Hydrogen fluoride	100	T,I
123319	Hydroquinone	1,000	T,I
78591	Isophorone	2,000	T,I
58899	Lindane (hexachlorocyclohexane, gamma)	20	T,A
108316	Maleic anhydride	1,000	T,I
67561	Methanol	2,000	T,I
72435	Methoxychlor	2,000	T,I
74839	Methyl bromide (Bromomethane)	2,000	T,I
74873	Methyl chloride (Chloromethane)	2,000	T,I
71556	Methyl chloroform (1,1,1-Trichloroethane)	2,000	T,I
60344	Methyl hydrazine	60	T,I
74884	Methyl iodide (Iodomethane)	1,000	T,I
108101	Methyl isobutyl ketone	2,000	T,I
624839	Methyl isocyanate	100	T,I
80626	Methyl methacrylate	2,000	T,I
1634044	Methyl tert-butyl ether	2,000	T,I
12108133	Methylcyclopentadienyl manganese	100	T,I
75092	Methylene chloride (Dichloromethane)	2,000	T,I
101688	Methylene diphenyl diisocyanate	100	T,I
91203	Naphthalene	2,000	T,I
98953	Nitrobenzene	1,000	T,I
62759	N-Nitrosodimethylamine	2	T,A
69892	N-Nitrosomorpholine	1,000	T,I
684935	N-Nitroso-N-methylurea	0.4	T,A
121697	N,N-Dimethylaniline	1,000	T,I
90040	o-Anisidine	1,000	T,I
95534	o-Toluidine	1,000	T,I
56382	Parathion	100	T,I
82688	Pentachloronitrobenzene (Quintobenzene)	300	T,I
87865	Pentachlorophenol	700	T,I
108952	Phenol	100	T,I
75445	Phosgene	100	T,I
7803512	Phosphine	2,000	T,I
7723140	Phosphorous	100	T,I
85449	Phthalic anhydride	2,000	T,I
1336363	Polychlorinated biphenyls (Aroclors)	18	T,A
106503	p-Phenylenediamine	2,000	T,I
123386	Propionaldehyde	2,000	T,I
114261	Propoxur (Baygone)	2,000	T,I
78875	Propylene dichloride (1,2-Dichloropropane)	1,000	T,I
75569	Propylene oxide	2,000	T,I
91225	Quinoline	12	T,A
106514	Quinone	2,000	T,I
100425	Styrene	1,000	T,I
96093	Styrene oxide	1,000	T,I
127184	Tetrachloroethylene (Perchloroethylene)	2,000	T,I
7550450	Titanium tetrachloride	100	T,I
108883	Toluene	2,000	T,I
8001352	Toxaphene (chlorinated camphene)	20	T,A
79016	Trichloroethylene	2,000	T,I
121448	Triethylamine	2,000	T,I

1582098	Trifluralin 2,000	T,I	
108054	Vinyl acetate	1,000	T,I
593602	Vinyl bromide (bromoethene)	600	T,I
75014	Vinyl chloride	200	T,I
75354	Vinylidene chloride (1,1-Dichloroethylene)	400	T,I
1330207	Xylenes (isomers and mixture)	2,000	T,I
108383	m-Xylenes	2,000	T,I
95476	o-Xylenes	2,000	T,I
106423	p-Xylenes	2,000	T,I

CHEMICAL COMPOUND CLASSES

-	Arsenic and inorganic arsenic compounds	10	T,A
7784421	Arsine	10	T,A
-	Antimony compounds (except those specifically listed)*	2,000	T,I
1309644	Antimony trioxide	1,000	T,I
1345046	Antimony trisulfide	100	T,I
7783702	Antimony pentafluoride	100	T,I
28300745	Antimony potassium tartrate	1,000	T,I
-	Beryllium compounds (except Beryllium salts)	16	T,A
-	Beryllium salts	0.04	T,A
-	Cadmium compounds	20	T,A
130618	Cadmium oxide	20	T,A
-	Chromium compounds (except Hexavalent and Trivalent)	2,000	T,I
-	Hexavalent Chromium compounds	4	T,A
-	Trivalent Chromium compounds	2,000	T,I
10025737	Chromic chloride	100	T,I
744084	Cobalt metal (and compounds, except those specifically listed)*	100	T,I
10210681	Cobalt carbonyl	100	T,I
62207765	Fluomine	100	T,I
-	Coke oven emissions	30	T,I
-	Cyanide compounds (except those specifically listed)*	2,000	T,I
143339	Sodium cyanide	100	T,I
151508	Potassium cyanide	100	T,I
-	Glycol ethers (except those specifically listed)*	2,000	T,I
110805	2-Ethoxy ethanol	2,000	T,I
108864	2-Methoxy ethanol	2,000	T,I
-	Lead and compounds (except those specifically listed)*	20	T,A
75741	Tetramethyl lead	20	T,A
78002	Tetraethyl lead	20	T,A
7439965	Manganese and compounds (except those specifically listed)*	800	T,I
12108133	Methylcyclopentadienyl manganese	100	T,I
-	Mercury compounds (except those specifically listed)*	20	T,A
10045940	Mercuric nitrate	20	T,A
748794	Mercuric chloride	20	T,A
62384	Phenyl mercuric acetate	20	T,A
-	Elemental Mercury	20	T,A
-	Mineral fiber compounds (except those specifically listed)*	b	-
1332214	Asbestos	b	-
-	Erionite	b	-
-	Silica (crystalline)	b	-
-	Talc (containing asbestos form fibers)	b	-
-	Glass wool	b	-
-	Rock wool	b	-
-	Slag wool	b	-
-	Ceramic fibers	b	-
-	Nickel compounds (except those specifically listed)*	1,000	T,I
13463393	Nickel Carbonyl	100	T,I
12035722	Nickel refinery dust	80	T,I
-	Nickel subsulfide	40	T,I
-	Polycyclic organic matter-POM (except those specifically listed)*	20	T,A
56553	Benz(a)anthracene	20	T,A

50328	Benzo(a)pyrene	20	T,A
205992	Benzo(b)fluoranthene	20	T,A
57976	7,12-Dimethylbenz(a)anthracene	20	T,A
225514	Benz(c)acridine	20	T,A
218019	Chrysene	20	T,A
53703	Dibenz(ah)anthracene	20	T,A
189559	1,2,7,8-Dibenzopyrene	20	T,A
193395	Indeno(1,2,3-cd)pyrene	20	T,A
-	Dioxins & Furans (TCDD equivalent) **	-	
7782492	Selenium and compounds (except those specifically listed)*	100	T,I
7488564	Selenium sulfide (mono and di)	100	T,I
7783075	Hydrogen selenide	100	T,I
10102188	Sodium selenite	100	T,I
13410010	Sodium selenate	100	T,I
99999918	Radionuclides (including radon)	^c	

* For this chemical group, specific compounds or subgroups are named specifically in this table. For the remainder of the chemicals in the chemical group, a single *de minimis* value is listed, and this value applies to the sum of the compounds in the group which are not named specifically.

** The “toxic equivalent factor” method in EPA/625/3-89-016, [U.S. EPA (1989) Interim procedures for estimating risk associated with exposure to mixtures] should be used for PCDD/PCDF mixtures. A different *de minimis* level will be determined for each mixture depending on the equivalency factors used which are compound specific.

^a Refer to the instruction sheet for the treatment of HAP-containing mixtures. The uses to be reported are as follows:
T = Total annual use
A = All individual processes or activities in which the HAP is used
I = Each individual process or activity with annual usage = or > the amount listed in the Reporting Level column.

^b *De minimis* values are zero pending public comment on the rule. Currently available data do not support assignment of a “trivial” emission rate, therefore, the value assigned will be policy based.

^c The EPA relies on Subparts B and I, and Appendix E of 40 CFR Part 61 and assigns a *de minimis* level based on an effective dose equivalent of 0.3 millirem per year for a 7 year exposure period that would result in a cancer risk of 1 per million. The individual radionuclides subject to *de minimis* levels used for Section 112 (g) are also contained in 40 CFR Part 61.