

APPENDIX B

ALPHABETICAL LISTING OF

HAZARDOUS AIR POLLUTANTS

Alphabetical Listing of Hazardous Air Pollutants

HAP Name	CAS Number*
1,1,1,2-Tetrachloroethane	79345
1,1,1,2-Trichloroethane	79005
1,1-Dimethyl hydrazine	57147
1,2,4-Trichlorobenzene	120821
1,2-Dibromo-3-chloropropane	96128
1,2-Diphenylhydrazine	122667
1,2-Epoxybutane	106887
1,2-Propylenimine (2-Methylaziridine)	75558
1,3-Butadiene	106990
1,3-Dichloropropene	542756
1,3-Propane sultone	1120714
1,4-Dichlorobenzene (p)	106467
1,4-Dioxane (1,4-Diethyleneoxide)	123911
2,2,4-Trimethylpentane	540841
2,3,7,8-Tetrachlorodibenzo-p-Dioxin	1746016
2,4,5-Trichlorophenol	95954
2,4,6-Trichlorophenol	88062
2,4-D, (salts and esters)	94757
2,4-Dinitrophenol	51285
2,4-Dinitrotoluene	121142
2,4-Toluene diamine	95807
2,4-Toluene diisocyanate	584849
2-Acetylaminofluorene	53963
2-Chloroacetophenone	532274
2-Nitropropane	79469
3,3-Dichlorobenzidene	91941
3,3-Dimethoxybenzidine	119904
3,3'-Dimethyl benzidine	119937
4,4-Methylene bis(2-chloroaniline)	101144
4,4'-Methylenedianiline	101779
4,6-Dinitro-o-cresol and salts	534521
4-Aminobiphenyl	92671
4-Nitrobiphenyl	92933
4-Nitrophenol	100027
Acetaldehyde	75070
Acetamide	60355
Acetonitrile	75058
Acetophenone	98862
Acrolein	107028
Acrylamide	79061
Acrylic acid	79107
Acrylonitrile	107131
Allyl chloride	107051
Aniline	62533
Antimony Compounds	N/A
Arsenic Compounds (inorganic including arsine)	N/A
Asbestos	1332214
Benzene (including benzene from gasoline)	71432
Benzidine	92875

Alphabetical Listing of Hazardous Air Pollutants (Continued)

HAP Name	CAS Number*
Benzotrichloride	98077
Benzyl chloride	100447
Beryllium Compounds	N/A
Beta-propiolactone	57578
Biphenyl	92524
Bis(2-ethylhexyl)phthalate (DEHP)	117817
Bis(chloromethyl) ether	542881
Bromoform	75252
Cadmium Compounds	N/A
Calcium cyanamide	156627
Captan	133062
Carbaryl	63252
Carbon disulfide	75150
Carbon tetrachloride	56235
Carbonyl sulfide	463581
Catechol	120809
Chloramben	133904
Chlordane	57749
Chlorine	7782505
Chloroacetic acid	79118
Chlorobenzene	108907
Chlorobenzilate	510156
Chloroform	67663
Chloromethyl methyl ether	107302
Chloroprene	126998
Chromium Compounds	N/A
Cobalt Compounds	N/A
Coke Oven Emissions	N/A
Cresols/Cresylic acid (isomers and mixture)	1319773
Cumene	98828
Cyanide Compounds	N/A
DDE (1,1-dichloro-2,2-bis(p-chlorophenyl) ethylene)	72559
Diazomethane	334883
Dibenzofurans	132649
Dibutyl phthalate	84742
Dichloroethyl ether (Bis[2-chloroethyl]ether)	111444
Dichlorvos	62737
Diethanolamine	111422
Diethyl sulfate	64675
Dimethyl formamide	68122
Dimethyl phthalate	131113
Dimethyl sulfate	77781
Dimethyl aminoazobenzene	60117
Dimethyl carbamoyl chloride	79447
Epichlorohydrin (1-Chloro-2,3-epoxypropane)	106898
Ethyl acrylate	140885
Ethyl carbamate (Urethane)	51796
Ethyl Chloride (Chloroethane)	75003
Ethyl benzene	100414

Alphabetical Listing of Hazardous Air Pollutants (Continued)

HAP Name	CAS Number*
Ethylene dibromide (Dibromoethane)	106934
Ethylene dichloride (1,2-Dichloroethane)	107062
Ethylene glycol	107211
Ethylene oxide	75218
Ethylene thiourea	96457
Ethylene imine (Aziridine)	151564
Ethylidene dichloride (1,1-Dichloroethane)	75343
Fine Mineral Fibers	N/A
Formaldehyde	50000
Glycol ethers	N/A
Heptachlor	76448
Hexachlorobenzene	118741
Hexachlorobutadiene	87683
Hexachlorocyclopentadiene	77474
Hexachloroethane	67721
Hexamethylene-1,6-diisocyanate	822060
Hexamethylphosphoramide	680319
Hexane	110543
Hydrazine	302012
Hydrochloric acid	7647010
Hydrogen fluoride (Hydrofluoric acid)	7664393
Hydroquinone	123319
Isophorone	78591
Lead Compounds	N/A
Lindane (all isomers)	58899
Maleic anhydride	108316
Manganese Compounds	N/A
m-Cresol	108394
Mercury Compounds	N/A
Methanol	67561
Methoxychlor	72435
Methyl bromide (Bromomethane)	74839
Methyl chloride (Chloromethane)	74873
Methyl chloroform (1,1,1-Trichloroethane)	71556
Methyl ethyl ketone (2-Butanone)	78933
Methyl iodide (Iodomethane)	74884
Methyl isobutyl ketone (Hexone)	108101
Methyl isocyanate	624839
Methyl methacrylate	80626
Methyl tert-butyl ether	1634044
Methylene chloride (Dichloromethane)	75092
Methylene diphenyl diisocyanate (MDI)	101688
Methylhydrazine	60344
m-Xylenes	108383
N,N-diethyl aniline (N,N-Dimethylaniline)	121697
Naphthalene	91203
Nickel Compounds	N/A
Nitrobenzene	98953
N-Nitrosodimethylamine	62759

Alphabetical Listing of Hazardous Air Pollutants (Continued)

HAP Name	CAS Number*
N-Nitrosomorpholine	59892
N-Nitroso-N-methylurea	684935
o-Anisidine	90040
o-Cresol	95487
o-Toluidine	95534
o-Xylenes	95476
Parathion	56382
p-Cresol	106445
Pentachloronitrobenzene (Quintobenzene)	82688
Pentachlorophenol	87865
Phenol	108952
Phosgene	75445
Phosphine	7803512
Phosphorous Compounds	N/A
Phthalic anhydride	85449
Polychlorinated biphenyls (Aroclors)	1336363
Polycyclic Organic Matter	N/A
p-Phenylenediamine	106503
Propionaldehyde	123386
Propoxur (Baygon)	114261
Propylene dichloride (1,2-Dichloropropane)	78875
Propylene oxide	75569
p-Xylenes	106423
Quinoline	91225
Quinone	106514
Radionuclides (including radon)	N/A
Selenium Compounds	N/A
Styrene	100425
Styrene oxide	96093
Tetrachloroethylene (Perchloroethylene)	127184
Titanium tetrachloride	7550450
Toluene	108883
Toxaphene (chlorinated camphene)	8001352
Trichloroethylene	79016
Triethylamine	121448
Trifluralin	1582098
Vinyl acetate	108054
Vinyl bromide	593602
Vinyl chloride	75014
Vinylidene chloride (1,1-Dichloroethylene)	75354
Xylenes (isomers and mixture)	1330207

*N/A: No CAS number for metals, metal compounds, and mixtures.

APPENDIX C
HAZARDOUS AIR POLLUTANTS
SYNONYM LIST

Hazardous Air Pollutants Synonym List

CAS Num	HAP Name	Synonyms
79345	1,1,2,2-Tetrachloroethane	Tetrachloroethane
79005	1,1,2-Trichloroethane	Vinyl Trichloride; 1,2,2-Trichloroethane
57147	1,1-Dimethylhydrazine	N,N-Dimethylhydrazine
120821	1,2,4-Trichlorobenzene	1,2,4-Trichlorobenzol
96128	1,2-Dibromo-3-chloropropane	3-Chloro-1,2-dibromopropane
122667	1,2-Diphenylhydrazine	Hydrazobenzene
106887	1,2-Epoxybutane	1,2-Butylene Oxide; 1,2-Butene oxide
75558	1,2-Propylenimine	2-Methylaziridine; Methylethylenimine
106990	1,3-Butadiene	Butadiene
542756	1,3-Dichloropropene	Isomer Mixture includes: Cis-1,3-Dichloropropene; Trans-1,3-Dichloropropene
1120714	1,3-Propane sultone	1,2-Oxathiolane 2,2-dioxide
106467	1,4-Dichlorobenzene(p)	p-Dichlorobenzene; para-Dichlorobenzene
123911	1,4-Dioxane	1,4-Diethyleneoxide
540841	2,2,4-Trimethylpentane	Isooctane
1746016	2,3,7,8-Tetrachlorodibenzo-p-dioxin	TCDD; 2,3,7,8-TCDD
95954	2,4,5-Trichlorophenol	Dowicide 2; Dowicide B
88062	2,4,6-Trichlorophenol	Dowicide 2S; Phenachlor
94757	2,4-D, (salts and esters)	2,4-D (2,4-Dichlorophenoxyacetic Acid)(including salts and esters)
51285	2,4-Dinitrophenol	Aldifen; 2,4-DNP
121142	2,4-Dinitrotoluene	DNT; 1-Methyl-2,4-dinitrobenzene
95807	2,4-Toluene diamine	Toluene-2,4-diamine; TDA; 2,4-Diaminotoluene
584849	2,4-Toluene diisocyanate	2,4-Diisocyanatotoluene; Toluene 2,4-Diisocyanate; TDI
53963	2-Acetylaminofluorene	2-Acetamidofluorene
532274	2-Chloroacetophenone	2-Chloro-1-phenylethanone
79469	2-Nitropropane	2-NP; Dimethylnitromethane
91941	3,3-Dichlorobenzidine	4,4-Diamino-3,3-dichlorobiphenyl
119904	3,3-Dimethoxybenzidine	o,o-Diansidine
119937	3,3'-Dimethylbenzidine	o-Tolidine
101144	4,4-Methylenebis(2-chloroaniline)	4,4'-Methylenebis[2-chlorobenzenamine]
101779	4,4'-Methylenedianiline	4-(4-Aminobenzyl)aniline; MDA
534521	4,6-Dinitro-o-cresol (and salts)	
92671	4-Aminobiphenyl	p-Aminodiphenyl; p-Phenylaniline
92933	4-Nitrobiphenyl	p-Nitrobiphenyl
100027	4-Nitrophenol	p-Nitrophenol, 4-Hydroxynitrobenzene,
75070	Acetaldehyde	Ethanal; Acetic Aldehyde
60355	Acetamide	Acetic acid amide
75058	Acetonitrile	Methyl cyanide; Cyanomethane
98862	Acetophenone	1-Phenylethanone
107028	Acrolein	2-Propenal; Acrylic aldehyde; Acrylaldehyde
79061	Acrylamide	Propenamamide; Vinyl amide
79107	Acrylic acid	2-Propenoic acid; Propene acid
107131	Acrylonitrile	2-Propenenitrile; Vinyl cyanide
107051	Allyl chloride	3-Chloro-1-propene
62533	Aniline	Benzenamine
N/A	Antimony Compounds	
N/A	Arsenic Compounds(inorganic including arsine)	
1332214	Asbestos	

Hazardous Air Pollutants Synonym List (Continued)

CAS Num	HAP Name	Synonyms
71432	Benzene (including benzene from gasoline)	Benzol; including benzene from gasoline
92875	Benzidine	[1,1'-Biphenyl]-4,4'-diamine
98077	Benzotrichloride	Trichloromethylbenzene; Trichlorotoluene
100447	Benzyl chloride	Chloromethylbenzene; Chlorotoluene
N/A	Beryllium Compounds	
57578	beta-Propiolactone	2-Oxetanone
92524	Biphenyl	Phenyl benzene
117817	Bis(2-ethylhexyl)phthalate (DEHP)	DEHP; Di(2-EthylHexyl) Phthalate <i>DOP</i>
542881	Bis(chloromethyl) ether	Oxybis(chloromethane); Bis-CME
75252	Bromoform	Tribromomethane
N/A	Cadmium Compounds	
156627	Calcium cyanamide	Cyanogas
133062	Captan	N-(trichloromethylthio)-4-cyclohexene-1,2-dicarboximide; Orthocide
63252	Carbaryl	1-Naphthalenol methylcarbamate
75150	Carbon disulfide	Carbon bisulfide
56235	Carbon tetrachloride	Tetrachloromethane
463581	Carbonyl sulfide	Carbon oxysulfide
120809	Catechol	1,2-Benzenediol
133904	Chloramben	3-Amino-2,5-dichlorobenzoic acid
57749	Chlordane	Dichlorodene; Dowchlor; Octachlor
7782505	Chlorine	
79118	Chloroacetic acid	Chloroethanoic acid
108907	Chlorobenzene	Monochlorobenzene; Benzene chloride
510156	Chlorobenzilate	4-Chloro-a-(4-chlorophenyl)-a-hydroxybenzeneacetic acid
67663	Chloroform	Trichloromethane
107302	Chloromethyl methyl ether	Chloromethoxymethane
126998	Chloroprene	2-Chloro-1,3-butadiene
N/A	Chromium Compounds	
N/A	Cobalt Compounds	
N/A	Coke Oven Emissions	
1319773	Cresol/Cresylic acid (mixed isomers)	Cresols; Cresylol; Toluenol
98828	Cumene	Isopropyl Benzene
N/A	Cyanide Compounds	Isopropyl Cyanide; Isobutyronitrile; Isopropylnitrile
3547044	DDE (1,1-dichloro-2,2-bis(p-chlorophenyl) ethylene)	DDE
334883	Diazomethane	Azimethylene
132649	Dibenzofurans	Furans
84742	Dibutyl phthalate	Di-n-butylphthalate
111444	Dichloroethyl ether (Bis(2-chloroethyl)ether)	Bis(2-chloroethyl)ether
62737	Dichlorvos	Phosphoric acid 2,2-dichloroethyl dimethyl ester
111422	Diethanolamine	2,2'-Iminobisethanol
64675	Diethyl sulfate	Sulfuric acid diethyl ester
60117	Dimethyl aminoazobenzene	4-Dimethylaminoazobenzene
79447	Dimethyl carbamoyl chloride	Dimethyl carbamic acid
68122	Dimethyl formamide	N,N-Dimethylformamide
131113	Dimethyl phthalate	1,2-Benzenedicarboxylic acid dimethyl ester
77781	Dimethyl sulfate	Sulfuric acid dimethyl ester
106898	Epichlorohydrin	1-Chloro-2,3-epoxypropane

Hazardous Air Pollutants Synonym List (Continued)

CAS Num	HAP Name	Synonyms
140885	Ethyl acrylate	2-Propenoic acid ethyl ester
100414	Ethylbenzene	Ethylbenzol; Phenylethane
51796	Ethyl carbamate (Urethane)	Urethane; Chloroethane
75003	Ethyl Chloride (Chloroethane)	Chloroethane
106934	Ethylene dibromide (Dibromoethane)	Dibromoethane; 1,2-Dibromoethane
107062	Ethylene dichloride (1,2-Dichloroethane)	1,2-Dichloroethane
107211	Ethylene glycol	1,2-Ethanediol
151564	Ethylene imine (Aziridine)	Aziridine
75218	Ethylene oxide	Oxirane
96457	Ethylene thiourea	2-Mercaptoimidazoline
75343	Ethylidene dichloride (1,1-Dichloroethane)	1,1-Dichloroethane
N/A	Fine mineral fibers	
50000	Formaldehyde	Methanal
N/A	Glycol ethers	Glycol ethers (and their acetates)
76448	Heptachlor	3-Chlorochlordene; Heptachlorane
118741	Hexachlorobenzene	Perchlorobenzene; HCB
87683	Hexachlorobutadiene	Hexachloro-1,3-Butadiene
77474	Hexachlorocyclopentadiene	Hexachloro-1,3-Cyclopentadiene
67721	Hexachloroethane	Carbon hexachloride; Ethane hexachloride
822060	Hexamethylene-1,6-diisocyanate	Hexamethylene diisocyanate
680319	Hexamethylphosphoramide	Hexamethylphosphoric acid triamide
110543	Hexane	n-Hexane
302012	Hydrazine	Hydrazine anhydrous
7647010	Hydrochloric acid	Hydrogen Chloride; gas only
7664393	Hydrogen fluoride (Hydrofluoric acid)	Hydrofluoric Acid
123319	Hydroquinone	Dihydroquinone
78591	Isophorone	Isoacetophorone
N/A	Lead Compounds	
58899	Lindane (all isomers)	Hexachlorocyclohexane
108316	Maleic anhydride	2,5-Furandione
N/A	Manganese Compounds	
108394	m-cresol	Cresol/Cresylic acid (mixed isomers)
N/A	Mercury Compounds	
67561	Methanol	Methyl alcohol
72435	Methoxychlor	1,1'-(2,2,2-Trichloroethylidene)-bis[4-methoxybenzene]
74839	Methyl bromide (Bromomethane)	Bromomethane
74873	Methyl chloride (Chloromethane)	Chloromethane
71556	Methyl chloroform (1,1,1-Trichloroethane)	1,1,1-Trichloroethane
78933	Methyl ethyl ketone (2-Butanone)	MEK; 2-Butanone
74884	Methyl iodide (Iodomethane)	Iodomethane
108101	Methyl isobutyl ketone (Hexone)	MIK; Hexone
624839	Methyl isocyanate	Isocyanic acid, methyl ester
80626	Methyl methacrylate	Methyl ester methacrylic acid
1634044	Methyl tert-butyl ether	MTBE
75092	Methylene chloride (Dichloromethane)	Dichloromethane
101688	Methylene diphenyl diisocyanate (MDI)	MDI; MethyleneBis (Phenylisocyanate); Methylene Biphenyl Isocyanate
60344	Methylhydrazine	Monomethylhydrazine

Hazardous Air Pollutants Synonym List (Continued)

CAS Num	HAP Name	Synonyms
108383	m-Xylenes	1,3-Dimethyl benzene
121697	N,N-Dimethyl aniline	N,N-Dimethylbenzenamine
91203	Naphthalene	White tar; Camphor tar
N/A	Nickel Compounds	
98953	Nitrobenzene	Nitrobenzol
62759	N-Nitrosodimethylamine	N-Methyl-N-nitroso-methanamine
59892	N-Nitrosomorpholine	4-Nitrosomorpholine
684935	N-Nitroso-N-methylurea	NHU; N-nitroso-n-methylcarbamide
90040	o-Anisidine	2-Anisidine; 2-Methoxy-1-Aminobenzene
95487	o-cresol	Cresol/Cresylic acid (mixed isomers)
95534	o-Toluidine	2-Aminotoluene
95476	o-Xylenes	1,2-Dimethyl benzene
56382	Parathion	Phosphorothioic acid O,O-diethyl O-(4-nitrophenyl) ester
106445	p-cresol	Cresol/Cresylic acid (mixed isomers)
82688	Pentachloronitrobenzene (Quintobenzene)	Quintobenzene; Quintozene
87865	Pentachlorophenol	Penta; PCP
108952	Phenol	Carbolic acid
75445	Phosgene	Carbonic dichloride
7803512	Phosphine	Hydrogen phosphide
N/A	Phosphorous Compounds	
85449	Phthalic anhydride	1,3-Isobenzofurandione
1336363	Polychlorinated biphenyls (Aroclors)	Aroclors
N/A	Polycyclic Organic Matter	POM
106503	p-Phenylenediamine	1,4-Benzenediamine
123386	Propionaldehyde	Propanal
114261	Propoxur (Baygon)	2-(1-Methylethoxy)phenol methyl carbamate; Baygon
78875	Propylene dichloride (1,2-Dichloropropane)	1,2-Dichloropropane
75569	Propylene oxide	Methyloxirane
106423	p-Xylenes	1,4-Dimethyl benzene
91225	Quinoline	Leucoline; chinoleine
106514	Quinone	p-Benzoquinone; 2,5-Cyclohexadiene-1,4-dione
N/A	Radionuclides (including radon)	
N/A	Selenium Compounds	
100425	Styrene	Ethenylbenzene, Cinnamene, Phenylethylene, Vinyl benzene, Vinylbenzol
96093	Styrene oxide	Epoxy styrene
127184	Tetrachloroethylene (Perchloroethylene)	Perchloroethylene; Perc
7550450	Titanium tetrachloride	Titanium chloride
108883	Toluene	Methylbenzene
8001352	Toxaphene (chlorinated camphene)	Chlorinated camphene; camphechlor
79016	Trichloroethylene	Trichloroethene; TCE
121448	Triethylamine	N,N-Diethylethanamine
1582098	Trifluralin	2,6-Dinitro-N,N-dipropyl-4-(trifluoromethyl)benzenamine
108054	Vinyl acetate	Acetic acid ethenyl ester; acetic acid vinyl ester
593602	Vinyl bromide	Bromoethene; Bromoethylene
75014	Vinyl chloride	Chloroethylene
75354	Vinylidene chloride (1,1-Dichloroethylene)	1,1-Dichloroethylene; 1,1-Dichloroethene
1330207	Xylenes (mixed isomers)	Dimethyl benzenes