**Section 232.APPENDIX A List of Toxic Air Contaminants**

|  |  |
| --- | --- |
| Chemical Name | CAS Number |
|  |  |
| Acetaldehyde | 75-07-0\* |
| Acetamide | 60-35-5\* |
| Acetonitrile | 75-05-8\* |
| Acetophenone | 98-86-2\* |
| 2-Acetylaminofluorene | 53-96-3\* |
| Acrolein | 107-02-8\* |
| Acrylamide | 79-06-1\* |
| Acrylic acid | 79-10-7\* |
| Acrylonitrile | 107-13-1\* |
| Aldrin | 309-00-2\*\* |
| Allyl chloride | 107-05-1\* |
| 2-Aminoanthraquinone | 117-79-3 |
| 4-Aminoazobenzene | 60-09-3 |
| o-Aminoazotoluene | 93-56-3 |
| 4-Aminobiphenyl | 92-67-1\* |
| 1-Amino-2-methylanthraquinone | 82-28-0 |
| Amitrole | 61-82-5 |
| Aniline | 62-53-3\* |
| o-Anisidine | 90-04-0\* |
| o-Anisidine hydrochloride | 134-29-2 |
| Antimony | 7440-36-0 |
| Arsenic | 7440-38-2\*\* |
| Asbestos  | 1332-21-4\* |
| Azobenzene | 103-33-3 |
| Benzo(a)anthracene  | 56-55-3\*\* |
| Benzene | 71-43-2\* |
| Benzidine | 92-87-5\* |
| Benzo(a)pyrene | 50-32-8\*\* |
| Benzo(b)fluoranthene [3,4-Benzofluoranthene] | 205-99-2\*\* |
| Benzo(j)fluoranthene | 205-82-3 |
| Benzo(k)fluoranthene [11,12-Benzofluoranthene] | 207-08-9\*\* |
| 1,12-Benzoperylene | 191-24-2 |
| Benzotrichloride | 98-07-7\* |
| Benzyl chloride | 100-44-7\* |
| Benzyl violet | 1694-09-3 |
| Beryllium | 7440-41-7 |
| Beryllium oxide | 1304-56-9\* |
| Biphenyl | 92-52-4\* |
| Bis(chloromethyl)ether | 542-88-1\* |
| Boron trifluoride | 7637-07-2 |
| Bromoform | 75-25-2\* |
| 4,Bromophenyl phenyl ether | 101-55-3\*\* |
| 1,3-Butadiene | 106-99-0\* |
| Butyl benzyl phthalate | 85-68-7 |
| beta-Butyrolacetone | 3068-88-0 |
| C.I. Basic Red 9 monohydrochloride | 569-61-9 |
| Cadmium | 7440-43-9\*\* |
| Cadmium oxide | 1306-19-0\* |
| Calcium cyanamide | 156-62-7\* |
| Caprolactam | 105-60-2 |
| Captan | 133-06-2\* |
| Carbaryl | 63-25-2\* |
| Carbofuran | 1563-66-2 |
| Carbon black | 1333-86-4 |
| Carbon disulfide | 75-15-0\* |
| Carbon tetrachloride | 56-23-5++ |
| Carbonyl sulfide | 463-58-1\* |
| Carbosulfan | 55285-14-8 |
| Catechol | 120-80-9\* |
| Chloramben | 133-90-4\* |
| Chlordane | 57-74-9++ |
| Chlorinated dibenzodioxins | -- |
| Chlorinated dibenzofurans | -- |
| Chlorendic acid | 115-28-6 |
| Alpha-Chlorinated toluenes | -- |
| Chlorinated paraffins [C12, 60% chlorine] | 108171-26-2 |
| Chlorine | 7782-50-5\* |
| Chloroacetic acid | 79-11-8\* |
| 2-Chloroacetophenone | 532-27-4\* |
| Chlorobenzene | 108-90-7\* |
| Chlorobenzilate | 510-15-6\* |
| Chloroform | 67-66-3\* |
| Chloromethyl methyl ether | 107-30-2\* |
| 3,4-Chloro-2-methylpropene | 563-47-3 |
| 4-Chloro-o-phenylenediamine | 95-83-0 |
| p-Chloro-o-toluidine | 95-69-2 |
| 4-Chlorophenyl phenyl ether | 7005-72-3\*\* |
| Chloroprene | 126-99-8\* |
| Chromium | 7440-47-3\*\* |
| Chromium (VI) | 18540-29-9++ |
| Chrysene | 218-01-9\*\* |
| Coal tar (pitch) volatiles | 65996-93-2 |
| Cobalt | 7440-48-4\*\* |
| Coke Oven Emissions | --++ |
| Copper | 7440-50-8\*\* |
| p-Cresidine | 120-71-8 |
| Creosote (Coal) | 8001-58-9 |
| Cresol (mixed isomers) [Cresols/Cresylic acid isomers and mixture | 1319-77-3\* |
| o-Cresol | 95-48-7\* |
| m-Cresol | 108-39-4\* |
| p-Cresol | 106-44-5\* |
| Cumene | 98-82-8\* |
| Cyanazine | 21725-46-2 |
| Cyclohexanone | 108-94-1 |
| DDD | 72-54-8 |
| DDE | 3547-04-4\* |
| 4,4'-DDE | 72-55-9\*\* |
| DDT | 50-29-3\*\* |
| Di-n-octyl phthalate | 117-84-0\*\* |
| 2,4-Diaminoanisole | 615-05-4 |
| 2,4-Diaminoanisole sulfate | 39156-41-7 |
| 4,4'-Diaminodiphenyl ether | 101-80-4 |
| 2,4-Diaminotoluene | 95-80-7\* |
| Diazomethane | 334-88-3\* |
| Dibenzo(a,h)acridine | 226-36-8 |
| Dibenzo(a,j)acridine | 224-42-0 |
| Dibenzo(a,h)anthracene [1,2:5.6-Dibenzanthracene] | 53-70-3\*\* |
| Dibenzo(a,e)pyrene | 192-65-4 |
| Dibenzo(a,h)pyrene | 189-64-0 |
| Dibenzo(a,i)pyrene | 189-55-9 |
| Dibenzo(a,l)pyrene | 191-30-0 |
| Dibenzofurans | 132-64-9\* |
| Dibutyl phthalate | 84-74-2++ |
| 1,2-Dibromo-3-chloropropane | 96-12-8\* |
| 1,2-Dibromoethane [Ethylene dibromide] | 106-93-4\* |
| 1,4-Dichlorobenzene(p-) | 106-46-7\* |
| 3,3'-Dichlorobenzidine | 91-94-1\* |
| 3,3'-Dichlorobenzidine dihydrochloride | 612-83-9 |
| Dichloroethyl ether [Bis(2-chloroethyl)ether] | 111-44-4\* |
| 2,4-Dichlorophenoxyacetic acid [2,4-D,salts and esters] | 94-75-7\* |
| 1,2-Dichloropropane [Propylene dichloride] | 78-87-5\* |
| 1,3-Dichloropropylene [1,3-Dichloropropene] | 542-75-6\* |
| Dichlorovos  | 62-73-7\* |
| Dieldrin | 60-57-1\*\* |
| Diepoxybutane | 1464-53-5 |
| Diethanolamine | 111-42-2\* |
| N,N-Diethyl aniline [N,N-Dimethylaniline] | 121-69-7\* |
| 1,2-Diethylhydrazine | 1615-80-1 |
| Di(2-ethylhexyl) Phthalate [Bis(2-ethylhexyl) phthalate (DEHPI) | 117-81-7++ |
| Diethyl sulfate | 64-67-5\* |
| Diglycidyl resorcinol ether | 101-90-6 |
| 3,3'-Dimethoxybenzidine [Dianisidine] | 119-90-4\* |
| Dimethyl acetamide | 127-19-5 |
| Dimethyl phthalate | 131-11-3\* |
| 4-Dimethylaminoazobenzene [Dimethyl aminoazo- benzene] | 60-11-7\* |
| 3,3'-Dimethylbenzidine [o-Tolidine] | 119-93-7\* |
| Dimethylcarbamoyl chloride | 79-44-7\* |
| N,N-Dimethyl formamide | 68-12-2\* |
| 1,1-Dimethylhydrazine | 57-14-7\* |
| 1,2-Dimethylhydrazine | 540-73-8 |
| Dimethyl sulfate | 77-78-1\* |
| Dinitrocresol [4,6-Dinitro-o-cresol, and salts] | 534-52-1\* |
| 2,4-Dinitrophenol | 51-28-5\* |
| 2,4-Dinitrotoluene | 121-14-2\* |
| 1,4-Dioxane [1,4-Diethyleneoxide] | 123-91-1\* |
| 1,2-Diphenylhydrazine | 122-66-7\* |
| Disulfoton | 298-04-4 |
| Endothall | 145-73-3 |
| Endrin | 72-20-8\*\* |
| Epichlorohydrin | 106-89-8\* |
| 1,2-Epoxybutane | 106-88-7\* |
| 2-Ethoxyethanol | 110-80-5 |
| Ethyl acrylate | 140-88-5++ |
| Ethyl benzene | 100-41-4++ |
| Ethyl chloride [Chloroethane] | 75-00-3\* |
| Ethylene dichloride [1,2-Dichloroethane] | 107-06-2++ |
| Ethylene glycol | 107-21-1\* |
| Ethyleneimine [Aziridine] | 151-65-4\* |
| Ethylene oxide | 75-21-8\* |
| Ethylene thiourea | 96-45-7\* |
| Ethylidene dichloride [1,1-Dichloroethene] | 75-34-3\* |
| Etridiazole | 2593-15-9 |
| FMC-67825 | 95465-99-9 |
| Fluorine | 7782-41-4 |
| Folpet | 133-07-3 |
| Formaldehyde | 50-00-0\* |
| Furmecyclox | 60568-05-0 |
| Heptachlor | 76-44-8++ |
| Heptachlor epoxide | 1024-57-3\*\* |
| Hexachlorobenzene | 118-74-1++ |
| Hexachloro-1,3-butadiene [Hexachlorobutadiene] | 87-68-3++ |
| Hexachlorocyclopentadiene | 77-47-4\* |
| Hexachlorodibenzo-p-dioxin | 19408-74-3 |
| Hexachloroethane | 67-72-1++ |
| Hexamethylene-1,6-diisocyanate | 822-06-0\* |
| Hexamethylphosphoramide | 680-31-9\* |
| Hexane | 110-54-3\* |
| Hydrazine | 302-01-2\* |
| Hydrazine sulfate | 10034-93-2 |
| Hydrochloric acid (aerosol) | 7647-01-0\* |
| Hydrogen cyanide | 74-90-8 |
| Hydrogen fluoride [Hydrofluoric acid] | 7664-39-3\* |
| Hydroquinone | 123-31-9\* |
| Indeno(1,2,3-cd) pyrene | 193-39-5\*\* |
| Isophorone | 78-59-1\* |
| Isophorone diisocyanate | 4098-71-9 |
| Lead | 7439-92-1\*\* |
| Lindane-[Hexachlorocyclohexane-alpha]  | 319-84-6\*\* |
| Lindane-[Hexachlorocyclohexane-beta]  | 319-85-7\*\* |
| Lindane-[Hexachlorocyclohexane-gamma] [Lindane all isomers] | 58-89-9++ |
| Lindane-[Hexachlorocyclohexane-mixed isomers] | 608-73-1 |
| Linuron | 330-55-2 |
| Malathion | 121-75-5 |
| Maleic anhydride | 108-31-6\* |
| Manganese | 7439-96-5\*\* |
| Mercury | 7439-97-6\*\* |
| Methanol | 67-56-1\* |
| Methoxychlor | 72-43-5++ |
| 2-Methoxyethanol | 109-86-4 |
| 2-Methoxyethanol acetate | 110-49-6 |
| Methyl bromide [Bromomethane] | 74-83-9\* |
| Methyl chloride [Chloromethane] | 74-87-3++ |
| Methyl chloroform [1,1,1-Trichloroethane] | 71-55-6++ |
| Methyl ethyl ketone [2-Butanone] | 78-93-3\* |
| Methyl isobutyl ketone [Hexone] | 108-10-1\* |
| Methyl isocyanate | 624-83-9\* |
| Methyl methacrylate | 80-62-6\* |
| Methyl tert-butyl ether | 1634-04-4\* |
| 5-Methylchrysene | 3697-24-3 |
| 4,4'-Methylenebis(2-chloroaniline) | 101-14-4\* |
| Methylenebis(phenylisocyanate) [Methylene diphenyl diisocyanate (MDI) | 101-68-8\* |
| 4,4'-Methylenebis(N,N'-dimethyl benzenamine) | 101-61-1 |
| Methylene chloride [Dichloromethane] | 75-09-2++ |
| 4,4'-Methylenedianiline | 101-77-9\* |
| 4,4'-Methylenedianiline dihydrochloride | 13552-44-8 |
| Methyl hydrazine | 60-34-4\* |
| Methyl iodide [Iodomethane] | 74-88-4\* |
| Methyl mercaptan | 74-93-1 |
| N-Methyl-N'-nitro-N-nitrosoguanidine | 70-25-7 |
| Metolachlor | 51218-45-2 |
| Michler's Ketone | 90-94-8 |
| Mirex | 2385-85-5\*\* |
| Monoethanolamine | 141-43-5 |
| Naphthalene | 91-20-3++ |
| beta-Naphthylamide | 91-59-8 |
| Nickel | 7440-02-0\*\* |
| Nitric acid | 7697-37-2 |
| Nitrilotriacetic acid | 139-13-9 |
| Nitrobenzene | 98-95-3\* |
| 4-Nitrobiphenyl | 92-93-3\* |
| 5-Nitro-o-anisidine | 99-59-2 |
| 2-Nitropropane | 79-46-9\* |
| 4-Nitrophenol | 100-02-7\* |
| N-Nitroso-n-butyl-N-(3-carboxypropyl) amine | 38252-74-3 |
| N-Nitroso-n-butyl-N-(4-hydroxybutyl) amine | 3817-11-6 |
| N-Nitrosodi-n-butylamine | 924-16-3 |
| N-Nitrosodiethanolamine | 1116-54-7 |
| N-Nitrosodiethylamine | 55-18-5 |
| N-Nitrosodimethylamine | 62-75-9\* |
| N-Nitrosodiphenylamine | 86-30-6 |
| N-Nitrosodi-n-propylamine | 621-64-7 |
| N-Nitroso-N-ethylurea | 759-73-9 |
| 3-(N-Nitrosomethylamino) propionitrile | 60153-49-3 |
| N-Nitrosomethylethylamine | 10595-95-6 |
| N-Nitroso-N-methylurea | 684-93-5\* |
| N-Nitrosomethylvinylamine | 4549-40-0 |
| N-Nitrosomorpholine | 59-89-2\* |
| N-Nitrosonornicotine | 16543-55-8 |
| N-Nitrosopiperidine | 100-75-4 |
| N-Nitrosopyrrolidine | 930-55-2 |
| N-Nitrososarcosine | 13256-22-9 |
| Nitrofen | 11836-75-5 |
| Octachlorostyrene | 2908-74-4\*\* |
| PCDDs (Total polychlorinated dibenzodioxins) | --\*\* |
| PCDFs (Total polychlorinated dibenzofurans) | --\*\* |
| PAHs (Total polycyclic aromatic hydrocarbons) | --\*\* |
| Parathion | 56-38-2++ |
| Pentachlorobenzene | 608-93-5\*\* |
| Pentachloronitrobenzene [Quintobenzene] | 82-68-8++ |
| Pentachlorophenol | 87-86-5++ |
| Peracetic acid | 79-21-0 |
| Phenol | 108-95-2++ |
| p-Phenylenediamine | 106-50-3\* |
| Phenylhydrazine | 100-63-0 |
| Phorate | 298-02-2 |
| Phosgene | 75-44-5\* |
| Phosphine | 7803-51-2\* |
| Phosphorus | 7723-14-0\* |
| Phosphorus oxychloride | 10025-87-3 |
| Phosphorus pentachloride | 10026-13-8 |
| Photomirex | 39801-14-4\*\* |
| Phthalic anhydride | 85-44-9\* |
| Polybrominated biphenyls | -- |
| Polychlorinated biphenyls [Aroclors] | 1336-36-3++ |
| Potassium bromate | 7758-01-2 |
| Propane sultone [1,3-Propane sultone] | 1120-71-4\* |
| beta-Propiolactone | 57-57-8\* |
| Propionaldehyde | 123-38-6\* |
| Propoxur [Baygon] | 114-26-1\* |
| Propyleneimine [1,2-Propylenimine,(2-Methy aziridine)] | 75-55-8\* |
| Propylene oxide | 75-56-9\* |
| Pyrene | 129-00-0 |
| Quinoline | 91-22-5\* |
| Quinone | 106-51-4\* |
| Selenium | 7782-49-2 |
| Sodium borate | 1303-96-4 |
| Styrene | 100-42-5\* |
| Styrene oxide | 96-09-3\* |
| Sulfalate | 95-06-7 |
| Sulfuric acid (aerosol) | 7664-93-9 |
| Terbufos | 13071-79-9 |
| 1,2,3,4-Tetrachlorobenzene | 634-66-2\*\* |
| 1,2,4,5-Tetrachlorobenzene | 95-94-3\*\* |
| 1,1,2,2-Tetrachloroethane | 79-34-5\* |
| Tetrachloroethylene [Perchloroethylene] | 127-18-4++ |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin [2,3,7,8-TCDD] | 1746-01-6++ |
| 4,4'-Thiodianiline | 139-65-1 |
| Thiophenol | 108-98-5 |
| Thiourea | 62-56-6 |
| Thorium dioxide | 1314-20-1 |
| Titanium tetrachloride | 7550-45-0\* |
| Toluene | 108-88-3++ |
| Toluene-2,4-diisocyanate [2,4-Toluene diisocyanate] | 584-84-9\* |
| Toluene-2,6-diisocyanate | 91-08-7 |
| o-Toluidine | 95-53-4\* |
| o-Toluidine hydrochloride | 636-21-5 |
| p-Toluidine | 106-49-0 |
| Toxaphene | 8001-35-2++ |
| 1,2,4-Trichlorobenzene | 120-82-1\* |
| 1,1,2-Trichloroethane | 79-00-5\* |
| Trichloroethylene | 79-01-6++ |
| 2,4,5-Trichlorophenol | 95-95-4++ |
| 2,4,6-Trichlorophenol | 88-06-2++ |
| Triethylamine | 121-44-8\* |
| Trifluralin | 1582-09-8++ |
| Trimethylbenzene | 25551-13-7 |
| 1,2,4-Trimethyl benzene | 95-63-6 |
| 2,4,6-Trinitrotoluene | 118-96-7 |
| 2,2,4-Trimethylpentane | 540-84-1\* |
| Tris(2,3-dibromopropyl) phosphate | 126-72-7 |
| Trypan blue | 72-57-1 |
| Urethane [Ethyl carbamate] | 51-79-6\* |
| Vinyl acetate | 108-05-4\* |
| Vinyl bromide | 593-60-2\* |
| Vinyl chloride | 75-01-4\* |
| Vinylidene chloride [1,1-Dichloroethylene] | 75-35-4\* |
| Xylenes (isomers and mixture) | 1330-20-7\* |
| o-Xylenes | 95-47-6\* |
| m-Xylenes | 108-38-3\* |
| p-Xylenes | 106-42-3\* |

|  |  |
| --- | --- |
| Antimony compounds\* | – |
|  | Includes any unique chemical substance that contains antimony substance that contains antimony as part of that chemical's infrastructure |  |
|  |  |
| Arsenic compounds\* | –  |
|  | Includes any unique chemical substance that contains arsenic as part of that chemical's infrastructure |  |
|  |  |
| Beryllium compounds\* | –  |
|  | Includes any unique chemical substance that contains beryllium as part of that chemical's infrastructure |  |
|  |  |
| Cadmium compounds\* | – |
|  | Includes any unique chemical substance that contains cadmium as part of that chemical's infrastructure |  |
|  |  |
| Chromium compounds\* | – |
|  | Includes any unique chemical substance that contains chromium as part of that chemical's infrastructure |  |
|  |  |
| Cobalt compounds\* |  |
|  | Includes any unique chemical substance that contains cobalt as part of that chemical's infrastructure |  |
|  |  |
| Cyanide compounds\* | – |
|  | x(pos) CN(neg) where X = H(pos) or any other group where a formal dissociation can be made. For example, KCN or Ca(CN)2 |  |
|  |  |
| Glycol ethers\* | -- |
|  | Includes any unique chemical substance that contains glycol as part of that chemical's infrastructure. Includes mono- and di- ethers of ethylene glycol, diethylene glycol, and triethylene glycol R(OCH2CH2)n-OR' where |  |
|  | n=1, 2, or 3 |  |
|  | R = alkyl or aryl groups |  |
|  | R' = R, H, or groups which, when removed, yield glycol ethers with the structure: R(OCH2CH2)n-OH. |  |
|  | Polymers are excluded from the glycol category. |  |
|  |  |
| Fine mineral fibers\* | – |
|  | Includes mineral fiber emissions from facilities manufacturing or processing glass, rock, or slag fibers (or other mineral derived fibers) having the average diameter of 1 micrometer or less. |  |
|  |  |
| Lead compounds\* | -- |
|  | Includes any unique chemical substance that contains lead as part of that chemical's infrastructure |  |
|  |  |
| Manganese compounds\* | – ++ |
|  | Includes any unique chemical substance that contains manganese as part of that chemical's infrastructure |  |
|  |  |
| Mercury compounds\* | – |
|  | Includes any unique chemical substance that contains mercury as part of that chemical's infrastructure |  |
|  |  |
| Nickel compounds\* | – ++ |
|  | Includes any unique chemical substance that contains nickel as part of that chemical's infrastructure |  |
|  |  |
| Polycyclic Organic Matter (POM)\* | – ++ |
|  | Includes organic compounds having more than one benzene ring and a boiling point equal to or greater than 100 degrees Celsius (212 degrees Farenheit). |  |
|  |  |
| Radionuclides (including radon)\* | – |
|  | A type of atom which spontaneously undergoes radioactive decay. |  |
|  |  |
| Selenium Compounds\* | – |
|  | Includes any unique chemical substance that contains selenium as part of that chemical's infrastructure. |  |
|  |  |
| \* Indicates presence on HAP List. |  |
| \*\*Indicates presence on Great Waters or Great Lakes List. |  |
| ++=Indicates presence on HAP and Great Waters or Great Lakes Lists. |  |

(Source: Amended at 21 Ill. Reg. 6237, effective May 12, 1997)