

## Appendices to Application Instructions

### Appendix A: Hazardous Air Pollutants

**Table A-1**  
**Hazardous Air Pollutants - by alpha**

| CAS Number | Chemical Name                        | VOC/PM              | CAS Number | Chemical Name  | VOC/PM           |
|------------|--------------------------------------|---------------------|------------|--|------------------|
| 75-07-0    | Acetaldehyde                         | VOC                 | 0          | Cyanide Compounds  | PM <sup>2</sup>  |
| 60-35-5    | Acetamide                            | VOC                 | 94-75-7    | 2,4-D (2,4-Dichlorophenoxyacetic Acid) (including salts and esters)  | VOC <sup>1</sup> |
| 75-05-8    | Acetonitrile                         | VOC                 | 72-55-9    | DDE (1,1-dichloro-2,2-bis(p-chlorophenyl) ethylene)  | VOC <sup>1</sup> |
| 98-86-2    | Acetophenone                         | VOC                 | 117-81-7   | Di(2-ethylhexyl) phthalate (DEHP)  | VOC <sup>1</sup> |
| 53-96-3    | 2-Acetylaminofluorene                | VOC <sup>1</sup>    | 334-88-3   | Diazomethane   | VOC              |
| 107-02-8   | Acrolein                             | VOC                 | 132-64-9   | Dibenzofuran   | VOC <sup>1</sup> |
| 79-06-1    | Acrylamide                           | VOC                 | 96-12-8    | 1,2-Dibromo-3-chloropropane  | VOC              |
| 79-10-7    | Acrylic acid                         | VOC                 | 84-74-2    | Dibutyl phthalate  | VOC <sup>1</sup> |
| 107-13-1   | Acrylonitrile                        | VOC                 | 106-46-7   | 1,4-Dichlorobenzene  | VOC              |
| 107-05-1   | Allyl chloride                       | VOC                 | 91-94-1    | 3,3'-Dichlorobenzidine   | VOC <sup>1</sup> |
| 92-67-1    | 4-Aminobiphenyl                      | VOC <sup>1</sup>    | 111-44-4   | Dichloroethyl ether (Bis(2-chloroethyl) ether)   | VOC              |
| 62-53-3    | Aniline                              | VOC                 | 542-75-6   | 1,3-Dichloropropene  | VOC              |
| 90-04-0    | o-Anisidine                          | VOC                 | 62-73-7    | Dichlorvos   | VOC              |
| 0          | Antimony Compounds                   | PM                  | 111-42-2   | Diethanolamine   | VOC              |
| 0          | Arsenic Compounds                    | PM <sup>2</sup>     | 64-67-5    | Diethyl sulfate  | VOC              |
| 1332-21-4  | Asbestos (friable)                   | PM                  | 119-90-4   | 3,3'-Dimethoxybenzidine  | VOC <sup>1</sup> |
| 71-43-2    | Benzene                              | VOC                 | 60-11-7    | 4-Dimethylaminoazobenzene  | VOC <sup>1</sup> |
| 92-87-5    | Benzidine                            | VOC <sup>1</sup>    | 121-69-7   | N,N-Dimethylaniline  | VOC              |
| 98-07-7    | Benzotrichloride                     | VOC                 | 119-93-7   | 3,3'-Dimethylbenzidine   | VOC <sup>1</sup> |
| 100-44-7   | Benzyl chloride                      | VOC                 | 79-44-7    | Dimethylcarbamoyl chloride   | VOC              |
| 0          | Beryllium Compounds                  | PM                  | 68-12-2    | Dimethylformamide  | VOC              |
| 92-52-4    | Biphenyl                             | VOC                 | 57-14-7    | 1,1-Dimethylhydrazine  | VOC              |
| 542-88-1   | Bis(chloromethyl) ether              | VOC                 | 131-11-3   | Dimethyl phthalate   | VOC              |
| 75-25-2    | Bromoform                            | VOC                 | 77-78-1    | Dimethyl sulfate   | VOC              |
| 106-94-5   | 1-Bromopropane                       | VOC                 | 534-52-1   | 4,6-Dinitro-o-cresol (including salts)   | VOC <sup>1</sup> |
| 106-99-0   | 1,3-Butadiene                        | VOC                 | 51-28-5    | 2,4-Dinitrophenol  | VOC <sup>1</sup> |
| 0          | Cadmium Compounds                    | PM                  | 121-14-2   | 2,4-Dinitrotoluene   | VOC              |
| 156-62-7   | Calcium cyanamide                    | PM                  | 123-91-1   | 1,4-Dioxane (1,4-Diethylene oxide)   | VOC              |
| 133-06-2   | Captan                               | VOC <sup>1</sup>    | 122-66-7   | 1,2-Diphenylhydrazine  | VOC              |
| 63-25-2    | Carbaryl                             | VOC <sup>1</sup>    | 106-89-8   | Epichlorohydrin (1-Chloro-2,3-epoxypropane)  | VOC              |
| 75-15-0    | Carbon disulfide                     | VOC                 | 106-88-7   | 1,2-Epoxybutane (1,2-Butylene oxide)   | VOC              |
| 56-23-5    | Carbon tetrachloride                 | VOC                 | 140-88-5   | Ethyl acrylate   | VOC              |
| 463-58-1   | Carbonyl sulfide                     | VOC                 | 100-41-4   | Ethylbenzene   | VOC              |
| 120-80-9   | Catechol                             | VOC                 | 75-00-3    | Ethyl chloride (Chloroethane)  | VOC              |
| 133-90-4   | Chloramben                           | VOC <sup>1</sup>    | 106-93-4   | Ethylene dibromide (Dibromoethane)   | VOC              |
| 57-74-9    | Chlordane                            | VOC <sup>1</sup>    | 107-06-2   | Ethylene dichloride (1,2-Dichloroethane)   | VOC              |
| 7782-50-5  | Chlorine                             | VOC                 | 107-21-1   | Ethylene glycol  | VOC              |
| 79-11-8    | Chloroacetic acid                    | VOC                 | 151-56-4   | Ethyleneimine (Aziridine)  | VOC              |
| 532-27-4   | 2-Chloroacetophenone                 | VOC                 | 75-21-8    | Ethylene oxide   | VOC              |
| 108-90-7   | Chlorobenzene                        | VOC                 | 96-45-7    | Ethylene thiourea  | VOC              |
| 510-15-6   | Chlorobenzilate                      | VOC <sup>1</sup>    | 75-34-3    | Ethylidene dichloride (1,1-Dichloroethane)   | VOC              |
| 67-66-3    | Chloroform                           | VOC                 | 0          | Fine Mineral Fibers  | PM               |
| 107-30-2   | Chloromethyl methyl ether            | VOC                 | 50-00-0    | Formaldehyde   | VOC              |
| 126-99-8   | Chloroprene (2-chloro-1,3-butadiene) | VOC                 | 0          | Glycol Ethers, except CAS #111-76-2, ethylene glycol mono-butyl ether, also known as EGBE or 2-Butoxyethanol | VOC              |
| 0          | Chromium Compounds                   | PM                  | 76-44-8    | Heptachlor   | VOC              |
| 0          | Cobalt Compounds                     | PM                  |            |  |                  |
| 0          | Coke Oven Emissions                  | VOC/PM <sub>3</sub> |            |  |                  |
| 1319-77-3  | Cresol/Cresylic acid (mixed isomers) | VOC                 |            |  |                  |
| 108-39-4   | m-Cresol                             | VOC                 |            |  |                  |
| 95-48-7    | o-Cresol                             | VOC                 |            |  |                  |
| 106-44-5   | p-Cresol                             | VOC                 |            |  |                  |
| 98-82-8    | Cumene                               | VOC                 |            |  |                  |

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| CAS Number | Chemical Name                               | VOC/PM           |
|------------|---|------------------|
| 118-74-1   | Hexachlorobenzene                           | VOC              |
| 87-68-3    | Hexachloro-1,3-butadiene                    | VOC              |
| 77-47-4    | Hexachlorocyclopentadiene                   | VOC              |
| 67-72-1    | Hexachloroethane                            | VOC              |
| 822-06-0   | Hexamethylene-1,6-diisocyanate              | VOC              |
| 680-31-9   | Hexamethylphosphoramide                     | VOC              |
| 110-54-3   | Hexane                                      | VOC              |
| 302-01-2   | Hydrazine                                   |                  |
| 7647-01-0  | Hydrochloric acid (HCl)                     | PM <sup>5</sup>  |
| 7664-39-3  | Hydrogen fluoride (HF)                      | PM <sup>5</sup>  |
| 123-31-9   | Hydroquinone                                | VOC <sup>1</sup> |
| 78-59-1    | Isophorone                                  | VOC              |
| 0          | Lead Compounds                              | PM               |
| 58-89-9    | Lindane (1,2,3,4,5,6-Hexachlorocyclohexane) | VOC <sup>1</sup> |
| 108-31-6   | Maleic anhydride                            | VOC <sup>1</sup> |
| 0          | Manganese Compounds                         | PM               |
| 0          | Mercury Compounds                           | PM <sup>2</sup>  |
| 67-56-1    | Methanol                                    | VOC              |
| 72-43-5    | Methoxychlor                                | VOC <sup>1</sup> |
| 74-83-9    | Methyl bromide (Bromomethane)               | VOC              |
| 74-87-3    | Methyl chloride (Chloromethane)             | VOC              |
| 71-55-6    | Methyl chloroform (1,1,1-Trichloroethane)   | NR <sup>4</sup>  |
| 60-34-4    | Methylhydrazine                             | VOC              |
| 74-88-4    | Methyl iodide (Iodomethane)                 | VOC              |
| 108-10-1   | Methyl isobutyl ketone (MIBK) (Hexone)      | VOC              |
| 624-83-9   | Methyl isocyanate                           | VOC              |
| 80-62-6    | Methyl methacrylate                         | VOC              |
| 1634-04-4  | Methyl tert-butyl ether (MTBE)              | VOC              |
| 101-14-4   | 4,4'-Methylenebis(2-chloroaniline)          | VOC <sup>1</sup> |
| 75-09-2    | Methylene chloride (Dichloromethane)        | NR <sup>4</sup>  |
| 101-77-9   | 4,4'-Methylenedianiline                     | VOC <sup>1</sup> |
| 101-68-8   | 4,4'-Methylenediphenyl diisocyanate (MDI)   | VOC              |
| 91-20-3    | Naphthalene                                 | VOC              |
| 0          | Nickel Compounds                            | PM               |
| 98-95-3    | Nitrobenzene                                | VOC              |
| 92-93-3    | 4-Nitrobiphenyl                             | VOC <sup>1</sup> |
| 100-02-7   | 4-Nitrophenol                               | VOC <sup>1</sup> |
| 79-46-9    | 2-Nitropropane                              | VOC              |
| 62-75-9    | N-Nitrosodimethylamine                      | VOC              |
| 684-93-5   | N-Nitroso-N-methylurea                      | VOC              |
| 59-89-2    | N-Nitrosomorpholine                         | VOC              |
| 56-38-2    | Parathion                                   | VOC <sup>1</sup> |
| 82-68-8    | Pentachloronitrobenzene (Quintobenzene)     | VOC              |
| 87-86-5    | Pentachlorophenol                           | VOC <sup>1</sup> |
| 108-95-2   | Phenol                                      | VOC              |
| 106-50-3   | p-Phenylenediamine                          | VOC <sup>1</sup> |

| CAS Number | Chemical Name                               | VOC/PM           |
|------------|---|------------------|
| 75-44-5    | Phosgene                                    | VOC              |
| 7803-51-2  | Phosphine                                   |                  |
| 7723-14-0  | Phosphorus (yellow or white)                | PM <sup>2</sup>  |
| 85-44-9    | Phthalic anhydride                          | VOC <sup>1</sup> |
| 1336-36-3  | Polychlorinated biphenyls (PCBs) (Aroclors) | VOC <sup>1</sup> |
| 0          | Polycyclic Organic Matter                   | VOC <sup>1</sup> |
| 1120-71-4  | 1,3-Propane sultone                         | VOC              |
| 57-57-8    | beta-Propiolactone                          | VOC              |
| 123-38-6   | Propionaldehyde                             | VOC              |
| 114-26-1   | Propoxur (Baygon)                           | VOC <sup>1</sup> |
| 78-87-5    | Propylene dichloride (1,2-Dichloropropane)  | VOC              |
| 75-56-9    | Propylene oxide                             | VOC              |
| 75-55-8    | 1,2-Propylenimine (2-Methylaziridine)       | VOC              |
| 91-22-5    | Quinoline                                   | VOC              |
| 106-51-4   | Quinone (p-Benzoquinone)                    | VOC              |
| 0          | Radionuclides (including radon)             | PM <sup>2</sup>  |
| 0          | Selenium Compounds                          | PM               |
| 100-42-5   | Styrene                                     | VOC              |
| 96-09-3    | Styrene oxide                               | VOC              |
| 1746-01-6  | 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)  | VOC <sup>1</sup> |
| 79-34-5    | 1,1,2,2-Tetrachloroethane                   | VOC              |
| 127-18-4   | Tetrachloroethylene (Perchloroethylene)     | NR <sup>4</sup>  |
| 7550-45-0  | Titanium tetrachloride                      |                  |
| 108-88-3   | Toluene                                     | VOC              |
| 95-80-7    | 2,4-Toluenediamine (2,4-Diaminotoluene)     | VOC <sup>1</sup> |
| 584-84-9   | 2,4-Toluene diisocyanate                    | VOC              |
| 95-53-4    | o-Toluidine                                 | VOC              |
| 8001-35-2  | Toxaphene (chlorinated camphene)            | VOC <sup>1</sup> |
| 120-82-1   | 1,2,4-Trichlorobenzene                      | VOC              |
| 79-00-5    | 1,1,2-Trichloroethane                       | VOC              |
| 79-01-6    | Trichloroethylene                           | VOC              |
| 95-95-4    | 2,4,5-Trichlorophenol                       | VOC              |
| 88-06-2    | 2,4,6-Trichlorophenol                       | VOC              |
| 121-44-8   | Triethylamine                               | VOC              |
| 1582-09-8  | Trifluralin                                 | VOC <sup>1</sup> |
| 540-84-1   | 2,2,4-Trimethylpentane                      | VOC              |
| 51-79-6    | Urethane (Ethyl carbamate)                  | VOC              |
| 108-05-4   | Vinyl acetate                               | VOC              |
| 593-60-2   | Vinyl bromide (Bromoethene)                 | VOC              |
| 75-01-4    | Vinyl chloride (Chloroethene)               | VOC              |
| 75-35-4    | Vinylidene chloride (1,1-dichloroethylene)  | VOC              |
| 1330-20-7  | Xylenes (mixed isomers)                     | VOC              |
| 108-38-3   | m-Xylene                                    | VOC              |
| 95-47-6    | o-Xylene                                    | VOC              |
| 106-42-3   | p-Xylene                                    | VOC              |

Notes:

- 1 This compound is defined as a VOC (40 CFR 51.100), but has a low vapor pressure. Emissions may be measured as either VOC or PM, depending on the process generating the emissions, and the test method used to measure the emissions.
- 2 Compounds in this class may be emitted as PM or as inorganic vapors.
- 3 Compounds in this class may be emitted as PM or as VOC.
- 4 Not Reactive-these compounds have been determined to have negligible photochemical reactivity, and are not defined as VOC (40 CFR 51.100)
- 5 DNR determined in May, 2016 that HCl and HF be considered as PM for Title V emissions fee purposes.

**Table A-2**  
**Hazardous Air Pollutants - by CAS Number**

| CAS Number | Chemical Name  | VOC/PM              | CAS Number | Chemical Name   | VOC/PM           |
|------------|--|---------------------|------------|---|------------------|
| 0          | Antimony Compounds   | PM                  | 75-34-3    | Ethylidene dichloride (1,1-Dichloroethane)                          | VOC              |
| 0          | Arsenic Compounds  | PM <sup>2</sup>     | 75-35-4    | Vinylidene chloride (1,1-dichloroethylene)                          | VOC              |
| 0          | Beryllium Compounds  | PM                  | 75-44-5    | Phosgene  | VOC              |
| 0          | Cadmium Compounds  | PM                  | 75-55-8    | 1,2-Propylenimine (2-Methylaziridine)                               | VOC              |
| 0          | Chromium Compounds   | PM                  | 75-56-9    | Propylene oxide   | VOC              |
| 0          | Cobalt Compounds   | PM                  | 76-44-8    | Heptachlor  | VOC              |
| 0          | Coke Oven Emissions  | VOC/PM <sup>3</sup> | 77-47-4    | Hexachlorocyclopentadiene   | VOC              |
| 0          | Cyanide Compounds  | PM <sup>2</sup>     | 77-78-1    | Dimethyl sulfate  | VOC              |
| 0          | Fine Mineral Fibers  | PM                  | 78-59-1    | Isophorone  | VOC              |
| 0          | Glycol Ethers, except CAS #111-76-2, ethylene glycol mono-butyl ether, also known as EGBE or 2-Butoxyethanol | VOC                 | 78-87-5    | Propylene dichloride (1,2-Dichloropropane)                          | VOC              |
| 0          | Lead Compounds   | PM                  | 79-00-5    | 1,1,2-Trichloroethane   | VOC              |
| 0          | Manganese Compounds  | PM                  | 79-01-6    | Trichloroethylene   | VOC              |
| 0          | Mercury Compounds  | PM <sup>2</sup>     | 79-06-1    | Acrylamide  | VOC              |
| 0          | Nickel Compounds   | PM                  | 79-10-7    | Acrylic acid  | VOC              |
| 0          | Polycyclic Organic Matter  | VOC <sup>1</sup>    | 79-11-8    | Chloroacetic acid   | VOC              |
| 0          | Radionuclides (including radon)  | PM <sup>2</sup>     | 79-34-5    | 1,1,2,2-Tetrachloroethane   | VOC              |
| 0          | Selenium Compounds   | PM                  | 79-44-7    | Dimethylcarbamoyl chloride  | VOC              |
| 50-00-0    | Formaldehyde   | VOC                 | 79-46-9    | 2-Nitropropane  | VOC              |
| 51-28-5    | 2,4-Dinitrophenol  | VOC <sup>1</sup>    | 80-62-6    | Methyl methacrylate   | VOC              |
| 51-79-6    | Urethane (Ethyl carbamate)   | VOC                 | 82-68-8    | Pentachloronitrobenzene (Quintobenzene)                             | VOC              |
| 53-96-3    | 2-Acetylaminofluorene  | VOC <sup>1</sup>    | 84-74-2    | Dibutyl phthalate   | VOC <sup>1</sup> |
| 56-23-5    | Carbon tetrachloride   | VOC                 | 85-44-9    | Phthalic anhydride  | VOC <sup>1</sup> |
| 56-38-2    | Parathion  | VOC <sup>1</sup>    | 87-68-3    | Hexachloro-1,3-butadiene  | VOC              |
| 57-14-7    | 1,1-Dimethylhydrazine  | VOC                 | 87-86-5    | Pentachlorophenol   | VOC <sup>1</sup> |
| 57-57-8    | beta-Propiolactone   | VOC                 | 88-06-2    | 2,4,6-Trichlorophenol   | VOC              |
| 57-74-9    | Chlordane  | VOC <sup>1</sup>    | 90-04-0    | o-Anisidine   | VOC              |
| 58-89-9    | Lindane (1,2,3,4,5,6-Hexachlorocyclohexane)  | VOC <sup>1</sup>    | 91-20-3    | Naphthalene   | VOC              |
| 59-89-2    | N-Nitrosomorpholine  | VOC                 | 91-22-5    | Quinoline   | VOC              |
| 60-11-7    | 4-Dimethylaminoazobenzene  | VOC <sup>1</sup>    | 91-94-1    | 3,3'-Dichlorobenzidine  | VOC <sup>1</sup> |
| 60-34-4    | Methylhydrazine  | VOC                 | 92-52-4    | Biphenyl  | VOC              |
| 60-35-5    | Acetamide  | VOC                 | 92-67-1    | 4-Aminobiphenyl   | VOC <sup>1</sup> |
| 62-53-3    | Aniline  | VOC                 | 92-87-5    | Benzidine   | VOC <sup>1</sup> |
| 62-73-7    | Dichlorvos   | VOC                 | 92-93-3    | 4-Nitrobiphenyl   | VOC <sup>1</sup> |
| 62-75-9    | N-Nitrosodimethylamine   | VOC                 | 94-75-7    | 2,4-D (2,4-Dichlorophenoxyacetic Acid) (including salts and esters) | VOC <sup>1</sup> |
| 63-25-2    | Carbaryl   | VOC <sup>1</sup>    | 95-47-6    | o-Xylene  | VOC              |
| 64-67-5    | Diethyl sulfate  | VOC                 | 95-48-7    | o-Cresol  | VOC              |
| 67-56-1    | Methanol   | VOC                 | 95-53-4    | o-Toluidine   | VOC              |
| 67-66-3    | Chloroform   | VOC                 | 95-80-7    | 2,4-Toluenediamine (2,4-Diaminotoluene)                             | VOC <sup>1</sup> |
| 67-72-1    | Hexachloroethane   | VOC                 | 95-95-4    | 2,4,5-Trichlorophenol   | VOC              |
| 68-12-2    | Dimethylformamide  | VOC                 | 96-09-3    | Styrene oxide   | VOC              |
| 71-43-2    | Benzene  | VOC                 | 96-12-8    | 1,2-Dibromo-3-chloropropane   | VOC              |
| 71-55-6    | Methyl chloroform (1,1,1-Trichloroethane)  | NR <sup>4</sup>     | 96-45-7    | Ethylene thiourea   | VOC              |
| 72-43-5    | Methoxychlor   | VOC <sup>1</sup>    | 98-07-7    | Benzotrichloride  | VOC              |
| 72-55-9    | DDE (1,1-dichloro-2,2-bis(p-chlorophenyl) ethylene)  | VOC <sup>1</sup>    | 98-82-8    | Cumene  | VOC              |
| 74-83-9    | Methyl bromide (Bromomethane)  | VOC                 | 98-86-2    | Acetophenone  | VOC              |
| 74-87-3    | Methyl chloride (Chloromethane)  | VOC                 | 98-95-3    | Nitrobenzene  | VOC              |
| 74-88-4    | Methyl iodide (Iodomethane)  | VOC                 | 100-02-7   | 4-Nitrophenol   | VOC <sup>1</sup> |
| 75-00-3    | Ethyl chloride (Chloroethane)  | VOC                 | 100-41-4   | Ethylbenzene  | VOC              |
| 75-01-4    | Vinyl chloride (Chloroethene)  | VOC                 | 100-42-5   | Styrene   | VOC              |
| 75-05-8    | Acetonitrile   | VOC                 | 100-44-7   | Benzyl chloride   | VOC              |
| 75-07-0    | Acetaldehyde   | VOC                 | 101-14-4   | 4,4'-Methylenebis(2-chloroaniline)                                  | VOC <sup>1</sup> |
| 75-09-2    | Methylene chloride (Dichloromethane)   | NR <sup>4</sup>     | 101-68-8   | 4,4'-Methylenediphenyl diisocyanate (MDI)                           | VOC              |
| 75-15-0    | Carbon disulfide   | VOC                 | 101-77-9   | 4,4'-Methylenedianiline   | VOC <sup>1</sup> |
| 75-21-8    | Ethylene oxide   | VOC                 | 106-42-3   | p-Xylene  | VOC              |
| 75-25-2    | Bromoform  | VOC                 |            |   |                  |

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| CAS Number | Chemical Name                                  | VOC/PM           |
|------------|--|------------------|
| 106-44-5   | p-Cresol                                       | VOC              |
| 106-46-7   | 1,4-Dichlorobenzene                            | VOC              |
| 106-50-3   | p-Phenylenediamine                             | VOC <sup>1</sup> |
| 106-51-4   | Quinone (p-Benzoquinone)                       | VOC              |
| 106-88-7   | 1,2-Epoxybutane (1,2-Butylene oxide)           | VOC              |
| 106-89-8   | Epichlorohydrin (l-Chloro-2,3-epoxypropane)    | VOC              |
| 106-93-4   | Ethylene dibromide (Dibromoethane)             | VOC              |
| 106-94-5   | 1-Bromopropane                                 | VOC              |
| 106-99-0   | 1,3-Butadiene                                  | VOC              |
| 107-02-8   | Acrolein                                       | VOC              |
| 107-05-1   | Allyl chloride                                 | VOC              |
| 107-06-2   | Ethylene dichloride (1,2-Dichloroethane)       | VOC              |
| 107-13-1   | Acrylonitrile                                  | VOC              |
| 107-21-1   | Ethylene glycol                                | VOC              |
| 107-30-2   | Chloromethyl methyl ether                      | VOC              |
| 108-05-4   | Vinyl acetate                                  | VOC              |
| 108-10-1   | Methyl isobutyl ketone (MIBK) (Hexone)         | VOC              |
| 108-31-6   | Maleic anhydride                               | VOC <sup>1</sup> |
| 108-38-3   | m-Xylene                                       | VOC              |
| 108-39-4   | m-Cresol                                       | VOC              |
| 108-88-3   | Toluene  | VOC              |
| 108-90-7   | Chlorobenzene                                  | VOC              |
| 108-95-2   | Phenol   | VOC              |
| 110-54-3   | Hexane   | VOC              |
| 111-42-2   | Diethanolamine                                 | VOC              |
| 111-44-4   | Dichloroethyl ether (Bis(2-chloroethyl) ether) | VOC              |
| 114-26-1   | Propoxur (Baygon)                              | VOC <sup>1</sup> |
| 117-81-7   | Di(2-ethylhexyl) phthalate (DEHP)              | VOC <sup>1</sup> |
| 118-74-1   | Hexachlorobenzene                              | VOC              |
| 119-90-4   | 3,3'-Dimethoxybenzidine                        | VOC <sup>1</sup> |
| 119-93-7   | 3,3'-Dimethylbenzidine                         | VOC <sup>1</sup> |
| 120-80-9   | Catechol                                       | VOC              |
| 120-82-1   | 1,2,4-Trichlorobenzene                         | VOC              |
| 121-14-2   | 2,4-Dinitrotoluene                             | VOC              |
| 121-44-8   | Triethylamine                                  | VOC              |
| 121-69-7   | N,N-Dimethylaniline                            | VOC              |
| 122-66-7   | 1,2-Diphenylhydrazine                          | VOC              |
| 123-31-9   | Hydroquinone                                   | VOC <sup>1</sup> |
| 123-38-6   | Propionaldehyde                                | VOC              |

| CAS Number | Chemical Name                               | VOC/PM           |
|------------|---|------------------|
| 123-91-1   | 1,4-Dioxane (1,4-Diethylene oxide)          | VOC              |
| 126-99-8   | Chloroprene (2-chloro-1,3-butadiene)        | VOC              |
| 127-18-4   | Tetrachloroethylene (Perchloroethylene)     | NR <sup>4</sup>  |
| 131-11-3   | Dimethyl phthalate                          | VOC              |
| 132-64-9   | Dibenzofuran                                | VOC <sup>1</sup> |
| 133-06-2   | Captan                                      | VOC <sup>1</sup> |
| 133-90-4   | Chloramben                                  | VOC <sup>1</sup> |
| 140-88-5   | Ethyl acrylate                              | VOC              |
| 151-56-4   | Ethyleneimine (Aziridine)                   | VOC              |
| 156-62-7   | Calcium cyanamide                           | PM               |
| 302-01-2   | Hydrazine                                   |                  |
| 334-88-3   | Diazomethane                                | VOC              |
| 463-58-1   | Carbonyl sulfide                            | VOC              |
| 510-15-6   | Chlorobenzilate                             | VOC <sup>1</sup> |
| 532-27-4   | 2-Chloroacetophenone                        | VOC              |
| 534-52-1   | 4,6-Dinitro-o-cresol (including salts)      | VOC <sup>1</sup> |
| 540-84-1   | 2,2,4-Trimethylpentane                      | VOC              |
| 542-75-6   | 1,3-Dichloropropene                         | VOC              |
| 542-88-1   | Bis(chloromethyl) ether                     | VOC              |
| 584-84-9   | 2,4-Toluene diisocyanate                    | VOC              |
| 593-60-2   | Vinyl bromide (Bromoethene)                 | VOC              |
| 624-83-9   | Methyl isocyanate                           | VOC              |
| 680-31-9   | Hexamethylphosphoramide                     | VOC              |
| 684-93-5   | N-Nitroso-N-methylurea                      | VOC              |
| 822-06-0   | Hexamethylene-1,6-diisocyanate              | VOC              |
| 1120-71-4  | 1,3-Propane sultone                         | VOC              |
| 1319-77-3  | Cresol/Cresylic acid (mixed isomers)        | VOC              |
| 1330-20-7  | Xylenes (mixed isomers)                     | VOC              |
| 1332-21-4  | Asbestos (friable)                          | PM               |
| 1336-36-3  | Polychlorinated biphenyls (PCBs) (Aroclors) | VOC <sup>1</sup> |
| 1582-09-8  | Trifluralin                                 | VOC <sup>1</sup> |
| 1634-04-4  | Methyl tert-butyl ether (MTBE)              | VOC              |
| 1746-01-6  | 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)  | VOC <sup>1</sup> |
| 7550-45-0  | Titanium tetrachloride                      |                  |
| 7647-01-0  | Hydrochloric acid (HCl)                     | PM <sup>5</sup>  |
| 7664-39-3  | Hydrogen fluoride (HF)                      | PM <sup>5</sup>  |
| 7723-14-0  | Phosphorus (yellow or white)                | PM <sup>2</sup>  |
| 7782-50-5  | Chlorine                                    |                  |
| 7803-51-2  | Phosphine                                   |                  |
| 8001-35-2  | Toxaphene (chlorinated camphene)            | VOC <sup>1</sup> |

Notes:

- 1 This compound is defined as a VOC (40 CFR 51.100), but has a low vapor pressure. Emissions may be measured as either VOC or PM, depending on the process generating the emissions, and the test method used to measure the emissions.
- 2 Compounds in this class may be emitted as PM or as inorganic vapors.
- 3 Compounds in this class may be emitted as PM or as VOC.
- 4 Not Reactive-these compounds have been determined to have negligible photochemical reactivity, and are not defined as VOC (40 CFR 51.100)
- 5 DNR determined in May 2016 that HCl and HF be considered as PM for Title V emissions fee purpose