

APPENDIX I

**LIST OF HAZARDOUS AIR POLLUTANTS AND
ASSOCIATED MACT SOURCE CATEGORIES**

[NOTE: These tables include only MACT source categories for which national-level HAP emission estimates have been developed under EPA's National Toxic Inventory Development Program; they do not include all HAP emissions from all MACT sources. Source: U.S. Environmental Protection Agency, 1998. *Baseline Emissions Inventory of HAP Emissions from MACT Sources*. Prepared by the Emission Factor and Inventory Group, Research Triangle Park, North Carolina.]

Hazardous Air Pollutants and Their Associated MACT Source Categories

| 1,1,2,2-Tetrachloroethane (79345) | |
|--|--|
| Chlorine Production | Portland Cement Manufacturing: Hazardous Waste-fired |
| Hazardous Waste Incineration | Portland Cement Manufacturing: Non-Hazardous Waste-fired |
| Medical Waste Incinerators | Secondary Lead Smelting |
| MON | Sewage Sludge Incineration |
| Municipal Landfills | Tire Production |
| Polymers & Resins (Excluding P&R III) | |
| 1,1,2-Trichloroethane (79005) | |
| Chlorine Production | Portland Cement Manufacturing: Non-Hazardous Waste-fired |
| Hazardous Waste Incineration | Pulp and Paper Production (non-combustion) MACT I |
| MON | Steel Foundries |
| Paper and Other Webs (Surface Coating) | Tire Production |
| Pharmaceuticals Production | Utilities - Coal |
| Portland Cement Manufacturing: Hazardous Waste-fired | |
| 1,1-Dimethylhydrazine (57147) | |
| Chlorine Production | MON |
| | Polymers & Resins (Excluding P&R III) |
| 1,2,4-Trichlorobenzene (120821) | |
| Agricultural Chemicals Production | Portland Cement Manufacturing: Non-Hazardous Waste-fired |
| Chlorine Production | Pulp and Paper Production (non-combustion) MACT I |
| MON | Semiconductor Manufacturing |
| Portland Cement Manufacturing: Hazardous Waste-fired | Tire Production |
| 1,2-Dibromo-3-chloropropane (96128) | |
| Tire Production | |
| 1,2-Epoxybutane (106887) | |
| Chlorine Production | Polymers & Resins (Excluding P&R III) |
| Pharmaceuticals Production | |
| 1,2-Propylenimine (2-Methylaziridine) (75558) | |
| MON | Polymers & Resins (Excluding P&R III) |
| Pharmaceuticals Production | |
| 1,3-Butadiene (106990) | |
| Agricultural Chemicals Production | Polymers & Resins (Excluding P&R III) |
| Chlorine Production | Secondary Lead Smelting |
| Coke By-Product Plants | Stationary Internal Combustion Engines |
| MON | Tire Production |
| 1,3-Dichloropropene (542756) | |
| Agricultural Chemicals Production | Polymers & Resins (Excluding P&R III) |
| Chlorine Production | Secondary Lead Smelting |
| MON | Utilities - Coal |
| 1,4-Dichlorobenzene (p) (106467) | |
| Agricultural Chemicals Production | MON |

Hazardous Air Pollutants and Their Associated MACT Source Categories (Continued)

| | |
|---|---|
| Chlorine Production | Portland Cement Manufacturing: Hazardous Waste-fired |
| Clay Products Manufacturing | Portland Cement Manufacturing: Non-Hazardous Waste-fired |
| Friction Products Manufacturing | Sewage Sludge Incineration |
| Industrial Boilers | Tire Production |
| 1,4-Dioxane (1,4-Diethyleneoxide) (123911) | |
| Aerospace Industries | Paper and Other Webs (Surface Coating) |
| Agricultural Chemicals Production | Pharmaceuticals Production |
| Chlorine Production | Polymers & Resins (Excluding P&R III) |
| Iron Foundries | Printing/Publishing (Surface Coating) |
| MON | Tire Production |
| 2,2,4-trimethylpentane (540841) | |
| Gasoline Distribution (Stage 1) | Petroleum Refineries: Other Sources Not Distinctly Listed |
| Oil and Natural Gas Production | Tire Production |
| 2,4,5-Trichlorophenol | |
| Tire Production | |
| 2,4,6-Trichlorophenol (95954) | |
| Polymers & Resins (Excluding P&R III) | Tire Production |
| 2,4-D (2,4-Dichlorophenoxyacetic Acid) (94757) | |
| Agricultural Chemicals Production | Polymers & Resins (Excluding P&R III) |
| MON | |
| 2,4-Dinitrophenol (51285) | |
| Agricultural Chemicals Production | MON |
| Coke By-Product Plants | Polymers & Resins (Excluding P&R III) |
| Industrial Boilers | Steel Foundries |
| Institutional/Commercial Boilers | Tire Production |
| 2,4-Dinitrotoluene (121142) | |
| Industrial Boilers | MON |
| Institutional/Commercial Boilers | Tire Production |
| | Utilities - Coal |
| 2,4-Toluene Diisocyanate (584849) | |
| Clay Products Manufacturing | Polymers & Resins (Excluding P&R III) |
| Flexible Polyurethane Foam Production | Spandex Production |
| MON | Vegetable Oil Production |
| Paper and Other Webs (Surface Coating) | |
| 2-Chloroacetophenone (532274) | |
| Industrial Boilers | Tire Production |
| Institutional/Commercial Boilers | Utilities - Coal |
| 2-Nitropropane | |
| MON | Portland Cement Manufacturing: Non-Hazardous Waste-fired |
| Portland Cement Manufacturing: Hazardous Waste-fired | Printing/Publishing (Surface Coating) |

Hazardous Air Pollutants and Their Associated MACT Source Categories (Continued)

| | |
|--|---|
| 3,3-Dichlorobenzidine (91941) | |
| MON | Tire Production |
| 3,3-Dimethoxybenzidine (119904) | |
| Tire Production | |
| 3,3'-Dimethylbenzidine (119934) | |
| Tire Production | |
| 4,4-Methylenebis(2-chloroaniline) (101144) | |
| Polymers & Resins (Excluding P&R III) | Tire Production |
| 4,4'-Methylenedianiline (101779) | |
| Chlorine Production | Polymers & Resins (Excluding P&R III) |
| MON | Tire Production |
| 4,6-Dinitro-o-cresol (including salts) (534521) | |
| Agricultural Chemicals Production | Tire Production |
| MON | |
| 4,4'-Methylenedianiline (101779) | |
| Agricultural Chemicals Production | MON |
| Boat Manufacturing | Plywood/Particle Board Manufacturing |
| Chlorine Production | Polymers & Resins (Excluding P&R III) |
| Flexible Polyurethane Foam Production | Printing/Publishing (Surface Coating) |
| Integrated Iron and Steel Manufacturing | Steel Foundries |
| Iron Foundries | Vegetable Oil Production |
| Mineral Wool Production | |
| 4-Aminobiphenyl (92671) | |
| Tire Production | |
| Dimethylaminoazobenzene (60117) | |
| Tire Production | |
| 4-Nitrobiphenyl (92933) | |
| Tire Production | |
| 4-Nitrophenol (100027) | |
| Agricultural Chemicals Production | Institutional/Commercial Boilers |
| | MON |
| Industrial Boilers | Tire Production |
| Acetaldehyde (75070) | |
| Baker's Yeast Manufacturing | Pulp and Paper Production (combustion) MACT II |
| Chlorine Production | Pulp and Paper Production (non-combustion) MACT I |
| Industrial Boilers | Secondary Lead Smelting |
| Institutional/Commercial Boilers | Sewage Sludge Incineration |
| MON | Stationary Internal Combustion Engines |
| Municipal Waste Combustors | Stationary Turbines |
| Other Biological Incineration | Tire Production, |
| Paper and Other Webs (Surface Coating) | Utilities - Coal |

Hazardous Air Pollutants and Their Associated MACT Source Categories (Continued)

| | |
|--|--|
| Plywood/Particle Board Manufacturing | Utilities - Oil |
| Polymers & Resins (Excluding P&R III) | |
| Acetamide (60355) | |
| MON | |
| Acetonitrile (75058) | |
| Agricultural Chemicals Production | Portland Cement Manufacturing: Hazardous Waste-fired |
| MON | Portland Cement Manufacturing: Non-Hazardous Waste-fired |
| Paper and Other Webs (Surface Coating) | Sewage Sludge Incineration |
| Pharmaceuticals Production | Tire Production |
| Polymers & Resins (Excluding P&R III) | |
| Acetophenone (98862) | |
| Industrial Boilers | Secondary Lead Smelting |
| Institutional/Commercial Boilers | Tire Production |
| Pharmaceuticals Production | Utilities - Coal |
| Pulp and Paper Production (non-combustion) MACT I | |
| Acrolein (107028) | |
| Chlorine Production | Pulp and Paper Production (non-combustion) MACT I |
| Industrial Boilers | Secondary Lead Smelting |
| Institutional/Commercial Boilers | Stationary Internal Combustion Engines |
| MON | Tire Production |
| Polymers & Resins (Excluding P&R III) | Utilities - Coal |
| Acrylamide (79061) | |
| MON | Polymers & Resins (Excluding P&R III) |
| Paper and Other Webs (Surface Coating) | |
| Acrylic Acid (79107) | |
| Agricultural Chemicals Production | Pharmaceuticals Production |
| Chlorine Production | Polymers & Resins (Excluding P&R III) |
| MON | Printing/Publishing (Surface Coating) |
| Paper and Other Webs (Surface Coating) | |
| Acrylonitrile (107131) | |
| Acrylic Fibers/Modacrylic Fibers Production | Polymers & Resins (Excluding P&R III) |
| Agricultural Chemicals Production | Portland Cement Manufacturing: Hazardous Waste-fired |
| Chlorine Production | Portland Cement Manufacturing: Non-Hazardous Waste-fired |
| Clay Products Manufacturing | Publicly Owned Treatment Works (POTW) Emissions |
| MON | Secondary Lead Smelting |
| Municipal Landfills | Sewage Sludge Incineration |
| Paper and Other Webs (Surface Coating) | Tire Production |
| Pharmaceuticals Production | |
| Allyl Chloride (107051) | |
| Chlorine Production | Polymers & Resins (Excluding P&R III) |

Hazardous Air Pollutants and Their Associated MACT Source Categories (Continued)

| | |
|---|---|
| MON | Tire Production |
| Pharmaceuticals Production | |
| Aniline (62533) | |
| Agricultural Chemicals Production | Polymers & Resins (Excluding P&R III) |
| Chlorine Production | Portland Cement Manufacturing: Hazardous Waste-fired |
| MON | Portland Cement Manufacturing: Non-Hazardous Waste-fired |
| Paper and Other Webs (Surface Coating) | Tire Production |
| Pharmaceuticals Production | |
| Antimony & Compounds | |
| Agricultural Chemicals Production | Primary Copper Smelting |
| Asphalt Roofing Manufacturing | Primary Lead Smelting |
| Clay Products Manufacturing | Printing/Publishing (Surface Coating) |
| Coke By-Product Plants | Pulp and Paper Production (combustion) MACT II |
| Ferroalloys Production | Secondary Aluminum Production |
| Industrial Boilers | Secondary Lead Smelting |
| Institutional/Commercial Boilers | Semiconductor Manufacturing |
| Iron Foundries | Sewage Sludge Incineration |
| Medical Waste Incinerators | Steel Foundries |
| MON | Utilities - Coal |
| Paper and Other Webs (Surface Coating) | Utility Turbines |
| Polymers & Resins (Excluding P&R III) | |
| Arsenic & Compounds (inorganic including Arsine) | |
| Aerospace Industries | Primary Copper Smelting |
| Agricultural Chemicals Production | Primary Lead Smelting |
| Clay Products Manufacturing | Printing/Publishing (Surface Coating) |
| Crematories | Pulp and Paper Production (combustion) MACT II |
| Hazardous Waste Incineration | Secondary Aluminum Production |
| Industrial Boilers | Secondary Lead Smelting |
| Institutional/Commercial Boilers | Sewage Sludge Incineration |
| Iron Foundries | Steel Foundries |
| Medical Waste Incinerators | Utilities - Coal |
| MON | Utilities - Natural Gas |
| Municipal Waste Combustors | Utilities - Oil |
| Pharmaceuticals Production | Utility Turbines |
| Plywood/Particle Board Manufacturing | Wool Fiberglass Manufacturing |
| Asbestos (1332214) | |
| Asphalt Concrete Manufacturing | Chlorine Production |
| Asphalt Roofing Manufacturing | Paper and Other Webs (Surface Coating) |
| Benzene (71432) | |
| Aerospace Industries | Paper and Other Webs (Surface Coating) |
| Agricultural Chemicals Production | Petroleum Refineries: Other Sources Not Distinctly Listed |
| Asphalt Concrete Manufacturing | Pharmaceuticals Production |

Hazardous Air Pollutants and Their Associated MACT Source Categories (Continued)

| | |
|--|--|
| Asphalt Roofing Manufacturing | Polymers & Resins (Excluding P&R III) |
| Carbon Black Production | Portland Cement Manufacturing: Hazardous Waste-fired |
| Chlorine Production | Portland Cement Manufacturing: Non-Hazardous Waste-fired |
| Clay Products Manufacturing | Printing/Publishing (Surface Coating) |
| Coke By-Product Plants | Publicly Owned Treatment Works (POTW) Emissions |
| Coke Ovens: Charging, Top Side, and Door Leaks | Pulp and Paper Production (combustion) MACT II |
| Coke Ovens: Pushing, Quenching, and Battery Stacks | Pulp and Paper Production (non-combustion) MACT I |
| Gasoline Distribution (Stage 1) | Secondary Lead Smelting |
| Hazardous Waste Incineration | Sewage Sludge Incineration |
| Industrial Boilers | Stationary Internal Combustion Engines |
| Institutional/Commercial Boilers | Stationary Turbines |
| Integrated Iron and Steel Manufacturing | Steel Foundries |
| Iron Foundries | Taconite Iron Ore Processing |
| Marine Vessel Loading Operations | Tire Production |
| Medical Waste Incinerators | Utilities - Coal |
| MON | Utilities - Natural Gas |
| Municipal Landfills | Utilities - Oil |
| Oil and Natural Gas Production | Utility Turbines |
| Benzidine (92875) | |
| Tire Production | |
| Benzotrichloride (98077) | |
| Chlorine Production | Pulp and Paper Production (non-combustion) MACT I |
| MON | Tire Production |
| Benzyl Chloride (100447) | |
| Chlorine Production | Pharmaceuticals Production |
| Industrial Boilers | Polymers & Resins (Excluding P&R III) |
| Institutional/Commercial Boilers | Tire Production |
| MON | Utilities - Coal |
| Beryllium & Compounds | |
| Clay Products Manufacturing | Pulp and Paper Production (combustion) MACT II |
| Crematories | Sewage Sludge Incineration |
| Industrial Boilers | Steel Foundries |
| Institutional/Commercial Boilers | Utilities - Coal |
| Medical Waste Incinerators | Utilities - Oil |
| MON | Utility Boilers - Coke |
| Municipal Waste Combustors | Utility Turbines |
| Primary Copper Smelting | |
| Biphenyl (92524) | |
| Agricultural Chemicals Production | Pharmaceuticals Production |
| Carbon Black Production | Polymers & Resins (Excluding P&R III) |

Hazardous Air Pollutants and Their Associated MACT Source Categories (Continued)

| | |
|---|--|
| Chlorine Production | Rayon Production |
| Coke By-Product Plants | Secondary Lead Smelting |
| MON | Steel Foundries |
| Paper and Other Webs (Surface Coating) | Tire Production |
| Petroleum Refineries: Other Sources Not Distinctly Listed | Vegetable Oil Production |
| Bis(2-ethylhexyl)phthalate (117817) | |
| Agricultural Chemicals Production | Plywood/Particle Board Manufacturing |
| Asphalt Concrete Manufacturing | Polymers & Resins (Excluding P&R III) |
| Clay Products Manufacturing | Printing/Publishing (Surface Coating) |
| Friction Products Manufacturing | Secondary Lead Smelting |
| Industrial Boilers | Sewage Sludge Incineration |
| Institutional/Commercial Boilers | Tire Production |
| Paper and Other Webs (Surface Coating) | Utilities - Coal |
| Pharmaceuticals Production | |
| Bis(chloromethyl) Ether (542881) | |
| MON | Polymers & Resins (Excluding P&R III) |
| Bromoform (75252) | |
| Industrial Boilers | Tire Production |
| Institutional/Commercial Boilers | Utilities - Coal |
| Cadmium & Compounds | |
| Aerospace Industries | Primary Lead Smelting |
| Carbon Black Production | Printing/Publishing (Surface Coating) |
| Clay Products Manufacturing | Pulp and Paper Production (combustion) MACT II |
| Crematories | Secondary Aluminum Production |
| Industrial Boilers | Secondary Lead Smelting |
| Institutional/Commercial Boilers | Sewage Sludge Incineration |
| Iron Foundries | Stationary Turbines |
| Medical Waste Incinerators | Steel Foundries |
| MON | Tire Production |
| Municipal Waste Combustors | Utilities - Coal |
| Other Biological Incineration | Utilities - Natural Gas |
| Paper and Other Webs (Surface Coating) | Utilities - Oil |
| Polymers & Resins (Excluding P&R III) | Utility Boilers - Coke |
| Primary Copper Smelting | Utility Turbines |
| Calcium Cyanamide (156627) | |
| MON | |
| Captan (133062) | |
| Agricultural Chemicals Production | MON |
| Carbaryl (63252) | |
| Agricultural Chemicals Production | MON |

Hazardous Air Pollutants and Their Associated MACT Source Categories (Continued)

| Carbon Disulfide (75150) | |
|--|--|
| Agricultural Chemicals Production | Municipal Landfills |
| Carbon Black Production | Pharmaceuticals Production |
| Cellophane Production | Polymers & Resins (Excluding P&R III) |
| Cellulose Food Casing Manufacturing | Portland Cement Manufacturing: Hazardous Waste-fired |
| Chlorine Production | Portland Cement Manufacturing: Non-Hazardous Waste-fired |
| Clay Products Manufacturing | Publicly Owned Treatment Works (POTW) Emissions |
| Coke By-Product Plants | Pulp and Paper Production (non-combustion) MACT I |
| Coke Ovens: Pushing, Quenching, and Battery Stacks | Rayon Production |
| Friction Products Manufacturing | Secondary Lead Smelting |
| Industrial Boilers | Steel Foundries |
| Institutional/Commercial Boilers | Tire Production |
| MON | Utilities - Coal |
| Carbon Tetrachloride (56235) | |
| Agricultural Chemicals Production | Pharmaceuticals Production |
| Chlorine Production | Polymers & Resins (Excluding P&R III) |
| Clay Products Manufacturing | Pulp and Paper Production (non-combustion) MACT I |
| Hazardous Waste Incineration | Sewage Sludge Incineration |
| Medical Waste Incinerators | Tire Production |
| MON | Utilities - Coal |
| Municipal Landfills | |
| Carbonyl Sulfide (463581) | |
| Carbon Black Production | Municipal Landfills |
| Chlorine Production | Polymers & Resins (Excluding P&R III) |
| Coke By-Product Plants | Primary Aluminum Production |
| Coke Ovens: Pushing, Quenching, and Battery Stacks | Steel Foundries |
| MON | Tire Production |
| Catechol (120809) | |
| MON | Semiconductor Manufacturing |
| Paper and Other Webs (Surface Coating) | |
| Chloramben (133904) | |
| Agricultural Chemicals Production | |
| Chlordane (57749) | |
| MON | |
| Chlorine (7782505) | |
| Agricultural Chemicals Production | Plywood/Particle Board Manufacturing |
| Chlorine Production | Polymers & Resins (Excluding P&R III) |
| Clay Products Manufacturing | Portland Cement Manufacturing: Hazardous Waste-fired |
| Coke By-Product Plants | Portland Cement Manufacturing: Non-Hazardous Waste-fired |
| Ferroalloys Production | Primary Aluminum Production |

Hazardous Air Pollutants and Their Associated MACT Source Categories (Continued)

| | |
|---|--|
| Industrial Boilers | Primary Copper Smelting |
| Institutional/Commercial Boilers | Primary Magnesium Refining |
| Iron Foundries | Printing/Publishing (Surface Coating) |
| Leather Tanning and Finishing Operations | Pulp and Paper Production (non-combustion) MACT I |
| Medical Waste Incinerators | Rayon Production |
| MON | Semiconductor Manufacturing |
| Paper and Other Webs (Surface Coating) | Steel Foundries |
| Pharmaceuticals Production | Steel Pickling HCl Process |
| Phosphate Fertilizers Production | |
| Chloroacetic Acid (79118) | |
| MON | Polymers & Resins (Excluding P&R III) |
| Pharmaceuticals Production | |
| Chlorobenzene (108907) | |
| Agricultural Chemicals Production | Polymers & Resins (Excluding P&R III) |
| Chlorine Production | Portland Cement Manufacturing: Hazardous Waste-fired |
| Clay Products Manufacturing | Portland Cement Manufacturing: Non-Hazardous Waste-fired |
| Industrial Boilers | Pulp and Paper Production (non-combustion) MACT I |
| Institutional/Commercial Boilers | Secondary Lead Smelting |
| MON | Sewage Sludge Incineration |
| Municipal Landfills | Steel Foundries |
| Paper and Other Webs (Surface Coating) | Tire Production |
| Pharmaceuticals Production | Utilities - Coal |
| Chloroform (67663) | |
| Agricultural Chemicals Production | Pharmaceuticals Production |
| Chlorine Production | Polymers & Resins (Excluding P&R III) |
| Clay Products Manufacturing | Portland Cement Manufacturing: Hazardous Waste-fired |
| Hazardous Waste Incineration | Portland Cement Manufacturing: Non-Hazardous Waste-fired |
| Industrial Boilers | Publicly Owned Treatment Works (POTW) Emissions |
| Institutional/Commercial Boilers | Pulp and Paper Production (non-combustion) MACT I |
| Medical Waste Incinerators | Secondary Lead Smelting |
| MON | Sewage Sludge Incineration |
| Municipal Landfills | Tire Production |
| Paper and Other Webs (Surface Coating) | Utilities - Coal |
| Chloromethyl Methyl Ether (107302) | |
| MON | Polymers & Resins (Excluding P&R III) |
| Pharmaceuticals Production | |
| Chloroprene | |
| Chlorine Production | Polymers & Resins (Excluding P&R III) |
| MON | Tire Production |
| Chromium & Compounds | |
| Aerospace Industries | Municipal Waste Combustors |
| Agricultural Chemicals Production | Paper and Other Webs (Surface Coating) |

Hazardous Air Pollutants and Their Associated MACT Source Categories (Continued)

| | |
|---|--|
| Asphalt Roofing Manufacturing | Plywood/Particle Board Manufacturing |
| Chlorine Production | Polymers & Resins (Excluding P&R III) |
| Chromic Acid Anodizing | Portland Cement Manufacturing: Hazardous Waste-fired |
| Chromium Refractories Production | Portland Cement Manufacturing: Non-Hazardous Waste-fired |
| Clay Products Manufacturing | Primary Aluminum Production |
| Coke By-Product Plants | Primary Copper Smelting |
| Crematories | Printing/Publishing (Surface Coating) |
| Decorative Chromium Electroplating | Pulp and Paper Production (combustion) MACT II |
| Ferroalloys Production | Secondary Aluminum Production |
| Friction Products Manufacturing | Secondary Lead Smelting |
| Hard Chromium Electroplating | Sewage Sludge Incineration |
| Industrial Boilers | Stationary Turbines |
| Industrial Process Cooling Towers | Steel Foundries |
| Institutional/Commercial Boilers | Tire Production |
| Integrated Iron and Steel Manufacturing | Utilities - Coal |
| Iron Foundries | Utilities - Natural Gas |
| Leather Tanning and Finishing Operations | Utilities - Oil |
| Lime Manufacturing | Utility Boilers - Coke |
| Medical Waste Incinerators | Utility Turbines |
| Mineral Wool Production | Wool Fiberglass Manufacturing |
| MON | |
| Cobalt Compounds | |
| Aerospace Industries | Primary Copper Smelting |
| Clay Products Manufacturing | Printing/Publishing (Surface Coating) |
| Ferroalloys Production | Pulp and Paper Production (combustion) MACT II |
| Industrial Boilers | Sewage Sludge Incineration |
| Institutional/Commercial Boilers | Steel Foundries |
| Integrated Iron and Steel Manufacturing | Utilities - Coal |
| Iron Foundries | Utilities - Natural Gas |
| MON | Utilities - Oil |
| Paper and Other Webs (Surface Coating) | Utility Turbines |
| Polymers & Resins (Excluding P&R III) | |
| Coke Oven Emissions | |
| Coke Ovens: Charging, Top Side, and Door Leaks | |
| Cresols (1319773) (includes o [95487], m [108394], and p [106445]) | |
| Agricultural Chemicals Production | Portland Cement Manufacturing: Hazardous Waste-fired |
| Chlorine Production | Portland Cement Manufacturing: Non-Hazardous Waste-fired |
| Coke By-Product Plants | Primary Copper Smelting |
| MON | Pulp and Paper Production (non-combustion) MACT I |
| Paper and Other Webs (Surface Coating) | Steel Foundries |

**Hazardous Air Pollutants and Their Associated MACT Source Categories
(Continued)**

| | |
|---|--|
| Petroleum Refineries: Other Sources Not Distinctly Listed | Tire Production |
| Polymers & Resins (Excluding P&R III) | Utilities - Coal |
| Cumene (98828) | |
| Agricultural Chemicals Production | Polymers & Resins (Excluding P&R III) |
| Asphalt Concrete Manufacturing | Portland Cement Manufacturing: Hazardous Waste-fired |
| Chlorine Production | Portland Cement Manufacturing: Non-Hazardous Waste-fired |
| Gasoline Distribution (Stage 1) | Primary Aluminum Production |
| Industrial Boilers | Printing/Publishing (Surface Coating) |
| Institutional/Commercial Boilers | Pulp and Paper Production (non-combustion) MACT I |
| Iron Foundries | Secondary Lead Smelting |
| MON | Steel Foundries |
| Paper and Other Webs (Surface Coating) | Tire Production |
| Petroleum Refineries: Other Sources Not Distinctly Listed | Utilities - Coal |
| Pharmaceuticals Production | |
| Cyanide Compounds | |
| Agricultural Chemicals Production | MON |
| Carbon Black Production | Paper and Other Webs (Surface Coating) |
| Coke By-Product Plants | Pharmaceuticals Production |
| Ferrous Alloys Production | Primary Aluminum Production |
| Industrial Boilers | Printing/Publishing (Surface Coating) |
| Institutional/Commercial Boilers | Steel Foundries |
| Dibutyl Phthalate (84742) | |
| Asphalt Concrete Manufacturing | Portland Cement Manufacturing: Hazardous Waste-fired |
| Clay Products Manufacturing | Portland Cement Manufacturing: Non-Hazardous Waste-fired |
| Friction Products Manufacturing | Printing/Publishing (Surface Coating) |
| MON | Secondary Lead Smelting |
| Paper and Other Webs (Surface Coating) | Tire Production |
| Plywood/Particle Board Manufacturing | Utilities - Coal |
| Polymers & Resins (Excluding P&R III) | |
| Dichloroethyl Ether (111444) | |
| Chlorine Production | Tire Production |
| MON | |
| Dichlorvos (62737) | |
| Agricultural Chemicals Production | Pharmaceuticals Production |
| MON | |
| Diethanolamine (111422) | |
| Agricultural Chemicals Production | Pharmaceuticals Production |
| Chlorine Production | Polymers & Resins (Excluding P&R III) |
| Iron Foundries | Portland Cement Manufacturing: Hazardous Waste-fired |
| MON | Portland Cement Manufacturing: Non-Hazardous Waste-fired |

Hazardous Air Pollutants and Their Associated MACT Source Categories (Continued)

| | |
|---|--|
| Paper and Other Webs (Surface Coating) | Steel Foundries |
| Diethyl Sulfate (64675) | |
| MON | Pharmaceuticals Production |
| Paper and Other Webs (Surface Coating) | Polymers & Resins (Excluding P&R III) |
| Dimethyl Phthalate (131113) | |
| Boat Manufacturing | Pharmaceuticals Production |
| Clay Products Manufacturing | Polymers & Resins (Excluding P&R III) |
| MON | Tire Production |
| Dimethyl Sulfate (77781) | |
| Agricultural Chemicals Production | MON |
| Industrial Boilers | Paper and Other Webs (Surface Coating) |
| Institutional/Commercial Boilers | Pharmaceuticals Production |
| Dimethylformamide (68122) | |
| Pharmaceuticals Production | |
| Dioxin/Furans as 2,3,7,8-TCDD TEQ (1746016) | |
| Crematories | Portland Cement Manufacturing: Non-Hazardous Waste-fired |
| Hazardous Waste Incineration | Pulp and Paper Production (combustion) MACT II |
| Industrial Boilers | Scrap or Waste Tire Incineration |
| Integrated Iron and Steel Manufacturing | Secondary Aluminum Production |
| Medical Waste Incinerators | Secondary Lead Smelting |
| Municipal Waste Combustors | Sewage Sludge Incineration |
| Other Biological Incineration | Utilities - Coal |
| Portland Cement Manufacturing: Hazardous Waste-fired | Utilities - Oil |
| Epichlorohydrin (1-Chloro-2,3-epoxypropane) (106898) | |
| Asphalt Concrete Manufacturing | Polymers & Resins (Excluding P&R III) |
| Chlorine Production | Portland Cement Manufacturing: Hazardous Waste-fired |
| MON | Portland Cement Manufacturing: Non-Hazardous Waste-fired |
| Pharmaceuticals Production | Tire Production |
| Ethyl Acrylate (140885) | |
| Chlorine Production | Pharmaceuticals Production |
| MON | Polymers & Resins (Excluding P&R III) |
| Paper and Other Webs (Surface Coating) | |
| Ethyl Carbamate (51796) | |
| Secondary Lead Smelting | |
| Ethyl Chloride (75003) | |
| Chlorine Production | Pharmaceuticals Production |
| Industrial Boilers | Polycarbonates Production |
| Institutional/Commercial Boilers | Polymers & Resins (Excluding P&R III) |
| MON | Tire Production |
| Municipal Landfills | Utilities - Coal |

Hazardous Air Pollutants and Their Associated MACT Source Categories (Continued)

| Ethylbenzene (100414) | |
|---|---|
| Aerospace Industries | Petroleum Refineries: Other Sources Not Distinctly Listed |
| Agricultural Chemicals Production | Pharmaceuticals Production |
| Asphalt Concrete Manufacturing | Plywood/Particle Board Manufacturing |
| Asphalt Roofing Manufacturing | Polymers & Resins (Excluding P&R III) |
| Chlorine Production | Portland Cement Manufacturing: Hazardous Waste-fired |
| Clay Products Manufacturing | Portland Cement Manufacturing: Non-Hazardous Waste-fired |
| Coke By-Product Plants | Printing/Publishing (Surface Coating) |
| Friction Products Manufacturing | Publicly Owned Treatment Works (POTW) Emissions |
| Gasoline Distribution (Stage 1) | Pulp and Paper Production (non-combustion) MACT I |
| Industrial Boilers | Secondary Lead Smelting |
| Institutional/Commercial Boilers | Semiconductor Manufacturing |
| Iron Foundries | Sewage Sludge Incineration |
| Mineral Wool Production | Steel Foundries |
| MON | Tire Production |
| Municipal Landfills | Utilities - Coal |
| Oil and Natural Gas Production | Utilities - Oil |
| Paper and Other Webs (Surface Coating) | |
| Ethylene Dibromide (106934) | |
| Industrial Boilers | Pharmaceuticals Production |
| Institutional/Commercial Boilers | Polymers & Resins (Excluding P&R III) |
| MON | Tire Production |
| Ethylene Dichloride (75343) | |
| Agricultural Chemicals Production | Paper and Other Webs (Surface Coating) |
| Chlorine Production | Pharmaceuticals Production |
| Gasoline Distribution (Stage 1) | Polymers & Resins (Excluding P&R III) |
| Industrial Boilers | Portland Cement Manufacturing: Hazardous Waste-fired |
| Institutional/Commercial Boilers | Portland Cement Manufacturing: Non-Hazardous Waste-fired |
| Medical Waste Incinerators | Pulp and Paper Production (non-combustion) MACT I |
| MON | Sewage Sludge Incineration |
| Municipal Landfills | Tire Production |
| Other Biological Incineration | Utilities - Coal |
| Ethylene Glycol (107211) | |
| Agricultural Chemicals Production | Metal Coil (Surface Coating) |
| Asphalt Concrete Manufacturing | Metal Furniture (Surface Coating) |
| Asphalt Roofing Manufacturing | Mineral Wool Production |
| Auto and Light Duty Truck (Surface Coating) | Miscellaneous Metal Parts and Products (Surface Coating) |
| Carbon Black Production | MON |
| Chlorine Production | Paper and Other Webs (Surface Coating) |
| Chromium Refractories Production | Pharmaceuticals Production |
| Clay Products Manufacturing | Plywood/Particle Board Manufacturing |
| Coke By-Product Plants | Polymers & Resins (Excluding P&R III) |

Hazardous Air Pollutants and Their Associated MACT Source Categories (Continued)

| | |
|---|--|
| Ferroalloys Production | Portland Cement Manufacturing: Hazardous Waste-fired |
| Flat Wood Paneling (Surface Coating) | Portland Cement Manufacturing: Non-Hazardous Waste-fired |
| Friction Products Manufacturing | Primary Aluminum Production |
| Integrated Iron and Steel Manufacturing | Printing/Publishing (Surface Coating) |
| Iron Foundries | Rayon Production |
| Large Appliance (Surface Coating) | Semiconductor Manufacturing |
| Metal Can (Surface Coating) | Steel Foundries |
| Ethylene Oxide (75218) | |
| Agricultural Chemicals Production | Paper and Other Webs (Surface Coating) |
| Chlorine Production | Pharmaceuticals Production |
| Commercial Sterilization Facilities | Polyether Polyols Production |
| MON | Polymers & Resins (Excluding P&R III) |
| Ethylidene Dichloride (75343) | |
| Municipal Landfills | Tire Production |
| Formaldehyde (50000) | |
| Aerospace Industries | Polymers and Resins III |
| Agricultural Chemicals Production | Portland Cement Manufacturing: Hazardous Waste-fired |
| Asphalt Roofing Manufacturing | Portland Cement Manufacturing: Non-Hazardous Waste-fired |
| Chlorine Production | Printing/Publishing (Surface Coating) |
| Chromium Refractories Production | Pulp and Paper Production (combustion) MACT II |
| Crematories | Pulp and Paper Production (non-combustion) MACT I |
| Friction Products Manufacturing | Secondary Aluminum Production |
| Industrial Boilers | Secondary Lead Smelting |
| Institutional/Commercial Boilers | Sewage Sludge Incineration |
| Iron Foundries | Stationary Internal Combustion Engines |
| Leather Tanning and Finishing Operations | Stationary Turbines |
| Medical Waste Incinerators | Steel Foundries |
| Mineral Wool Production | Taconite Iron Ore Processing |
| MON | Utilities - Coal |
| Municipal Waste Combustors | Utilities - Natural Gas |
| Paper and Other Webs (Surface Coating) | Utilities - Oil |
| Pharmaceuticals Production | Utility Turbines |
| Plywood/Particle Board Manufacturing | Wool Fiberglass Manufacturing |
| Polymers & Resins (Excluding P&R III) | |
| Glycol Ethers | |
| Aerospace Industries | MON |
| Agricultural Chemicals Production | Paper and Other Webs (Surface Coating) |
| Asphalt Roofing Manufacturing | Pharmaceuticals Production |
| Auto and Light Duty Truck (Surface Coating) | Plywood/Particle Board Manufacturing |
| Chlorine Production | Polymers & Resins (Excluding P&R III) |
| Clay Products Manufacturing | Portland Cement Manufacturing: Hazardous Waste-fired |
| Coke By-Product Plants | Portland Cement Manufacturing: Non-Hazardous Waste-fired |

Hazardous Air Pollutants and Their Associated MACT Source Categories (Continued)

| | |
|---|---|
| Flat Wood Paneling (Surface Coating) | Primary Aluminum Production |
| Friction Products Manufacturing | Printing/Publishing (Surface Coating) |
| Iron Foundries | Publicly Owned Treatment Works (POTW) Emissions |
| Large Appliance (Surface Coating) | Rayon Production |
| Leather Tanning and Finishing Operations | Semiconductor Manufacturing |
| Metal Can (Surface Coating) | Shipbuilding and Ship Repair (Surface Coating) |
| Metal Coil (Surface Coating) | Steel Foundries |
| Metal Furniture (Surface Coating) | Wood Furniture (Surface Coating) |
| Miscellaneous Metal Parts and Products (Surface Coating) | |
| Heptachlor (76448) | |
| MON | |
| Hexachlorobenzene (118741) | |
| Agricultural Chemicals Production | Tire Production |
| MON | Utilities - Coal |
| Hexachlorobutadiene (87683) | |
| Chlorine Production | Tire Production |
| MON | |
| Hexachlorocyclopentadiene (77474) | |
| Agricultural Chemicals Production | MON |
| Chlorine Production | Tire Production |
| Hexachloroethane (67721) | |
| Agricultural Chemicals Production | MON |
| Chlorine Production | Tire Production |
| Hexane (110543) | |
| Aerospace Industries | Petroleum Refineries: Other Sources Not Distinctly Listed |
| Gasoline Distribution (Stage 1) | Pharmaceuticals Production |
| Industrial Boilers | Polyether Polyols Production |
| Institutional/Commercial Boilers | Pulp and Paper Production (non-combustion) MACT I |
| Marine Vessel Loading Operations | Secondary Lead Smelting |
| Municipal Landfills | Tire Production |
| Oil and Natural Gas Production | Utilities - Coal |
| Hydrazine (302012) | |
| Agricultural Chemicals Production | Pharmaceuticals Production |
| Chlorine Production | Polymers & Resins (Excluding P&R III) |
| MON | |
| Hydrochloric Acid (Hydrogen Chloride [gas only]) (7647010) | |
| Agricultural Chemicals Production | Phosphate Fertilizers Production |
| Asphalt Concrete Manufacturing | Plywood/Particle Board Manufacturing |
| Chlorine Production | Polymers & Resins (Excluding P&R III) |
| Chromium Refractories Production | Portland Cement Manufacturing: Hazardous Waste-fired |
| Clay Products Manufacturing | Portland Cement Manufacturing: Non-Hazardous Waste-fired |

Hazardous Air Pollutants and Their Associated MACT Source Categories (Continued)

| | |
|--|--|
| Coke By-Product Plants | Primary Aluminum Production |
| Ferroalloys Production | Primary Copper Smelting |
| Friction Products Manufacturing | Primary Magnesium Refining |
| Hazardous Waste Incineration | Printing/Publishing (Surface Coating) |
| Industrial Boilers | Pulp and Paper Production (combustion) MACT II |
| Integrated Iron and Steel Manufacturing | Pulp and Paper Production (non-combustion) MACT I |
| Iron Foundries | Secondary Aluminum Production |
| Leather Tanning and Finishing Operations | Semiconductor Manufacturing |
| Lime Manufacturing | Sewage Sludge Incineration |
| Medical Waste Incinerators | Steel Foundries |
| MON | Steel Pickling HCl Process |
| Municipal Waste Combustors | Utilities - Coal |
| Paper and Other Webs (Surface Coating) | Utilities - Oil |
| Pharmaceuticals Production | Vegetable Oil Production |
| Hydrogen Fluoride (Hydrofluoric Acid) (7664393) | |
| Agricultural Chemicals Production | Paper and Other Webs (Surface Coating) |
| Chlorine Production | Phosphate Fertilizers Production |
| Chromium Refractories Production | Phosphoric Acid Manufacturing |
| Clay Products Manufacturing | Polymers & Resins (Excluding P&R III) |
| Ferroalloys Production | Primary Aluminum Production |
| Friction Products Manufacturing | Secondary Aluminum Production |
| Hydrogen Fluoride Production | Semiconductor Manufacturing |
| Integrated Iron and Steel Manufacturing | Steel Foundries |
| Iron Foundries | Utilities - Coal |
| Medical Waste Incinerators | Utilities - Oil |
| MON | |
| Hydroquinone (123319) | |
| Chlorine Production | Polymers & Resins (Excluding P&R III) |
| MON | Semiconductor Manufacturing |
| Paper and Other Webs (Surface Coating) | Tire Production |
| Isophorone (78591) | |
| Clay Products Manufacturing | Tire Production |
| Industrial Boilers | Utilities - Coal |
| Institutional/Commercial Boilers | |
| Lead & Compounds | |
| Aerospace Industries | Polymers & Resins (Excluding P&R III) |
| Agricultural Chemicals Production | Portland Cement Manufacturing: Hazardous Waste-fired |
| Asphalt Concrete Manufacturing | Portland Cement Manufacturing: Non-Hazardous Waste-fired |
| Auto and Light Duty Truck (Surface Coating) | Primary Aluminum Production |
| Boat Manufacturing | Primary Copper Smelting |
| Clay Products Manufacturing | Primary Lead Smelting |

Hazardous Air Pollutants and Their Associated MACT Source Categories (Continued)

| | |
|---|--|
| Coke By-Product Plants | Printing/Publishing (Surface Coating) |
| Ferroalloys Production | Pulp and Paper Production (combustion) MACT II |
| Friction Products Manufacturing | Secondary Aluminum Production |
| Gasoline Distribution (Stage 1) | Secondary Lead Smelting |
| Industrial Boilers | Semiconductor Manufacturing |
| Institutional/Commercial Boilers | Sewage Sludge Incineration |
| Integrated Iron and Steel Manufacturing | Steel Foundries |
| Iron Foundries | Taconite Iron Ore Processing |
| Lime Manufacturing | Tire Production |
| Medical Waste Incinerators | Utilities - Coal |
| MON | Utilities - Natural Gas |
| Municipal Waste Combustors | Utilities - Oil |
| Paper and Other Webs (Surface Coating) | Utility Turbines |
| Phosphate Fertilizers Production | Wool Fiberglass Manufacturing |
| Lindane (58899) | |
| Agricultural Chemicals Production | |
| Maleic Anhydride (108316) | |
| Agricultural Chemicals Production | Portland Cement Manufacturing: Hazardous Waste-fired |
| MON | Portland Cement Manufacturing: Non-Hazardous Waste-fired |
| Paper and Other Webs (Surface Coating) | Printing/Publishing (Surface Coating) |
| Pharmaceuticals Production | Vegetable Oil Production |
| Polymers & Resins (Excluding P&R III) | |
| Manganese & Compounds | |
| Agricultural Chemicals Production | Phosphate Fertilizers Production |
| Boat Manufacturing | Polymers & Resins (Excluding P&R III) |
| Chlorine Production | Primary Aluminum Production |
| Clay Products Manufacturing | Primary Copper Smelting |
| Coke By-Product Plants | Primary Lead Smelting |
| Ferroalloys Production | Pulp and Paper Production (combustion) MACT II |
| Friction Products Manufacturing | Secondary Aluminum Production |
| Industrial Boilers | Secondary Lead Smelting |
| Institutional/Commercial Boilers | Semiconductor Manufacturing |
| Integrated Iron and Steel Manufacturing | Sewage Sludge Incineration |
| Iron Foundries | Stationary Turbines |
| Medical Waste Incinerators | Steel Foundries |
| MON | Utilities - Coal |
| Municipal Waste Combustors | Utilities - Natural Gas |
| Paper and Other Webs (Surface Coating) | Utilities - Oil |
| Pharmaceuticals Production | Utility Turbines |
| Mercury & Compounds | |
| Aerospace Industries | Portland Cement Manufacturing: Hazardous Waste-fired |
| Carbon Black Production | Portland Cement Manufacturing: Non-Hazardous Waste-fired |

Hazardous Air Pollutants and Their Associated MACT Source Categories (Continued)

| | |
|--|--|
| Chlorine Production | Primary Copper Smelting |
| Chromic Acid Anodizing | Primary Lead Smelting |
| Clay Products Manufacturing | Pulp and Paper Production (combustion) MACT II |
| Crematories | Secondary Aluminum Production |
| Hazardous Waste Incineration | Secondary Lead Smelting |
| Industrial Boilers | Sewage Sludge Incineration |
| Institutional/Commercial Boilers | Stationary Internal Combustion Engines |
| Lime Manufacturing | Stationary Turbines |
| Medical Waste Incinerators | Steel Foundries |
| MON | Utilities - Coal |
| Municipal Waste Combustors | Utilities - Natural Gas |
| Polymers & Resins (Excluding P&R III) | Utilities - Oil. |
| | Utility Turbines |
| Methanol (67561) | |
| Aerospace Industries | Plywood/Particle Board Manufacturing |
| Agricultural Chemicals Production | Polymers & Resins (Excluding P&R III) |
| Chlorine Production | Polymers and Resins III |
| Chromium Refractories Production | Portland Cement Manufacturing: Hazardous Waste-fired |
| Clay Products Manufacturing | Portland Cement Manufacturing: Non-Hazardous Waste-fired |
| Coke By-Product Plants | Printing/Publishing (Surface Coating) |
| Friction Products Manufacturing | Publicly Owned Treatment Works (POTW) Emissions |
| Integrated Iron and Steel Manufacturing | Pulp and Paper Production (combustion) MACT II |
| Iron Foundries | Pulp and Paper Production (non-combustion) MACT I |
| Leather Tanning and Finishing Operations | Rayon Production |
| Mineral Wool Production | Semiconductor Manufacturing |
| MON | Steel Foundries |
| Paper and Other Webs (Surface Coating) | Vegetable Oil Production |
| Pharmaceuticals Production | Wool Fiberglass Manufacturing |
| Phosphate Fertilizers Production | |
| Methoxychlor (72435) | |
| Agricultural Chemicals Production | |
| Methyl Bromide (Bromomethane) (74839) | |
| Agricultural Chemicals Production | Paper and Other Webs (Surface Coating) |
| Clay Products Manufacturing | Polymers & Resins (Excluding P&R III) |
| Industrial Boilers | Secondary Lead Smelting |
| Institutional/Commercial Boilers | Tire Production |
| MON | Utilities - Coal |
| Methyl Chloride (74873) | |
| Aerospace Industries | Pharmaceuticals Production |
| Agricultural Chemicals Production | Polymers & Resins (Excluding P&R III) |
| Chlorine Production | Pulp and Paper Production (non-combustion) MACT I |
| Clay Products Manufacturing | Secondary Lead Smelting |

**Hazardous Air Pollutants and Their Associated MACT Source Categories
(Continued)**

| | |
|--|--|
| Industrial Boilers | Tire Production |
| MON | Utilities - Coal |
| Methyl Chloroform (1,1,1-Trichloroethane) (71556) | |
| Aerospace Industries | Municipal Landfills |
| Agricultural Chemicals Production | Paper and Other Webs (Surface Coating) |
| Asphalt Concrete Manufacturing | Pharmaceuticals Production |
| Asphalt Roofing Manufacturing | Phosphate Fertilizers Production |
| Boat Manufacturing | Plywood/Particle Board Manufacturing |
| Chlorine Production | Polymers & Resins (Excluding P&R III) |
| Chromium Refractories Production | Portland Cement Manufacturing: Hazardous Waste-fired |
| Clay Products Manufacturing | Portland Cement Manufacturing: Non-Hazardous Waste-fired |
| Ferroalloys Production | Primary Aluminum Production |
| Friction Products Manufacturing | Primary Copper Smelting |
| Halogenated Solvent Cleaners | Printing/Publishing (Surface Coating) |
| Hazardous Waste Incineration | Publicly Owned Treatment Works (POTW) Emissions |
| Industrial Boilers | Pulp and Paper Production (non-combustion) MACT I |
| Institutional/Commercial Boilers | Semiconductor Manufacturing |
| Integrated Iron and Steel Manufacturing | Sewage Sludge Incineration |
| Iron Foundries | Steel Foundries |
| Medical Waste Incinerators | Tire Production |
| Mineral Wool Production | Utilities - Coal |
| MON | Utilities - Oil |
| Methyl Ethyl Ketone (2-Butanone) (78933) | |
| Aerospace Industries | Paper and Other Webs (Surface Coating) |
| Auto and Light Duty Truck (Surface Coating) | Pharmaceuticals Production |
| Boat Manufacturing | Plywood/Particle Board Manufacturing |
| Chlorine Production | Polymers & Resins (Excluding P&R III) |
| Chromium Refractories Production | Portland Cement Manufacturing: Hazardous Waste-fired |
| Clay Products Manufacturing | Portland Cement Manufacturing: Non-Hazardous Waste-fired |
| Flat Wood Paneling (Surface Coating) | Primary Aluminum Production |
| Friction Products Manufacturing | Printing/Publishing (Surface Coating) |
| Industrial Boilers | Publicly Owned Treatment Works (POTW) Emissions |
| Institutional/Commercial Boilers | Pulp and Paper Production (combustion) MACT II |
| Integrated Iron and Steel Manufacturing | Pulp and Paper Production (non-combustion) MACT I |
| Iron Foundries | Secondary Lead Smelting |
| Large Appliance (Surface Coating) | Semiconductor Manufacturing |
| Leather Tanning and Finishing Operations | Sewage Sludge Incineration |
| Magnetic Tape (Surface Coating) | Shipbuilding and Ship Repair (Surface Coating) |
| Metal Can (Surface Coating) | Steel Foundries |
| Metal Coil (Surface Coating) | Tire Production |
| Metal Furniture (Surface Coating) | Utilities - Coal |

**Hazardous Air Pollutants and Their Associated MACT Source Categories
(Continued)**

| | |
|--|--|
| Miscellaneous Metal Parts and Products (Surface Coating) | Vegetable Oil Production |
| MON | Wood Furniture (Surface Coating) |
| Municipal Landfills | |
| Methyl Iodide (Iodomethane) (74884) | |
| Clay Products Manufacturing | Secondary Lead Smelting |
| MON | Utilities - Coal |
| Pharmaceuticals Production | |
| Methyl Isobutyl Ketone (Hexone) (108101) | |
| Aerospace Industries | Paper and Other Webs (Surface Coating) |
| Agricultural Chemicals Production | Pharmaceuticals Production |
| Asphalt Roofing Manufacturing | Phosphate Fertilizers Production |
| Auto and Light Duty Truck (Surface Coating) | Plywood/Particle Board Manufacturing |
| Chlorine Production | Polymers & Resins (Excluding P&R III) |
| Coke By-Product Plants | Portland Cement Manufacturing: Hazardous Waste-fired |
| Flat Wood Paneling (Surface Coating) | Portland Cement Manufacturing: Non-Hazardous Waste-fired |
| Friction Products Manufacturing | Primary Aluminum Production |
| Integrated Iron and Steel Manufacturing | Printing/Publishing (Surface Coating) |
| Iron Foundries | Publicly Owned Treatment Works (POTW) Emissions |
| Leather Tanning and Finishing Operations | Pulp and Paper Production (combustion) MACT II |
| Magnetic Tape (Surface Coating) | Pulp and Paper Production (non-combustion) MACT I |
| Metal Can (Surface Coating) | Semiconductor Manufacturing |
| Metal Coil (Surface Coating) | Shipbuilding and Ship Repair (Surface Coating) |
| Metal Furniture (Surface Coating) | Steel Foundries |
| Miscellaneous Metal Parts and Products (Surface Coating) | Tire Production |
| MON | Utilities - Coal |
| Municipal Landfills | Wood Furniture (Surface Coating) |
| Methyl Isocyanate (624839) | |
| Agricultural Chemicals Production | MON |
| Iron Foundries | Plywood/Particle Board Manufacturing |
| Methyl Methacrylate (80626) | |
| Agricultural Chemicals Production | Plywood/Particle Board Manufacturing |
| Boat Manufacturing | Polymers & Resins (Excluding P&R III) |
| Industrial Boilers | Portland Cement Manufacturing: Hazardous Waste-fired |
| Institutional/Commercial Boilers | Portland Cement Manufacturing: Non-Hazardous Waste-fired |
| MON | Utilities - Coal |
| Paper and Other Webs (Surface Coating) | |
| Methyl tert-Butyl Ether (1634044) | |
| Gasoline Distribution (Stage 1) | Pharmaceuticals Production |
| Industrial Boilers | Polymers & Resins (Excluding P&R III) |
| Institutional/Commercial Boilers | Tire Production |

Hazardous Air Pollutants and Their Associated MACT Source Categories (Continued)

| | |
|---|--|
| MON | Utilities - Coal |
| Petroleum Refineries: Other Sources Not Distinctly Listed | |
| Methylene Chloride (75092) | |
| Agricultural Chemicals Production | Plywood/Particle Board Manufacturing |
| Boat Manufacturing | Polycarbonates Production |
| Chlorine Production | Polymers & Resins (Excluding P&R III) |
| Clay Products Manufacturing | Portland Cement Manufacturing: Hazardous Waste-fired |
| Flexible Polyurethane Foam Fabrication Operations | Portland Cement Manufacturing: Non-Hazardous Waste-fired |
| Flexible Polyurethane Foam Production | Printing/Publishing (Surface Coating) |
| Friction Products Manufacturing | Publicly Owned Treatment Works (POTW) Emissions |
| Halogenated Solvent Cleaners | Pulp and Paper Production (non-combustion) MACT I |
| Industrial Boilers | Secondary Lead Smelting |
| Institutional/Commercial Boilers | Semiconductor Manufacturing |
| Iron Foundries | Sewage Sludge Incineration |
| Medical Waste Incinerators | Spandex Production |
| MON | Steel Foundries |
| Municipal Landfills | Tire Production |
| Paper and Other Webs (Surface Coating) | Utilities - Coal |
| Pharmaceuticals Production | Utilities - Oil |
| Methylhydrazine (60344) | |
| Industrial Boilers | MON |
| Institutional/Commercial Boilers | |
| N,N-Dimethylaniline (121697) | |
| MON | Polymers & Resins (Excluding P&R III) |
| Paper and Other Webs (Surface Coating) | Tire Production |
| Pharmaceuticals Production | |
| N-Nitrosodimethylamine (62759) | |
| Pharmaceuticals Production | Utilities - Coal |
| Tire Production | |
| N-Nitrosomorpholine (59892) | |
| Tire Production | |
| Nickel & Compounds | |
| Aerospace Industries | Portland Cement Manufacturing: Non-Hazardous Waste-fired |
| Chromium Refractories Production | Primary Aluminum Production |
| Clay Products Manufacturing | Primary Copper Smelting |
| Coke By-Product Plants | Primary Lead Smelting |
| Crematories | Printing/Publishing (Surface Coating) |
| Ferroalloys Production | Pulp and Paper Production (combustion) MACT II |
| Friction Products Manufacturing | Secondary Aluminum Production |
| Industrial Boilers | Secondary Lead Smelting |

Hazardous Air Pollutants and Their Associated MACT Source Categories (Continued)

| | |
|--|--|
| Institutional/Commercial Boilers | Sewage Sludge Incineration |
| Integrated Iron and Steel Manufacturing | Stationary Turbines |
| Iron Foundries | Steel Foundries |
| Medical Waste Incinerators | Tire Production |
| MON | Utilities - Coal |
| Municipal Waste Combustors | Utilities - Natural Gas |
| Paper and Other Webs (Surface Coating) | Utilities - Oil |
| Pharmaceuticals Production | Utility Boilers - Coke |
| Polymers & Resins (Excluding P&R III) | Utility Turbines |
| Portland Cement Manufacturing: Hazardous Waste-fired | Vegetable Oil Production |
| Nitrobenzene (98953) | |
| MON | Portland Cement Manufacturing: Hazardous Waste-fired |
| Pharmaceuticals Production | Portland Cement Manufacturing: Non-Hazardous Waste-fired |
| Polymers & Resins (Excluding P&R III) | Tire Production |
| o-Anisidine (90040) | |
| MON | Tire Production |
| o-Toluidine (95534) | |
| Polymers & Resins (Excluding P&R III) | Tire Production |
| p-Phenylenediamine (106503) | |
| MON | Tire Production |
| Polymers & Resins (Excluding P&R III) | |
| Parathion (56382) | |
| Agricultural Chemicals Production | |
| Pentachloronitrobenzene (Quintobenzene) (82688) | |
| Agricultural Chemicals Production | Tire Production |
| MON | |
| Pentachlorophenol (87865) | |
| Agricultural Chemicals Production | Portland Cement Manufacturing: Non-Hazardous Waste-fired |
| Plywood/Particle Board Manufacturing | Tire Production |
| Portland Cement Manufacturing: Hazardous Waste-fired | Utilities - Coal |
| Phenol (108952) | |
| Agricultural Chemicals Production | Polymers & Resins (Excluding P&R III) |
| Chlorine Production | Polymers and Resins III |
| Chromium Refractories Production | Portland Cement Manufacturing: Hazardous Waste-fired |
| Clay Products Manufacturing | Portland Cement Manufacturing: Non-Hazardous Waste-fired |
| Coke By-Product Plants | Printing/Publishing (Surface Coating) |
| Friction Products Manufacturing | Pulp and Paper Production (combustion) MACT II |
| Industrial Boilers | Pulp and Paper Production (non-combustion) MACT I |
| Institutional/Commercial Boilers | Secondary Lead Smelting |
| Integrated Iron and Steel Manufacturing | Semiconductor Manufacturing |

Hazardous Air Pollutants and Their Associated MACT Source Categories (Continued)

| | |
|---|--|
| Iron Foundries | Sewage Sludge Incineration |
| Lime Manufacturing | Stationary Turbines |
| Mineral Wool Production | Steel Foundries |
| MON | Tire Production |
| Paper and Other Webs (Surface Coating) | Utilities - Coal |
| Petroleum Refineries: Other Sources Not Distinctly Listed | Utilities - Oil |
| Pharmaceuticals Production | Wool Fiberglass Manufacturing |
| Plywood/Particle Board Manufacturing | |
| Phosgene (75445) | |
| Agricultural Chemicals Production | Pharmaceuticals Production |
| Chlorine Production | Polymers & Resins (Excluding P&R III) |
| MON | |
| Phosphorus (7723140) | |
| Clay Products Manufacturing | Steel Foundries |
| Industrial Boilers | Utilities - Coal |
| MON | Utilities - Natural Gas |
| Phosphate Fertilizers Production | Utilities - Oil |
| Sewage Sludge Incineration | Utility Turbines |
| Phthalic Anhydride (85449) | |
| MON | Portland Cement Manufacturing: Hazardous Waste-fired |
| Paper and Other Webs (Surface Coating) | Portland Cement Manufacturing: Non-Hazardous Waste-fired |
| Pharmaceuticals Production | Printing/Publishing (Surface Coating) |
| Polymers & Resins (Excluding P&R III) | Utilities - Coal |
| Polychlorinated Biphenyls (Aroclors) (1336363) | |
| Hazardous Waste Incineration | Other Biological Incineration |
| Industrial Boilers | Scrap or Waste Tire Incineration |
| Medical Waste Incinerators | Sewage Sludge Incineration |
| Municipal Landfills | Utilities - Oil |
| Municipal Waste Combustors | |
| Polycyclic Organic Matter as 16-PAH | |
| Aerospace Industries | Municipal Waste Combustors |
| Agricultural Chemicals Production | Paper and Other Webs (Surface Coating) |
| Asphalt Concrete Manufacturing | Petroleum Refineries Catalytic Cracking (Fluid and other) Units, Catalytic Reforming Units, and Sulfur Plant Units |
| Asphalt Roofing Manufacturing | Petroleum Refineries: Other Sources Not Distinctly Listed |
| Carbon Black Production | Pharmaceuticals Production |
| Chlorine Production | Polymers & Resins (Excluding P&R III) |
| Clay Products Manufacturing | Portland Cement Manufacturing: Hazardous Waste-fired |
| Coke By-Product Plants | Portland Cement Manufacturing: Non-Hazardous Waste-fired |
| Coke Ovens: Charging, Top Side, and Door Leaks | Primary Aluminum Production |

Hazardous Air Pollutants and Their Associated MACT Source Categories (Continued)

| | |
|--|--|
| Coke Ovens: Pushing, Quenching, and Battery Stacks | Printing/Publishing (Surface Coating) |
| Crematories | Pulp and Paper Production (combustion) MACT II |
| Ferrous Production | Scrap or Waste Tire Incineration |
| Friction Products Manufacturing | Secondary Lead Smelting |
| Gasoline Distribution (Stage 1) | Sewage Sludge Incineration |
| Hazardous Waste Incineration | Stationary Internal Combustion Engines |
| Industrial Boilers | Stationary Turbines |
| Institutional/Commercial Boilers | Steel Foundries |
| Integrated Iron and Steel Manufacturing | Tire Production |
| Iron Foundries | Utilities - Coal |
| Medical Waste Incinerators | Utilities - Natural Gas |
| MON | Utilities - Oil |
| Municipal Landfills | |
| Propionaldehyde (123386) | |
| Chlorine Production | Polymers & Resins (Excluding P&R III) |
| Industrial Boilers | Pulp and Paper Production (non-combustion) MACT I |
| Institutional/Commercial Boilers | Secondary Lead Smelting |
| MON | Utilities - Coal |
| Propoxur (Baygon) (114261) | |
| Agricultural Chemicals Production | Polymers & Resins (Excluding P&R III) |
| Propylene Dichloride (78875) | |
| Agricultural Chemicals Production | Paper and Other Webs (Surface Coating) |
| Chlorine Production | Polymers & Resins (Excluding P&R III) |
| MON | Tire Production |
| Municipal Landfills | |
| Propylene Oxide (75569) | |
| Agricultural Chemicals Production | Polyether Polyols Production |
| Chlorine Production | Polymers & Resins (Excluding P&R III) |
| MON | Portland Cement Manufacturing: Hazardous Waste-fired |
| Paper and Other Webs (Surface Coating) | Portland Cement Manufacturing: Non-Hazardous Waste-fired |
| Pharmaceuticals Production | Tire Production |
| Quinoline (91225) | |
| Coke By-Product Plants | Steel Foundries |
| MON | Utilities - Coal |
| Pharmaceuticals Production | |
| Quinone (p-Benzoquinone) (106514) | |
| MON | |
| Selenium Compounds | |
| Industrial Boilers | Pulp and Paper Production (combustion) MACT II |
| Institutional/Commercial Boilers | Sewage Sludge Incineration |
| MON | Steel Foundries |

Hazardous Air Pollutants and Their Associated MACT Source Categories (Continued)

| | |
|---|---|
| Paper and Other Webs (Surface Coating) | Utilities - Coal |
| Pharmaceuticals Production | Utilities - Oil |
| Primary Copper Smelting | Utility Turbines |
| Styrene (100425) | |
| Agricultural Chemicals Production | Plywood/Particle Board Manufacturing |
| Asphalt Concrete Manufacturing | Polymers & Resins (Excluding P&R III) |
| Boat Manufacturing | Portland Cement Manufacturing: Hazardous Waste-fired |
| Chlorine Production | Portland Cement Manufacturing: Non-Hazardous Waste-fired |
| Clay Products Manufacturing | Primary Copper Smelting |
| Coke By-Product Plants | Publicly Owned Treatment Works (POTW) Emissions |
| Industrial Boilers | Pulp and Paper Production (combustion) MACT II |
| Institutional/Commercial Boilers | Pulp and Paper Production (non-combustion) MACT I |
| Iron Foundries | Secondary Lead Smelting |
| Mineral Wool Production | Steel Foundries |
| MON | Tire Production |
| Paper and Other Webs (Surface Coating) | Utilities - Coal |
| Petroleum Refineries: Other Sources Not Distinctly Listed | |
| Styrene Oxide (96093) | |
| MON | |
| Tetrachloroethylene (127184) | |
| Aerospace Industries | Pharmaceuticals Production |
| Agricultural Chemicals Production | Plywood/Particle Board Manufacturing |
| Chlorine Production | Polymers & Resins (Excluding P&R III) |
| Clay Products Manufacturing | Portland Cement Manufacturing: Hazardous Waste-fired |
| Coke By-Product Plants | Portland Cement Manufacturing: Non-Hazardous Waste-fired |
| Dry Cleaning Facilities | Printing/Publishing (Surface Coating) |
| Friction Products Manufacturing | Publicly Owned Treatment Works (POTW) Emissions |
| Halogenated Solvent Cleaners | Pulp and Paper Production (non-combustion) MACT I |
| Industrial Boilers | Semiconductor Manufacturing |
| Institutional/Commercial Boilers | Sewage Sludge Incineration |
| Leather Tanning and Finishing Operations | Steel Foundries |
| Medical Waste Incinerators | Tire Production |
| MON | Utilities - Coal |
| Municipal Landfills | Utilities - Oil |
| Paper and Other Webs (Surface Coating) | |
| Titanium Tetrachloride (7550450) | |
| MON | Polymers & Resins (Excluding P&R III) |
| Toluene (108883) | |
| Aerospace Industries | Oil and Natural Gas Production |
| Agricultural Chemicals Production | Paper and Other Webs (Surface Coating) |
| Asphalt Concrete Manufacturing | Petroleum Refineries: Other Sources Not Distinctly Listed |

Hazardous Air Pollutants and Their Associated MACT Source Categories (Continued)

| | |
|--|--|
| Asphalt Roofing Manufacturing | Pharmaceuticals Production |
| Auto and Light Duty Truck (Surface Coating) | Phosphate Fertilizers Production |
| Boat Manufacturing | Plywood/Particle Board Manufacturing |
| Cellophane Production | Polyether Polyols Production |
| Chlorine Production | Polymers & Resins (Excluding P&R III) |
| Chromium Refractories Production | Portland Cement Manufacturing: Hazardous Waste-fired |
| Clay Products Manufacturing | Portland Cement Manufacturing: Non-Hazardous Waste-fired |
| Coke By-Product Plants | Primary Aluminum Production |
| Coke Ovens: Pushing, Quenching, and Battery Stacks | Printing/Publishing (Surface Coating) |
| Flat Wood Paneling (Surface Coating) | Publicly Owned Treatment Works (POTW) Emissions |
| Friction Products Manufacturing | Pulp and Paper Production (combustion) MACT II |
| Gasoline Distribution (Stage 1) | Pulp and Paper Production (non-combustion) MACT I |
| Industrial Boilers | Secondary Lead Smelting |
| Institutional/Commercial Boilers | Semiconductor Manufacturing |
| Integrated Iron and Steel Manufacturing | Sewage Sludge Incineration |
| Iron Foundries | Shipbuilding and Ship Repair (Surface Coating) |
| Large Appliance (Surface Coating) | Spandex Production |
| Leather Tanning and Finishing Operations | Stationary Internal Combustion Engines |
| Magnetic Tape (Surface Coating) | Stationary Turbines |
| Marine Vessel Loading Operations | Steel Foundries |
| Medical Waste Incinerators | Taconite Iron Ore Processing |
| Metal Can (Surface Coating) | Tire Production |
| Metal Coil (Surface Coating) | Utilities - Coal |
| Metal Furniture (Surface Coating) | Utilities - Natural Gas |
| Mineral Wool Production | Utilities - Oil |
| Miscellaneous Metal Parts and Products (Surface Coating) | Vegetable Oil Production |
| MON | Wood Furniture (Surface Coating) |
| Municipal Landfills | |
| Trichloroethylene (79016) | |
| Aerospace Industries | Plywood/Particle Board Manufacturing |
| Agricultural Chemicals Production | Polymers & Resins (Excluding P&R III) |
| Asphalt Roofing Manufacturing | Portland Cement Manufacturing: Hazardous Waste-fired |
| Chlorine Production | Portland Cement Manufacturing: Non-Hazardous Waste-fired |
| Clay Products Manufacturing | Printing/Publishing (Surface Coating) |
| Coke By-Product Plants | Publicly Owned Treatment Works (POTW) Emissions |
| Halogenated Solvent Cleaners | Pulp and Paper Production (non-combustion) MACT I |
| Integrated Iron and Steel Manufacturing | Secondary Lead Smelting |
| Iron Foundries | Semiconductor Manufacturing |
| Medical Waste Incinerators | Sewage Sludge Incineration |
| MON | Steel Foundries |

Hazardous Air Pollutants and Their Associated MACT Source Categories (Continued)

| | |
|---|---|
| Municipal Landfills | Tire Production |
| Paper and Other Webs (Surface Coating) | Utilities - Coal |
| Pharmaceuticals Production | |
| Triethylamine (121448) | |
| Pharmaceuticals Production | |
| Trifluralin (1582098) | |
| Agricultural Chemicals Production | Pharmaceuticals Production |
| MON | Tire Production |
| Vinyl Acetate (108054) | |
| Chlorine Production | Polymers & Resins (Excluding P&R III) |
| Clay Products Manufacturing | Portland Cement Manufacturing: Hazardous Waste-fired |
| Industrial Boilers | Portland Cement Manufacturing: Non-Hazardous Waste-fired |
| Institutional/Commercial Boilers | Printing/Publishing (Surface Coating) |
| Mineral Wool Production | Tire Production |
| MON | Utilities - Coal |
| Paper and Other Webs (Surface Coating) | Utilities - Oil |
| Pharmaceuticals Production | |
| Vinyl Bromide (593602) | |
| MON | Polymers & Resins (Excluding P&R III) |
| Vinyl Chloride (75014) | |
| Agricultural Chemicals Production | Paper and Other Webs (Surface Coating) |
| Chlorine Production | Polymers & Resins (Excluding P&R III) |
| Hazardous Waste Incineration | Sewage Sludge Incineration |
| MON | Tire Production |
| Municipal Landfills | |
| Vinylidene Chloride (75354) | |
| Chlorine Production | Pharmaceuticals Production |
| MON | Polymers & Resins (Excluding P&R III) |
| Municipal Landfills | Tire Production |
| Paper and Other Webs (Surface Coating) | Utilities - Coal |
| Xylenes (1330207) (includes o [95476], m [108383], and p [106423]) | |
| Aerospace Industries | Municipal Landfills |
| Agricultural Chemicals Production | Oil and Natural Gas Production |
| Asphalt Concrete Manufacturing | Paper and Other Webs (Surface Coating) |
| Asphalt Roofing Manufacturing | Petroleum Refineries: Other Sources Not Distinctly Listed |
| Auto and Light Duty Truck (Surface Coating) | Pharmaceuticals Production |
| Boat Manufacturing | Plywood/Particle Board Manufacturing |
| Chlorine Production | Polymers & Resins (Excluding P&R III) |
| Clay Products Manufacturing | Polymers and Resins III |
| Coke By-Product Plants | Portland Cement Manufacturing: Hazardous Waste-fired |
| Flat Wood Paneling (Surface Coating) | Portland Cement Manufacturing: Non-Hazardous Waste-fired |

Hazardous Air Pollutants and Their Associated MACT Source Categories (Continued)

| | |
|--|---|
| Friction Products Manufacturing | Primary Aluminum Production |
| Gasoline Distribution (Stage 1) | Printing/Publishing (Surface Coating) |
| Industrial Boilers | Publicly Owned Treatment Works (POTW) Emissions |
| Institutional/Commercial Boilers | Pulp and Paper Production (combustion) MACT II |
| Integrated Iron and Steel Manufacturing | Pulp and Paper Production (non-combustion) MACT I |
| Iron Foundries | Secondary Lead Smelting |
| Large Appliance (Surface Coating) | Semiconductor Manufacturing |
| Leather Tanning and Finishing Operations | Sewage Sludge Incineration |
| Marine Vessel Loading Operations | Shipbuilding and Ship Repair (Surface Coating) |
| Medical Waste Incinerators | Stationary Internal Combustion Engines |
| Metal Can (Surface Coating) | Stationary Turbines |
| Metal Coil (Surface Coating) | Steel Foundries |
| Metal Furniture (Surface Coating) | Tire Production |
| Mineral Wool Production | Utilities - Oil |
| Miscellaneous Metal Parts and Products (Surface Coating) | Vegetable Oil Production |
| MON | Wood Furniture (Surface Coating) |

APPENDIX K
EPA LIST OF PRIORITY HAPS AND
DATA REPORTING ELEMENTS

APPENDIX K

TABLE OF CONTENTS

| Section | Page |
|---|-------------|
| List of HAPs Identified by EPA as Priority HAPs | K-4 |
| HAPs Inventory Data Reporting Elements | K-6 |
| Glossary | K-8 |

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List of HAPs Identified by EPA as Priority HAPs

| HAP | CAS # |
|----------------------------|---------|
| Acetaldehyde | 75070 |
| Acrolein | 107028 |
| Acrylamide | 79061 |
| Acrylonitrile | 107131 |
| Arsenic & compounds | |
| Benzene | 71432 |
| Benzyl chloride | 100447 |
| Beryllium & compounds | |
| bis(2-ethylhexyl)phthalate | 117817 |
| 1,3-Butadiene | 106990 |
| Cadmium & compounds | |
| Carbon tetrachloride | 56235 |
| Chlorine | 7782505 |
| Chloroform | 67663 |
| Chromium & compounds | |
| Coke oven emissions | |
| 1,2-Dibromoethane | 106934 |
| 1,4-Dichlorobenzene(P) | 106467 |
| 1,2-Dichloropropane | 78875 |
| 1,3-Dichloropropene | 542756 |
| 1,4-Dioxane | 123911 |
| Ethyl acrylate | 140885 |
| Ethylene dichloride | 107062 |
| Ethylene oxide | 75218 |
| Ethylidene dichloride | 75343 |
| Formaldehyde | 50000 |
| Glycol ethers | |
| Hexachlorobenzene | 118741 |
| Hexachlorocyclopentadiene | 77474 |
| Hydrazine | 302012 |
| Hydrochloric acid | 7647010 |
| Lead & compounds | |
| Maleic anhydride | 108316 |
| Manganese & compounds | |
| Mercury & compounds | |
| Methyl bromide | 74839 |
| Methyl chloride | 74873 |

List of HAPs Identified by EPA as Priority HAPs (Continued)

| HAP | CAS # |
|---------------------------------------|--------|
| Methylene chloride | 75092 |
| MDI (methylene diphenyl diisocyanate) | 101688 |
| Nickel & compounds | |
| 2-Nitropropane | 79469 |
| Phosgene | 75445 |
| POM (PAHs)** | |
| Quinoline | 91225 |
| 2,3,7,8-TCDF/2,3,7,8-TCDD* | |
| Tetrachloroethylene | 127184 |
| Toluene | 108883 |
| Trichloroethylene | 79016 |
| Vinyl chloride | 75014 |

* Inventory as TEQ.

** Inventory as sum of 16 PAH and speciate. 16 PAH compounds include:

| | | | |
|----------------------|-------------------------|--------------------------|---------------------------|
| Acenaphthene | Benzo(a)pyrene*** | Chrysene*** | Indeno(1,2,3-cd)pyrene*** |
| Acenaphthylene | Benzo(b)fluoranthene*** | Dibenz(a,h)anthracene*** | Naphthalene |
| Anthracene | Benzo(ghi)perylene | Fluoranthene | Phenanthrene |
| Benz(a)anthracene*** | Benzo(k)fluoranthene*** | Fluorene | Pyrene |

*** These 7 PAHs are carcinogenic and are usually reported as the sum of 7 PAH.