

# **Appendix E    Overview of Air Toxics Emission Sources**

This appendix provides general information on the types of air toxics commonly associated with various types of sources. The table begins with the regulated major source categories and is followed by mobile sources, indoor sources, and miscellaneous sources. This table is not meant to be a comprehensive listing of all chemicals that may be emitted from a given source or group of sources in a particular location.



Source Name <sup>(a)</sup>	Typical Pollutants	Typical Industries (SIC)	Regulatory and Control Programs	References and Other Information
<b>Commercial / Industrial Sources</b>				
Halogenated Solvent Cleaners (1614)	methylene chloride; perchloroethylene; trichloroethylene; 1,1,1-trichloroethane; carbon tetrachloride; chloroform <sup>(c)</sup>	SIC: 33, 34, 36, 37 NAICS: 332, 333, 334, 335, 336, 447	MACT/GACT, see 40 CFR Part 63 Subpart T	U.S. EPA. 1995. <i>Profile of the Iron and Steel Industry</i> . Office of Compliance Sector Notebook Project, Washington, D.C., September 1995. EPA/310-R-95-005. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/iron.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/iron.html</a>
Acetal Resins Production (1301)		SIC: 2869 NAICS: 325199	MACT, see 40 CFR Part 63 YY (General MACT)	U.S. EPA. 1997. <i>Profile of the Plastic Resins and Man-made Fibers Industry</i> . Office of Compliance Sector Notebook Project, Washington, D.C., September 1997. EPA/310-R-97-008. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/plastic.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/plastic.html</a>
Acrylic/Modacrylic Fibers Production (1001)		SIC: 2869 NAICS: 325199	MACT, see 40 CFR Part 63 YY	U.S. EPA. 1997. <i>Profile of the Plastic Resins and Man-made Fibers Industry</i> . Office of Compliance Sector Notebook Project, Washington, D.C., September 1997. EPA/310-R-97-008. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/plastic.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/plastic.html</a>

Source Name <sup>(a)</sup>	Typical Pollutants	Typical Industries (SIC)	Regulatory and Control Programs	References and Other Information
Acrylonitrile-Butadiene-Styrene Production (1302)	styrene; acrylonitrile; butadiene; ethylene glycol; methanol; acetaldehyde; dioxane	SIC: 2821, 2822 NAICS: 325211, 325212	MACT, see 40 CFR Part 63 JJJ	U.S. EPA. 2001. <i>Polymers and Resins IV Inspection Tool</i> . Adopt-a-MACT Compliance Tool, Washington, D.C., September 2001. Available at: <a href="http://www.epa.gov/ttn/atw/pr4/privinspect.html">http://www.epa.gov/ttn/atw/pr4/privinspect.html</a> USEPA. 1997. <i>Profile of the Plastic Resins and Man-made Fibers Industry</i> . Office of Compliance Sector Notebook Project, Washington, D.C., September 1997. EPA/310-R-97-008. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/plastic.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/plastic.html</a>
Aerospace Industries (0701)	chromium; cadmium; methylene; chloride; toluene; xylene; methyl ethyl ketone; ethylene glycol; glycol ethers	SIC: 3720, 3721, 3724, 3728, 3760, 3761, 3764, 3769 NAICS: 336411, 336412, 336413, 336414, 336419, 481111, 481112	MACT, see 40 CFR Part 63 Subpart GG	U.S. EPA. 1998. <i>Profile of the Aerospace Industry</i> . Office of Compliance Sector Notebook Project, Washington, D.C., November 1998. EPA/310-R-98-001. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/aerospace.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/aerospace.html</a>
Amino/Phenolic Resins Production (1347)	formaldehyde, methanol, phenol, xylene, toluene	SIC: 2821 NAICS: 325211	MACT, see 40 CFR Part 63 Subpart OOO	U.S. EPA. 1997. <i>Profile of the Plastic Resins and Man-made Fibers Industry</i> . Office of Compliance Sector Notebook Project, Washington, D.C., September 1997. EPA/310-R-97-006. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/plastic.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/plastic.html</a> U.S. EPA. 1998. <i>Hazardous Air Pollutant Emissions from the Manufacture of Amino and Phenolic Resins: Basis and Purpose Document for Proposed Standards</i> . Emission Standards Division, Washington, D.C., May 1998. Available at: <a href="http://www.epa.gov/ttn/atw/amino/p_r3bpd.wpd">http://www.epa.gov/ttn/atw/amino/p_r3bpd.wpd</a>

Source Name <sup>(a)</sup>	Typical Pollutants	Typical Industries (SIC)	Regulatory and Control Programs	References and Other Information
Ammonium Sulfate - Caprolactam By-Product Plants (1401)	toluene; methanol; xylene; methyl ethyl ketone; ethyl benzene; methyl isobutyl ketone; hydrogen chloride; vinyl acetate	NAICS: 3251, 3252, 3253, 3254, 3255, 3256, 3259	MACT, see 40 CFR Part 63 Subpart FFFF	U.S. EPA. 2002. <i>Profile of the Organic Chemical Industry</i> . Office of Compliance Sector Notebook Project, Washington, D.C., November 2002. EPA/310-R-02-001. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/organic.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/organic.html</a>
Asphalt Roofing and Processing (0418)	formaldehyde; hexane; hydrogen chloride; phenol; polycyclic organic matter; toluene	SIC: 2911, 2952 NAICS: 32411, 324122	MACT, see 40 CFR Part 63 Subpart LLLLL	U.S. EPA. 1995. <i>Profile of the Stone, Clay, Glass and Concrete Industry</i> . Office of Compliance Sector Notebook Project, Washington, D.C., September 1995. EPA/310-R-95-017. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/stone.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/stone.html</a>

Source Name <sup>(a)</sup>	Typical Pollutants	Typical Industries (SIC)	Regulatory and Control Programs	References and Other Information
Asphalt/Coal Tar Application - Metal Pipes (0402)	xylenes; toluene; methyl ethyl ketone; phenol; cresols/cresylic acid; glycol ethers (including ethylene glycol monobutyl ether); styrene; methyl isobutyl ketone; ethyl benzene	NAICS: 335312, 336111, 336211, 336312, 33632, 33633, 33634, 33637, 336399, 331316, 331524, 332321, 332323, 33312, 333611, 333618, 332312, 332722, 332813, 332991, 332999, 334119, 336413, 339999, 33612, 336211, 331319, 331422, 335929, 332311, 33242, 81131, 322214, 326199, 331513, 332439, 331111, 331513, 33121, 331221, 331511, 33651, 336611, 482111, 3369, 331316, 336991, 336211, 336112, 336213, 336214, 336399, 326291, 326299, 332311, 332312, 336212, 336999, 33635, 56121, 8111, 56211	MACT, see 40 CFR Part 63 Subpart Mmmm	<p>U.S. EPA. 1995. <i>Profile of the Fabricated Metal Products Industry</i>. Office of the Compliance Sector Notebook Project, Washington, D.C., September 1995. EPA/310-R-95-007. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/fabric.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/fabric.html</a></p> <p>U.S. EPA. 1995. <i>Profile of the Stone, Clay, Glass and Concrete Industry</i>. Office of Compliance Sector Notebook Project, Washington, D.C., September 1995. EPA/310-R-95-017. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/stone.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/stone.html</a></p>

Source Name <sup>(a)</sup>	Typical Pollutants	Typical Industries (SIC)	Regulatory and Control Programs	References and Other Information
Auto & Light Duty Truck (Surface Coating) (0702)	toluene; xylene; glycol ethers; methyl ethyl ketone; methyl isobutyl ketone; ethylbenzene; methanol	NAICS: 336111, 336112, 336211	MACT, see 40 CFR Part 63 Subpart III	<p>U.S. EPA. 1995. <i>Profile of the Motor Vehicle Assembly Industry</i>. Office of Compliance Sector Notebook Project, Washington, D.C., September 1995. EPA/310-R-95-009. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/motor.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/motor.html</a></p> <p>U.S. EPA. 2002. <i>Regulatory Impact Analysis for the Proposed Automobile and Light Duty Truck Coating NESHAP</i>. Final Report, Washington, D.C., October 2002. EPA-452/R-01-013. Available at: <a href="http://www.epa.gov/ttn/atw/auto/autoriap.pdf">http://www.epa.gov/ttn/atw/auto/autoriap.pdf</a></p> <p>U.S. EPA. 1997. <i>U.S. Auto Assembly Plants and Their Communities -- Environmental, Economic, and Demographic Profile</i>. Common Sense Initiative Automobile Manufacturing Sector. Washington, D.C., December 1997. Available at: <a href="http://www.epa.gov/oar/opar/auto/">http://www.epa.gov/oar/opar/auto/</a></p>
Boat Manufacturing (1305)	styrene; methyl methacrylate; methylene chloride (dichloromethane); toluene; xylene; n-hexane; methyl ethyl ketone; methyl isobutyl ketone; methyl chloroform (1,1,1-trichloroethane)	SIC: 3731, 3732 NAICS: 336612	MACT, see 40 CFR Part 63 Subpart VVVV	<p>U.S. EPA. 1997. <i>Profile of the Shipbuilding and Repair Industry</i>. Office of Compliance Sector Notebook Project. Washington, D.C., November 1997. EPA/310-R-97-008. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/ship.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/ship.html</a></p>

Source Name <sup>(a)</sup>	Typical Pollutants	Typical Industries (SIC)	Regulatory and Control Programs	References and Other Information
Brick and Structural Clay Products Manufacturing (0414)	hydrogen fluoride; hydrogen chloride; antimony; arsenic; beryllium; cadmium; chromium; cobalt; mercury; manganese; nickel; lead; selenium	SIC: 3251, 3253, 3259 NAICS: 327121, 327122, 327123	MACT, see 40 CFR Part 63 Subpart JJJJ	U.S. EPA. 1995. <i>Profile of the Stone, Clay, Glass and Concrete Industry</i> . Office of Compliance Sector Notebook Project. Washington, D.C., September 1995. EPA/310-R-95-017. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/stone.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/stone.html</a>
Butyl Rubber Production (1307)	n-hexane; 1,3-butadiene; acrylonitrile; methyl chloride; hydrogen chloride; carbon tetrachloride; chloroprene; toluene	SIC: 2821, 2822 NAICS: 325211, 325212	MACT, see 40 CFR Part 63 Subpart U	U.S. EPA. 1995. <i>Profile of the Rubber and Plastics Industry</i> . Office of Compliance Sector Notebook Project, Washington, D.C., September 1995. EPA/310-R-95-016. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/rubber.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/rubber.html</a>
Carbon Black Production (1415)	cyanide compounds; acrylonitrile; acetonitrile; carbonyl sulfide; carbon disulfide; benzene; 1,3 butadiene; toluene; 2,4 toluene diisocyanate	SIC: 2895 NAICS: 325182	General MACT, see 40 CFR Part 63 YY	U.S. EPA. 2002. <i>Profile of the Organic Chemical Industry</i> . Office of Compliance Sector Notebook Project, Washington, D.C., November 2002. EPA/310-R-02-001. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/organic.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/organic.html</a>
Carbonyl Sulfide (COS) Production (1604)	toluene; methanol; xylene; hydrogen chloride; methylene chloride	NAICS: 3251, 3252, 3253, 3254, 3255, 3256, 3259	MACT, see 40 CFR Part 63 FFFF  (General MACT)	U.S. EPA. 2002. <i>Profile of the Organic Chemical Industry, Second Edition (2002)</i> . Office of Compliance Sector Notebook Project, Washington, D.C., November 2002. EPA/310-R-02-001. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/organic.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/organic.html</a>

Source Name <sup>(a)</sup>	Typical Pollutants	Typical Industries (SIC)	Regulatory and Control Programs	References and Other Information
Cellulose Products Manufacturing (1349)	carbon disulfide; carbonyl sulfide; ethylene oxide; methanol; methyl chloride; propylene oxide; toluene	SIC: 2819, 2821, 2823, 2869, 3089 NAICS: 325188, 325199, 325211, 325221, 326121, 326199	MACT, see 40 CFR Part 63 UUUU	U.S. EPA. 2002. Profile of the Pulp and Paper Industry, 2nd Edition. Office of Compliance Sector Notebook Project, Washington, D.C., November 2002. EPA/310-R-02-002. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/pulp.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/pulp.html</a>  U.S. EPA. 1997. <i>Profile of the Plastic Resins and Man-made Fibers Industry</i> . Office of Compliance Sector Notebook Project, Washington, D.C., September 1997. EPA/310-R-97-008. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/plastic.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/plastic.html</a>
Mercury Cell Chlor-Alkali Plants (Formerly Chlorine Production)		SIC: chlorine 2812	EPA proposes not to regulate chlorine and hydrochloric acid (HCl) emissions for the Chlorine Production source category.	U.S. EPA. 1995. <i>Profile of the Inorganic Chemical Industry</i> . Office of Compliance Sector Notebook Project, Washington, D.C., September 1995. EPA/310-R-95-004. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/inorganic.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/inorganic.html</a>
Chromic Acid Anodizing (1607)	chromium	NAICS: 332, 333, 334, 335, 336	MACT, see 40 CFR Part 63 Subpart N	U.S. EPA. 1993. <i>Chromium Emissions from Chromium Electroplating and Chromic Acid Anodizing Operations</i> . Background Information for Proposed Standards, Washington, D.C., July 1993. EPA 453/R-93-030a and EPA 453/r-93-030b, Volumes 1 and 2. Available at: <a href="http://www.epa.gov/ttn/atw/chrome/chromepg.html">http://www.epa.gov/ttn/atw/chrome/chromepg.html</a>

Source Name <sup>(a)</sup>	Typical Pollutants	Typical Industries (SIC)	Regulatory and Control Programs	References and Other Information
Clay Ceramics Manufacturing (0415)	hydrogen flouride; hydrogen chloride; antimony; arsenic; beryllium; cadmium; chromium; cobalt; mercury; manganese; nickel; lead; selenium	SIC: 3253, 3261 NAICS: 327122, 327111	MACT, see 40 CFR Part 63 Subpart KKKKK	U.S. EPA. 1995. <i>Profile of the Stone, Clay, Glass and Concrete Industry</i> . Office of Compliance Sector Notebook Project. Washington, D.C., September 1995. EPA/310-R-95-017. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/stone.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/stone.html</a>
Coke Ovens: Charging, Top Side, and Door Leaks (0302)	coal tar (benzene, toluene, and xylene); creosote; coal tar pitch; polycyclic aromatic hydrocarbons (benzo(a)pyrene, benzanthracene, chrysene, phenanthrene)	NAICS: 331111, 324199	MACT, see 40 CFR Part 63 Subpart L	U.S. EPA. 1995. <i>Profile of the Petroleum Refining Industry</i> . Office of Compliance, Sector Notebook Project. Washington, D.C., September 1995. EPA/310-R-95-013. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/petroleum.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/petroleum.html</a>
Coke Ovens: Pushing, Quenching, & Battery Stacks (0303)	polycyclic organic matter; polynuclear aromatic hydrocarbons; benzene; toluene; xylene	NAICS: 331111, 324199	MACT, see 40 CFR Part 63 Subpart CCCCC	U.S. EPA. 1995. <i>Profile of the Petroleum Refining Industry</i> . Office of Compliance, Sector Notebook Project. Washington, D.C., September 1995. EPA/310-R-95-013. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/petroleum.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/petroleum.html</a>
Commercial Sterilization Facilities (1609)	ethylene oxide	NAICS: 3391	MACT, see 40 CFR Part 63 Subpart O	U.S. EPA. 1997. <i>Ethylene Oxide Commercial Sterilization and Fumigation Operations</i> . NESHAP Implementation Document. Washington, D.C., September, 1997. EPA-456/R-004. Available at: <a href="http://www.epa.gov/ttn/atw/eo/eoguide.pdf">http://www.epa.gov/ttn/atw/eo/eoguide.pdf</a>

Source Name <sup>(a)</sup>	Typical Pollutants	Typical Industries (SIC)	Regulatory and Control Programs	References and Other Information
Cyanide Chemicals Manufacturing (1405)	cyanide compounds; acrylonitrile; acetonitrile; carbonyl sulfide; carbon disulfide; benzene; 1,3 butadiene; toluene; 2,4 toluene diisocyanate	SIC: 2819, 2869 NAICS: 325188, 325199	MACT, see 40 CFR Part 63 YY  (General MACT)	
Decorative Chromium Electroplating (1610)	chromium	NAICS: 332, 333, 334, 335, 336	MACT, see 40 CFR Part 63 Subpart N	
Dry Cleaning: Perchloroethylene (1643)	perchloroethylene	NAICS: 8123	MACT, see 40 CFR Part 63 Subpart M	U.S. EPA. 1995. <i>Profile of the Dry Cleaning Industry</i> . Office of Compliance Sector Notebook Project, Washington, D.C., September 1995. EPA/310-R-95-001. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/dry.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/dry.html</a>

Source Name <sup>(a)</sup>	Typical Pollutants	Typical Industries (SIC)	Regulatory and Control Programs	References and Other Information
Engine Test Facilities (0101)	toluene; benzene; mixed xylenes; 1,3-butadiene	SIC: 3511, 3519, 3523, 3524, 3531, 3559, 3566, 3599, 3621, 3711, 3714, 3721, 3724, 3761, 3764, 4226, 4512, 4581, 5541, 7538, 7539, 7699, 8299, 8711, 8731, 8734, 8741, 9661, 9711 NAICS: 54171, 92711, 92811, 332212, 333111, 333112, 333120, 333319, 333611, 333612, 333618, 335312, 336111, 336112, 336120, 336312, 336350, 336399, 336411, 336412, 336414, 336415, 336992, 481111, 488190, 541380, 611692, 811111, 811118, 811310, 811411	MACT, see 40 CFR Part 63 Subpart P P P P P	
Epichlorohydrin Elastomers Production (1311)	n-hexane; 1,3-butadiene; acrylonitrile; methyl chloride; hydrogen chloride; carbon tetrachloride; chloroprene; toluene	SIC: 2821, 2822 NAICS: 325211, 325212	MACT, see 40 CFR Part 63 Subpart U	

Source Name <sup>(a)</sup>	Typical Pollutants	Typical Industries (SIC)	Regulatory and Control Programs	References and Other Information
Epoxy Resins Production (1312)	epichlorohydrin, methanol, hydrochloric acid	SIC: 2821, 2823, 2824	MACT, see 40 CFR Part 63 Subpart W	U.S. EPA. 1997. <i>Profile of the Plastic Resins and Man-made Fibers Industry</i> . Office of Compliance Sector Notebook Project, Washington, DC, September 1997. EPA/310-R-97-008. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/plastic.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/plastic.html</a>
Ethylene Processes (1635)	cyanide compounds; acrylonitrile; acetonitrile; carbonyl sulfide; carbon disulfide; benzene; 1,3 butadiene; toluene; 2,4 toluene diisocyanate	SIC: 2869 NAICS: 325110	MACT, see 40 CFR Part 63 YY	U.S. EPA. 1997. <i>Profile of the Plastic Resins and Man-made Fibers Industry</i> . Office of Compliance Sector Notebook Project, Washington, DC. EPA/310-R-97-006. <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/plastic.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/plastic.html</a>
Ethylene-Propylene Rubber Production (1313)	n-hexane; 1,3-butadiene; acrylonitrile; methyl chloride; hydrogen chloride; carbon tetrachloride; chloroprene; toluene	SIC: 2821, 2822 NAICS: 325211, 325212	MACT, see 40 CFR Part 63 Subpart U	U.S. EPA. 1995. <i>Profile of the Rubber and Plastics Industry</i> . Office of Compliance Sector Notebook Project, Washington, DC, September 1995. EPA/310-R-95-016. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/rubber.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/rubber.html</a>
Ferroalloys Production (0304)	ferromanganese; silicomanganese; nickel compounds	SIC: 3313	MACT, see 40 CFR Part 63 Subpart XXX	
Flexible Polyurethane Foam Fabrication Operations (1341)	hydrochloric acid; 2,4-toluene diisocyanate; hydrogen cyanide; methylene chloride	SIC: 3086 NAICS: 32615	MACT, see 40 CFR Part 63 Subpart M MMMM	U.S. EPA. 1995. <i>Profile of the Wood Furniture and Fixtures Industry</i> . Office of Compliance Sector Notebook Project, Washington, D.C., September 1995. EPA/310-R-95-003. <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/wood.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/wood.html</a>

Source Name <sup>(a)</sup>	Typical Pollutants	Typical Industries (SIC)	Regulatory and Control Programs	References and Other Information
Flexible Polyurethane Foam Production (1314)	methylene chloride; 2,4-toluene diisocyanate; methyl chloroform; methylene diphenyl diisocyanate; propylene oxide; diethanolamine; methyl ethyl ketone; methanol; toluene	SIC: 3086 NAICS: 32615	MACT, see 40 CFR Part 63 Subpart III	U.S. EPA. 1995. Profile of the Wood Furniture and Fixtures Industry. Office of Compliance Sector Notebook Project, Washington, D.C., September 1995. EPA/310-R-95-003. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/wood.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/wood.html</a>
Friction Products Manufacturing (1636)	n-hexane; toluene; trichloroethylene	NAICS: 33634, 327999, 333613	MACT, see 40 CFR Part 63 QQQQ	
Fumed Silica Production (1406)	hydrochloric acid; chlorine	SIC: 2819, 2821, 2869 NAICS: 325188, 325211, 325199	MACT, see 40 CFR Part 63 Subpart NNNNN	
Gasoline Distribution (Stage I) (0601)	benzene; toluene; hexane; ethyl benzene; naphthalene; cumene; xylenes; n-hexane; 2, 2, 4-trimethylpentane; methyl tert-butyl ether	SIC: 2911, 4226, 4613, 5171 NAICS: 324110, 493190, 486910, 422710	MACT, see 40 CFR Part 63 Subpart R	U.S. EPA. 1995. <i>Profile of the Petroleum Refining Industry</i> . Office of Compliance Sector Notebook Project, Washington, D.C., September 1995. EPA/310-R-95-013. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/petroleum.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/petroleum.html</a> .
Hard Chromium Electroplating (1615)	chromium	NAICS: 332, 333, 334, 335, 336	MACT, see 40 CFR Part 63 Subpart N	

Source Name <sup>(a)</sup>	Typical Pollutants	Typical Industries (SIC)	Regulatory and Control Programs	References and Other Information
Hazardous Waste Incineration (0801)	chlorinated dioxins and furans; particulate matter (as a surrogate for antimony, cobalt, manganese, nickel, and selenium); carbon monoxide; mercury; lead; cadmium; arsenic; beryllium; chromium; hydrogen chloride and chlorine gas (combined); hydrocarbons		MACT, see 40 CFR Parts 63, 261 and 270	U.S. EPA. <i>Hazardous Waste Combustion NESHAP Toolkit</i> . Available at: <a href="http://www.epa.gov/epaoswer/hazwaste/com-bust/toolkit/index.htm">http://www.epa.gov/epaoswer/hazwaste/com-bust/toolkit/index.htm</a>
Hydrochloric Acid Production (1407)	hydrochloric acid; chlorine	SIC: 2819, 2821, 2869 NAICS: 325188, 325211, 325199	MACT, see 40 CFR Part 63 Subpart NNNNN	None found at this writing.
Hydrogen Fluoride Production (1409)		SIC: 2819 NAICS: 325188	MACT, see 40 CFR Part 63 YY  (General MACT)	U.S. EPA. <i>Profile of the Plastic Resins and Man-made Fibers Industry</i> . Office of Compliance Sector Notebook Project, Washington, D.C., September 1997. EPA/310-R-97-006 . Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/plastic.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/plastic.html</a>
Hypalon (TM) Production (1315)	n-hexane; 1,3-butadiene; acrylonitrile; methyl chloride; hydrogen chloride; carbon tetrachloride; chloroprene; toluene	SIC: 2821, 2822 NAICS: 325211, 325212	MACT, see 40 CFR Part 63 Subpart U	None found at this writing.

Source Name <sup>(a)</sup>	Typical Pollutants	Typical Industries (SIC)	Regulatory and Control Programs	References and Other Information
Industrial/Commercial/Institutional Boilers & Process Heaters (0107)	arsenic; cadmium; chromium; hydrogen chloride; hydrogen fluoride; lead; manganese; mercury; nickel	SIC: 13, 24, 26, 28, 29, 30, 33, 34, 37, 49, 80, 82 NAICS: 211, 221, 316, 321, 322, 324, 325, 326, 331, 332, 336, 339, 611, 622	MACT, see 40 CFR Part 63 Subpart DDDDD	U.S. EPA. 1999. <i>Profile of Oil and Gas Extraction Industry</i> . Office of Compliance Sector Notebook Project, Washington, D.C., October 2000. EPA/310-R-99-006. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/oil.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/oil.html</a> .  Also see <i>Profile of Lumber and Wood Products Industry</i> , <i>Profile of Organic and Inorganic Chemical Manufacturing Industry</i> , <i>Profile of Petroleum Refining Industry</i> , and <i>Profile of Rubber and Plastic Industry</i> . Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/index.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/index.html</a>
Industrial Cooling Towers (1619)	chromium compounds		MACT, see 40 CFR Part 63 Subpart Q	U.S. EPA. 1995. <i>Profile of the Petroleum Refining Industry</i> . Office of Compliance, Sector Notebook Project. Washington, D.C., September 1995. EPA/310-R-95-013. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/petroleum.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/petroleum.html</a>  U.S. EPA. 2001. <i>Profile of the Organic Chemical Industry</i> . Office of Compliance Assistance and Sector Programs Division. Washington, D.C., September 2001. EPA/310/R-02-001. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/organic.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/organic.html</a>

Source Name <sup>(a)</sup>	Typical Pollutants	Typical Industries (SIC)	Regulatory and Control Programs	References and Other Information
Integrated Iron & Steel Manufacturing (0305)	metals (primarily manganese and lead); polycyclic organic matter; benzene; carbon disulfide	SIC: 3312 NAICS: 331111	MACT, see 40 CFR Part 63 Subpart FFFFF	U.S. EPA. 1995. <i>Profile of the Iron and Steel Industry</i> . Office of Compliance Sector Notebook Project, Washington, D.C., September 1995. EPA/310-R-95-005. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/iron.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/iron.html</a>
Iron Foundries (0308)	lead; manganese; cadmium; chromium; nickel; acetophenone; benzene; cumene; dibenzo furans; dioxins; formaldehyde; methanol; naphthalene; phenol; pyrene; toluene; triethylamine; xylene	NAICS: 331511	MACT, see 40 CFR Part 63 Subpart EEEEE	U.S. EPA. 1995. <i>Profile of the Iron and Steel Industry</i> . Office of Compliance Sector Notebook Project, Washington, D.C., September 1995. EPA/310-R-95-005. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/iron.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/iron.html</a>
Large Appliance (Surface Coating) (0704)	glycol ethers; methylene diphenyl diisocyanate; methyl ethyl ketone; toluene; xylene	NAICS: 333312, 333319, 333415, 335221, 335222, 335224, 335228	MACT, see 40 CFR Part 63 Subpart NNNN	U.S. EPA. 1995. <i>Profile of the Dry Cleaning Industry</i> . Office of Compliance Sector Notebook Project, Washington, D.C., September 1995. EPA/310-R-95-001. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/dry.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/dry.html</a>
Leather Tanning & Finishing Operations (1634)	glycol ethers; toluene; xylene	SIC: 3111 NAICS: 3161	MACT, see 40 CFR Part 63 Subpart TTTT	None found as of this writing

Source Name <sup>(a)</sup>	Typical Pollutants	Typical Industries (SIC)	Regulatory and Control Programs	References and Other Information
Light Weight Aggregate Manufacturing (0417)	toluene; methanol; methyl ethyl ketone; xylenes; phenol; methylene chloride; ethylene glycol; glycol ethers; hexane; methyl isobutyl ketone; cresols and cresylic acid; dimethylformamide; vinyl acetate; formaldehyde; ethyl benzene	NAICS: 322211, 322212, 322221, 322222, 322223, 322224, 322225, 322226, 322299, 323111, 323116, 325992, 326111, 326112, 326113, 32613, 326192, 32791, 332999, 339944	See MACT in 40 CFR Part 63 Subpart JJJJ	None found as of this writing
Lime Manufacturing (0408)	hydrogen chloride; antimony; arsenic; beryllium; cadmium; chromium; lead; manganese; mercury; nickel; selenium	NAICS: 32741, 33111, 3314	MACT, see 40 CFR Part 63 Subpart AAAAA	None found at this writing.
Magnetic Tapes (Surface Coating) (0705)	methyl ethyl ketone; toluene; methyl isobutyl ketone; toluene diisocyanate; ethylene glycol; methanol; xylenes; ethyl benzene; acetaldehyde; chromium; cobalt	SIC: 3695, 2675	MACT, see 40 CFR Part 63 Subpart EE	
Manufacture of Nutritional Yeast (1101)	acetaldehyde	SIC: 2099 NAICS: 311999	MACT, see 40 CFR Part 63 Subpart CCCC	

Source Name <sup>(a)</sup>	Typical Pollutants	Typical Industries (SIC)	Regulatory and Control Programs	References and Other Information
Marine Vessel Loading Operations (0603)	benzene; toluene; hexane		MACT, see 40 CFR Part 63 Subpart Y	U.S. EPA. 1997. <i>Profile of the Water Transportation Industry (Shipping and Barging)</i> . Office of Compliance Sector Notebook Project, Washington, D.C., September 1997. EPA/310-R-97-003. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/water.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/water.html</a>
Metal Can (Surface Coating) (0707)	ethylene glycol monobutyl ether; other glycol ethers; xylenes; hexane; methyl isobutyl ketone; methyl ethyl ketone	NAICS: 332115, 332116, 332431, 332812, 332999	MACT, see 40 CFR Part 63 Subpart KKKK	U.S. EPA. 1995. <i>Profile of the Metal Fabrication Industry</i> . Office of Compliance Sector Notebook Project, Washington, D.C., September 1995. EPA/310-R-95-007. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/fabric.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/fabric.html</a>
Metal Coil (Surface Coating) (0708)	methyl ethyl ketone; glycol ethers; xylenes (isomers and mixtures); toluene; isophorone.	SIC: 34 NAICS: 332812, 331319, 332312, 332322, 332323, 332311, 33637, 332813, 332999, 333293, 336399, 325992, 42183, 323122, 339991, 326113, 32613, 32614, 331112, 331221, 33121, 331312, 331314, 331315	MACT, see 40 CFR Part 63 Subpart SSSS	U.S. EPA. 1995. <i>Profile of the Metal Fabrication Industry</i> . Office of Compliance Sector Notebook Project, Washington, D.C., September 1995. EPA/310-R-95-007. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/fabric.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/fabric.html</a>

Source Name <sup>(a)</sup>	Typical Pollutants	Typical Industries (SIC)	Regulatory and Control Programs	References and Other Information
Metal Furniture (Surface Coating) (0709)	xylene; toluene; ethylene glycol monobutyl ether; other glycol ethers; ethylbenzene; methyl ethyl ketone	NAICS: 81142, 337124, 337127, 337214, 337215, 339111	MACT, see 40 CFR Part 63 Subpart RRRR	U.S. EPA. 1995. <i>Profile of the Metal Fabrication Industry</i> . Office of Compliance Sector Notebook Project, Washington, D.C., September 1995. EPA/310-R-95-007. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/fabric.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/fabric.html</a>
Methyl Methacrylate-Acrylonitrile-Butadiene-Styrene Production (1317)	styrene; acrylonitrile; butadiene; ethylene glycol; methanol; acetaldehyde; dioxane	SIC: 2821, 2822 NAICS: 325211, 325212	MACT, see 40 CFR Part 63 JJJ	U.S. EPA. 2001. <i>Polymers and Resins IV Inspection Tool</i> . Adopt-a-MACT Compliance Tool, Washington, D.C., September 2001. Available at: <a href="http://www.epa.gov/ttn/atw/pr4/privinspect.html">http://www.epa.gov/ttn/atw/pr4/privinspect.html</a>
Methyl Methacrylate-Butadiene-Styrene Terpolymers Production (1318)	styrene; acrylonitrile; butadiene; ethylene glycol; methanol; acetaldehyde; dioxane	SIC: 2821, 2822 NAICS: 325211, 325212	MACT, see 40 CFR Part 63 JJJ	U.S. EPA. 2001. <i>Polymers and Resins IV Inspection Tool</i> . Adopt-a-MACT Compliance Tool, Washington, D.C., September 2001. Available at: <a href="http://www.epa.gov/ttn/atw/pr4/privinspect.html">http://www.epa.gov/ttn/atw/pr4/privinspect.html</a>
Mineral Wool Production (0409)	carbonyl sulfide; nine hazardous metals; formaldehyde; phenol	SIC: 3296	MACT, see 40 CFR Part 63 DDD	
Miscellaneous Coatings Manufacturing (1642)	toluene; xylene; glycol ethers; methyl ethyl ketone, and methyl isobutyl ketone	NAICS: 3255	MACT, see 40 CFR Part 63 Subpart HHHHH	U.S. EPA. 1995. <i>Profile of the Metal Fabrication Industry</i> . Office of Compliance Sector Notebook Project. Washington, D.C., September 1995. EPA/310-R-95-007. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/fabric.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/fabric.html</a>

Source Name <sup>(a)</sup>	Typical Pollutants	Typical Industries (SIC)	Regulatory and Control Programs	References and Other Information
Miscellaneous Metal Parts & Products (Surface Coating) (0710)	xylene; toluene; methyl ethyl ketone; phenol; cresols/cresylic acid; 2-butoxyethanol; styrene; methyl isobutyl ketone; ethyl benzene; glycol ethers	NAICS: 335312, 336111, 336211, 336312, 33632, 33633, 33634, 33637, 336399, 331316, 331524, 332321, 332323, 33312, 333611, 333618, 332312, 332722, 332813, 332991, 332999, 334119, 336413, 339999, 33612, 336211, 331319, 331422, 335929, 332311, 33242, 81131, 322214, 326199, 331513, 332439, 331111, 331513, 33121, 331221, 331511, 33651, 336611, 482111, 3369, 331316, 336991, 336211, 336112, 336213, 336214, 336399, 326291, 326299, 332311, 332312, 336212, 336999, 33635, 56121, 8111, 56211	MACT, see 40 CFR Part 63 Subpart Mmmm	U.S. EPA. 1995. <i>Profile of the Metal Fabrication Industry</i> . Office of Compliance Sector Notebook Project. Washington, D.C., September 1995. EPA/310-R-95-007. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/fabric.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/fabric.html</a>

Source Name <sup>(a)</sup>	Typical Pollutants	Typical Industries (SIC)	Regulatory and Control Programs	References and Other Information
Miscellaneous Organic Chemical Products & Processes (1641)	toluene; methanol; xylene; methyl ethyl ketone; ethyl benzene; methyl isobutyl ketone; hydrogen chloride; vinyl acetate	NAICS: 3251, 3252, 3253, 3254, 3255, 3256, 3259	MACT, see 40 CFR Part 63 Subpart FFFF	U.S. EPA. 2002. <i>Profile of the Organic Chemical Industry, 2<sup>nd</sup> Edition</i> . Office of Compliance Sector Notebook Project. Washington, DC., November 2002. EPA/310-R-02-001. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/organic.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/organic.html</a> .
Municipal Landfills (0802)	vinyl chloride; ethyl benzene; toluene; benzene	SIC: 4953, 9511 NAICS: 562212, 924110	MACT, see 40 CFR Part 63 Subpart AAAA	None found as of this writing
Natural Gas Transmission & Storage (0504)	benzene; toluene; ethyl benzene; mixed xylenes; n-hexane	SIC: 40,42,46, 49, 1321 NAICS: 211112 Note: Condensate tank batteries, glycol dehydration units, natural gas processing plants, and natural gas transmission and storage facilities not included.	MACT, see 40 CFR Part 63 Subpart HHH	U.S. EPA. 1997. <i>Profile of the Ground Transportation Industry - Railroad, Trucking, and Pipeline</i> . Office of Compliance Sector Notebook Project, Washington, D.C., September 1997. EPA/310-R-97-002. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/ground.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/ground.html</a> .
Neoprene Production (1320)	n-hexane; 1,3-butadiene; acrylonitrile; methyl chloride; hydrogen chloride; carbon tetrachloride; chloroprene; toluene	SIC: 2821, 2822 NAICS: 325211, 325212	MACT, see 40 CFR Part 63 Subpart U	U.S. EPA. 1997. <i>Profile of Plastic Resins and Man-Made Fibers Industry</i> . Office of Compliance Sector Notebook Project, Washington, D.C., September 1997. EPA/310-R-97-006. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/plastic.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/plastic.html</a> .

Source Name <sup>(a)</sup>	Typical Pollutants	Typical Industries (SIC)	Regulatory and Control Programs	References and Other Information
Nitrile Butadiene Rubber Production (1321)	n-hexane; 1,3-butadiene; acrylonitrile; methyl chloride; hydrogen chloride; carbon tetrachloride; chloroprene; toluene	SIC: 2821, 2822 NAICS: 325211, 325212	MACT, see 40 CFR Part 63 Subpart U	U.S. EPA. 1995. <i>Profile of the Rubber and Plastic Industry</i> . Office of Compliance Sector Notebook Project, Washington, D.C., September 1995. EPA/310-R-95-016. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/rubber.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/rubber.html</a>
Nitrile Resins Production (1342)	Styrene, n-hexane, 1,3-butadiene, acrylonitrile, methyl chloride, hydrogen chloride, carbon tetrachloride, chloroprene, toluene		MACT, see 40 CFR Part 63 Subpart U	U.S. EPA. 1997. <i>Profile of Plastic Resins and Man-Made Fibers Industry</i> . Office of Compliance Sector Notebook Project, Washington, D.C., September 1997. EPA/310-R-97-006. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/plastic.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/plastic.html</a>
Off-Site Waste and Recovery Operations (0806)	benzene, methylene chloride		MACT, see 40 CFR Part 63 Subpart DD	None found at this writing.
Oil & Natural Gas Production (0501)	benzene; toluene; ethyl benzene; mixed xylenes; n-hexane	SIC: 1311, 1321, 1381, 1382, 1389 NAICS: 211112 (Condensate tank batteries, glycol dehydration units, natural gas processing plants, and natural gas transmission and storage facilities.)	MACT, see 40 CFR Part 63 HH	U.S. EPA. 1999. <i>Profile of the Oil and Gas Extraction Industry</i> . Office of Compliance Sector Notebook Project, Washington, D.C. EPA/310-R-99-006. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/oil.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/oil.html</a>

Source Name <sup>(a)</sup>	Typical Pollutants	Typical Industries (SIC)	Regulatory and Control Programs	References and Other Information
Organic Liquids Distribution (Non-Gasoline) (0602)	benzene; ethylbenzene; toluene; vinyl chloride; xylenes	SIC: 2821, 2865, 2869, 2911, 4226, 4612, 5169, 5171 NAICS: 325211, 325192, 325188, 32411, 49311, 49319, 48611, 42269, 42271	MACT, see 40 CFR Part 63 Subpart EEEE	<p>U.S. EPA. 1997. <i>Profile of the Ground Transportation Industry - Railroad, Trucking and Pipeline</i>. Office of Compliance Sector Notebook Project. Washington, D.C., September 1997. EPA/310-R-97-002.  <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/ground.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/ground.html</a></p> <p>U.S. EPA. 1995. <i>Profile of the Petroleum Refining Industry</i>. Office of Compliance Sector Notebook Project. Washington, D.C., September 1995. EPA/310-R-95-013. Available at:  <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/petroleum.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/petroleum.html</a></p> <p>U.S. EPA. 2002. <i>Organic Chemical Manufacturing Industry</i>. Office of Compliance Sector Notebook Project. Washington, D.C., November 2002. EPA/310-R-02-001. Available at:  <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/organic.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/organic.html</a></p>

Source Name <sup>(a)</sup>	Typical Pollutants	Typical Industries (SIC)	Regulatory and Control Programs	References and Other Information
Paper & Other Webs (Surface Coating) (0711)	toluene; methanol; methyl ethyl ketone; xylenes; phenol; methylene chloride; ethylene glycol; glycol ethers; hexane; methyl isobutyl ketone; cresols and cresylic acid; dimethylformamide; vinyl acetate; formaldehyde; ethyl benzene	NAICS: 322211, 322212, 322221, 322222, 322223, 322224, 322225, 322226, 322299, 323111, 323116, 325992, 326111, 326112, 326113, 32613, 326192, 32791, 332999, 339944	MACT, see 40 CFR Part 63 JJJJ	MACT Sources: Profile of the Pulp and Paper Industry, 2nd Edition (2002). <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/pulp.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/pulp.html</a>
Pesticide Active Ingredient Production (0911)	toluene; methanol; methyl chloride; hydrogen chloride	SIC: 2869, 2879 NAICS: 32532, 325199	MACT, see 40 CFR Part 63 MMM	U.S. EPA. 2000. <i>Profile of the Agricultural Chemical, Pesticide, and Fertilizer Industry</i> . Office of Compliance Sector Notebook Project, Washington, D.C., September 2000. EPA/310-R-00-003. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/chemical.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/chemical.html</a>
Petroleum Refineries - Catalytic Cracking, Catalytic Reforming, & Sulfur Plant Units (0502)	hydrogen fluoride; hydrogen chloride; 2,2,4-trimethylpentane; methyl tert butyl ether; benzene; naphthalene; cresols/cresylic acid; phenol; ethylbenzene; toluene; hexane; xylenes; methyl ethyl ketone	SIC: 2911	MACT, see 40 CFR Part 63 Subpart CC	U.S. EPA. 1995. <i>Profile of the Petroleum Refining Industry</i> . Office of Compliance Sector Notebook Project, Washington, D.C., September 1995. EPA/310-R-95-013. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/petroleum.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/petroleum.html</a>

Source Name <sup>(a)</sup>	Typical Pollutants	Typical Industries (SIC)	Regulatory and Control Programs	References and Other Information
Petroleum Refineries - Other Sources Not Distinctly Listed (0503)	benzene, toluene, ethyl benzene, 2,2,4-trimethylpentane, cresols/cresylic acid, ethylbenzene, hexane, methyl ethyl ketone	SIC: 2911	MACT, see 40 CFR Part 63 Subpart CC	U.S. EPA. 1995. <i>Profile of the Petroleum Refining Industry</i> . Office of Compliance Sector Notebook Project. Washington, D.C., September 1995. EPA/310-R-95-013. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/petroleum.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/petroleum.html</a> .
Pharmaceuticals Production (1201)	methylene chloride; methanol; toluene; hydrogen chloride; dimethylformamide; hexane	SIC: 2833, 2834 NAICS: 32541, 325412	MACT, see 40 CFR Part 63 GGG	U.S. EPA. 1997. <i>Profile of the Pharmaceutical Industry</i> . Office of Compliance Sector Notebook Project. Washington, D.C., September 1997. EPA/310-R-97-005. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/pharmaceutical.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/pharmaceutical.html</a>
Phosphate Fertilizers Production (1410)	hydrogen fluoride; arsenic; beryllium; cadmium; chromium; manganese; mercury; nickel; methyl isobutyl ketone	SIC: 2874 NAICS: 325314	MACT, see 40 CFR Part 63 BB	U.S. EPA. 2000. <i>Profile of the Agricultural Chemical, Pesticide, and Fertilizer Industry</i> . Office of Compliance Sector Notebook Project. Washington, D.C., September 2000. EPA/310-R-00-003. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/chemical.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/chemical.html</a>
Phosphoric Acid Manufacturing (1411)	hydrogen fluoride; arsenic; beryllium; cadmium; chromium; manganese; mercury; nickel; methyl isobutyl ketone	SIC: 2874 NAICS: 325314	MACT, see 40 CFR Part 63 AA	U.S. EPA. 2000. <i>Profile of the Agricultural Chemical, Pesticide, and Fertilizer Industry</i> . Office of Compliance Sector Notebook Project. Washington, D.C., September 2000. EPA/310-R-00-003. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/chemical.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/chemical.html</a>

Source Name <sup>(a)</sup>	Typical Pollutants	Typical Industries (SIC)	Regulatory and Control Programs	References and Other Information
Plastic Parts & Products (Surface Coating) (0712)	methyl ethyl ketone; methyl isobutyl ketone; toluene; ethylene glycol monobutyl ether; other glycol ethers; xylenes	NAICS: 32615, 32614, 33422, 33992, 326199, 333313, 336211, 336212, 336213, 336214, 336399, 336999, 337214, 339111, 339112, 339999	MACT, see 40 CFR Part 63 Subpart PPPP	U.S. EPA. 1995. <i>Profile of the Motor Vehicle Assembly Industry</i> . Office of Compliance Sector Notebook Project. Washington, D.C., September 1995. EPA/310-R-95-009. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/motor.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/motor.html</a>
Plywood and Composite Wood Products (1624)	acetaldehyde; acrolein; formaldehyde; methanol; phenol; propionaldehyde	SIC: 2421, 2435, 2436, 2439, 2493 NAICS: 321211, 321212, 321213, 321219, 321999	MACT, see 40 CFR Part 63 Subpart DDDD	The Plywood and Composite Wood Products MACT was proposed on January 9, 2003. The comment period ended on March 10, 2003. The final rule will most likely be promulgated in March 2004, with a compliance date of March 2007.
Polybutadiene Rubber Production (1325)	styrene; n-hexane; 1,3- butadiene; acrylonitrile; methyl chloride; hydrogen chloride; carbon tetrachloride; chloroprene; toluene	SIC: 2821, 2822 NAICS: 325211, 325212	MACT, see 40 CFR Part 63 Subpart U	U.S. EPA. 1995. <i>Profile of the Rubber and Plastic Industry</i> . Office of Compliance Sector Notebook Project. Washington, D.C., September 1995. EPA/310-R-95-016. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/rubber.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/rubber.html</a>
Polycarbonates Production (1326)	TOC, organic HAPs	SIC: 2869 NAICS: 325199	MACT, see 40 CFR Part 63 YY (Generic MACT)	U.S. EPA. 1997. <i>Profile of the Plastic Resins and Man-made Fibers Industry</i> . Office of Compliance Sector Notebook Project. Washington, D.C., September 1997. EPA/310-R-97-006. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/plastic.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/plastic.html</a>
Polyether Polyols Production (1625)	ethylene oxide; propylene oxide; hexane; toluene	SIC: 2843, 2869 NAICS: 325199, 325613	MACT, see 40 CFR Part 63 PPP	None found at this writing.

Source Name <sup>(a)</sup>	Typical Pollutants	Typical Industries (SIC)	Regulatory and Control Programs	References and Other Information
Polyethylene Terephthalate Production (1328)	styrene; acrylonitrile; butadiene; ethylene glycol; methanol; acetaldehyde; dioxane	SIC: 2821, 2822 NAICS: 325211, 325212	MACT, see 40 CFR Part 63 JJJ	U.S. EPA. 2001. <i>Polymers and Resins IV Inspection Tool</i> . Adopt-a-MACT Compliance Tool, Washington, D.C., September 2001. Available at: <a href="http://www.epa.gov/ttn/atw/pr4/privinspect.html">http://www.epa.gov/ttn/atw/pr4/privinspect.html</a>
Polystyrene Production (1331)	styrene; acrylonitrile; butadiene; ethylene glycol; methanol; acetaldehyde; dioxane	SIC: 2821, 2822 NAICS: 325211, 325212	MACT, see 40 CFR Part 63 JJJ	U.S. EPA. 2001. <i>Polymers and Resins IV Inspection Tool</i> . Adopt-a-MACT Compliance Tool, Washington, D.C., September 2001. Available at: <a href="http://www.epa.gov/ttn/atw/pr4/privinspect.html">http://www.epa.gov/ttn/atw/pr4/privinspect.html</a>
Polysulfide Rubber Production (1332)	styrene; n-hexane; 1,3- butadiene; acrylonitrile; methyl chloride; hydrogen chloride; carbon tetrachloride; chloroprene; toluene	SIC: 30	MACT, see 40 CFR Part 63 Subpart U	U.S. EPA. 1995. <i>Profile of the Rubber and Plastic Industry</i> . Office of Compliance Sector Notebook Project. Washington, D.C., September 1995. EPA/310-R-95-016. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/rubber.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/rubber.html</a>
Polyvinyl Chloride & Copolymers Production (1336)	vinyl chloride; vinylidene chloride (1,1 dichloroethylene); vinyl acetate	SIC: 2821 NAICS: 325211	MACT, see 40 CFR Part 63 J	None found as of this writing

Source Name <sup>(a)</sup>	Typical Pollutants	Typical Industries (SIC)	Regulatory and Control Programs	References and Other Information
Portland Cement Manufacturing (0410)	acetaldehyde; arsenic; benzene; cadmium; chromium; chlorobenzene; dibenzo furans; formaldehyde; hexane; hydrogen chloride; lead; manganese; mercury; naphthalene; nickel; phenol; polycyclic organic matter; selenium; styrene; 2,3,7,8-tetrachlorodibenzo-p-dioxin; toluene; xylenes	SIC: 3241 NAICS: 32731	MACT, see 40 CFR Part 63 Subpart LLL	U.S. EPA. 1995. <i>Profile of the Stone, Clay, Glass and Concrete Industry</i> . Office of Compliance Sector Notebook Project. Washington, D.C., September 1995. EPA/310-R-95-017. <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/stone.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/stone.html</a>
Primary Aluminum Production (0201)	hydrogen flouride; polycyclic aromatic hydrocarbons	NAICS: 331312	MACT, see 40 CFR Part 63 Subpart LL	U.S. EPA. 1995. <i>Profile of the Nonferrous Metals Industry</i> . Office of Compliance Sector Notebook Project. Washington, D.C., September 1995. EPA/310-R-95-010. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/nonferrous.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/nonferrous.html</a>
Primary Copper Smelting (0203)	antimony; arsenic; beryllium; cadmium; cobalt; lead; manganese; nickel; selenium	SIC: 3339	MACT, see 40 CFR Part 63 Subpart QQQ	None found at this writing.
Primary Lead Smelting (0204)	arsenic; antimony; cadmium	SIC: 3339	MACT, see 40 CFR Part 63 Subpart TTT	None found at this writing.
Primary Magnesium Refining (0207)	chlorine; hydrochloric acid; dioxin/furan; trace amounts of several HAP metals	NAICS: 331419	MACT, see 40 CFR Part 63 Subpart TTTTT	None found at this writing.

Source Name <sup>(a)</sup>	Typical Pollutants	Typical Industries (SIC)	Regulatory and Control Programs	References and Other Information
Printing, Coating & Dyeing Of Fabrics (0713)	toluene; methyl ethyl ketone; methanol; xylenes; methyl isobutyl ketone; methylene chloride; n-hexane; trichloroethylene; n,n-dimethyl formamide.; 1,1,1-trichloroethane; naphthalene; ethyl benzene; glycol ethers (ethylene glycol); biphenyl; styrene	NAICS: 31321, 31322, 313241, NAICS: 313311, 313312, 313320, 314110	MACT, see 40 CFR Part 63 Subpart OOOO	U.S. EPA. 1997. <i>Profile of the Textiles Industry</i> . Office of Compliance Sector Notebook Project, Washington, D.C., September 1997. EPA/310-R-97-009. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/textiles.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/textiles.html</a>
Printing/Publishing (Surface Coating) (0714)	xylene; toluene; ethylbenzene; methyl ethyl ketone; methyl isobutyl ketone; methanol; ethylene glycol; certain glycol ethers	SIC: 2671, 2711, 2721, 2754, 2759	MACT, see 40 CFR Part 63 Subpart KK	U.S. EPA. 1995. <i>Profile of the Printing Industry</i> . Office of Compliance Sector Notebook Project, Washington, D.C., September 1995. EPA/310-R-95-014. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/printing.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/printing.html</a>
Publicly Owned Treatment Works (POTW) Emissions (0803)	xylenes; methylene chloride; toluene; ethyl benzene; chloroform; tetrachloroethylene; benzene; naphthalene	SIC: 4952 NAICS: 22132	MACT, see 40 CFR Part 63 Subpart VVV	None found at this writing.
Pulp & Paper Production - Combustion (Kraft, Soda, Sulfite, & Semi-Chemical) (1626-2)		SIC: 2611, 2621, 2631 NAICS: 32211, 32212, 32213	MACT, see 40 CFR Part 63 Subpart S	U.S. EPA. 2002. <i>Profile of the Pulp and Paper Industry, 2nd Edition</i> . Office of Compliance Sector Notebook Project, Washington, D.C., November 2002. EPA/310-R-95-015. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/pulp.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/pulp.html</a>

Source Name <sup>(a)</sup>	Typical Pollutants	Typical Industries (SIC)	Regulatory and Control Programs	References and Other Information
Pulp & Paper Production - Non-Combustion (1626-1)		SIC 26	MACT, see 40 CFR Part 63 Subpart S	U.S. EPA. 2002. <i>Profile of the Pulp and Paper Industry, 2nd Edition</i> . Office of Compliance Sector Notebook Project, Washington, D.C., November 2002. EPA/310-R-95-015. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/pulp.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/pulp.html</a>
Refractories Products Manufacturing (0406)	ethylene glycol; formaldehyde; hydrogen fluoride; hydrochloric acid; methanol; phenol; polycyclic organic matter	NAICS: 327124, 327125	MACT, see 40 CFR Part 63 Subpart SSSSS	None found at this writing.
Reinforced Plastic Composites Production (1337)	styrene; methyl methacrylate; methylene chloride (dichloromethane)	SIC: 2821, 3084, 3087, 3088, 3089, 3281, 3296, 3431, 3531, 3612, 3613, 3621, 3663, 3711, 3713, 3714, 3716, 3728, 3743, 3792, 3799 NAICS: 33312, 33612, 33651, 33653, 35313, 325211, 325991, 326122, 326191, 327991, 327993, 332998, 333422, 335311, 335312, 336112, 336211, 336213, 336214, 336399, 336413	MACT, see 40 CFR Part 63 Subpart WWWW	None found at this writing.

Source Name <sup>(a)</sup>	Typical Pollutants	Typical Industries (SIC)	Regulatory and Control Programs	References and Other Information
Rocket Engine Test Firing (1627)	toluene, benzene, mixed xylenes, 1,3-butadiene	SIC: 3724, 3761, 3764, 9661, 9711 NAICS: 336412, 336414, 336415, 54171, 92711, 92811	MACT, see 40 CFR Part 63 Subpart P P P P P	U.S. EPA. 1997. <i>Profile of the Air Transportation Industry</i> . Office of Compliance Sector Notebook Project, Washington, D.C., February 1998. EPA/310-R-97-001. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/air.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/air.html</a>
Rubber Tire Production (1631)	toluene; hexane	SIC: 2296, 3011, 7534 NAICS: 314992, 326211, 326212	MACT, see 40 CFR Part 63 Subpart X X X X	U.S. EPA. <i>Profile of the Rubber and Plastic Industry</i> . Office of Compliance Sector Notebook Project, Washington, D.C., September 1995. EPA/310-R-95-016. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/rubber.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/rubber.html</a>
Secondary Aluminum Production (0202)	hydrogen chloride, hydrogen fluoride, chlorine, 2,3,7,8-tetrachlorodibenzo-p-dioxin, organic HAPs, particulate HAP metals	SIC: 3341, 3334, 3353, 3354, 3355, 3363, 3365 NAICS: 331314, 331312, 331315, 331316, 331319, 331521, 331524	MACT, see 40 CFR Part 63 Subpart R R R	None found at this writing.
Secondary Lead Smelting (0205)	lead compounds; arsenic compounds; 1,3-butadiene	NAICS: 331492	MACT, see 40 CFR Part 63 Subpart X	None found at this writing.
Semiconductor Manufacturing (1629)	hydrochloric acid; hydrogen fluoride; methanol; glycol ethers; xylene	SIC: 3674 NAICS: 334413	MACT, see 40 CFR Part 63 Subpart B B B B B	U.S. EPA. 2001. <i>National Emission Standards for Hazardous Air Pollutants: Semiconductor Manufacturing-Background Information for Proposed Standards</i> . Office of Air Quality Planning and Standards, Research Triangle Park, NC, February 2001. Available at: <a href="http://www.epa.gov/ttn/atw/semicon/smatr_bid.pdf">http://www.epa.gov/ttn/atw/semicon/smatr_bid.pdf</a>

Source Name <sup>(a)</sup>	Typical Pollutants	Typical Industries (SIC)	Regulatory and Control Programs	References and Other Information
Shipbuilding & Ship Repair (Surface Coating) (0715)	xylene; toluene; ethylbenzene; methyl ethyl ketone; methyl isobutyl ketone; ethylene glycol; glycol ethers	SIC: 3731	MACT, see 40 CFR Part 63 Subpart II	U.S. EPA. 1997. <i>Profile of the Shipbuilding and Repair Industry</i> . Office of Compliance Sector Notebook Project, Washington, D.C., November 1997. EPA/310-R-97-008. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/ship.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/ship.html</a>
Site Remediation (0805)	benzene; ethyl benzene; toluene; vinyl chloride; xylenes; other volatile organic compounds	NAICS: 325211, 325192, 325188, 32411, 49311, 49319, 48611, 42269, 42271	MACT, see 40 CFR Part 63 Subpart GGGGG	
Solvent Extraction for Vegetable Oil Production (1103)	n-hexane	SIC: 2076, 2079 NAICS: 311223	MACT, see 40 CFR Part 63 Subpart GGGG	None found at this writing.
Spandex Production (1003)	cyanide compounds; acrylonitrile; acetonitrile; carbonyl sulfide; carbon disulfide; benzene; 1,3 butadiene; toluene; 2,4 toluene diisocyanate	SIC: 2824 NAICS: 325222	MACT, see 40 CFR Part 63 YY	U.S. EPA. 1997. <i>Profile of the Plastic Resins and Man-made Fibers Industry</i> . Office of Compliance Sector Notebook Project, Washington, D.C., September 1997. EPA/310-R-97-006. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/plastic.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/plastic.html</a>
Stationary Combustion Turbines (0108)	formaldehyde; toluene; benzene; acetaldehyde	SIC: 1311, 1321, 4911, 4922, 4931 NAICS: 221, 2211, 211111, 211112, 486210	MACT, see 40 CFR Part 63 YYYY	
Stationary Reciprocal Internal Combustion Engines (0105)	formaldehyde; acrolein; methanol; acetaldehyde	SIC: 1311, 1321, 4911, 4922, 9711 NAICS: 2211, 48621, 92811, 211111, 211112	MACT, see 40 CFR Part 63 Subpart ZZZZ	

Source Name <sup>(a)</sup>	Typical Pollutants	Typical Industries (SIC)	Regulatory and Control Programs	References and Other Information
Steel Pickling - HCL Process (0310)	hydrochloric acid	SIC: 3312, 3315, 3317	MACT, see 40 CFR Part 63 Subpart CCC	
Styrene Acrylonitrile Production (1338)	styrene; acrylonitrile; butadiene; ethylene glycol; methanol; acetaldehyde; dioxane	SIC: 2821, 2822 NAICS: 325211, 325212	MACT, see 40 CFR Part 63 JJJ	U.S. EPA. 2001. <i>Polymers and Resins IV Inspection Tool</i> . Adopt-a-MACT Compliance Tool, Washington, D.C., September 2001. Available at: <a href="http://www.epa.gov/ttn/atw/pr4/privinspect.html">http://www.epa.gov/ttn/atw/pr4/privinspect.html</a>
Styrene-Butadiene Rubber & Latex Production (1339)	styrene; n-hexane; 1,3- butadiene; acrylonitrile; methyl chloride; hydrogen chloride; carbon tetrachloride; chloroprene; toluene	SIC: 2821, 2822 NAICS: 325211, 325212	MACT, see 40 CFR Part 63 Subpart U	U.S. EPA. 1995. <i>Profile of the Rubber and Plastic Industry</i> . Office of Compliance Sector Notebook Program, Washington, D.C., September 1995. EPA/310-R-95-016. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/rubber.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/rubber.html</a>
Synthetic Organic Chemical Manufacturing (HON) (1501)	toluene, methanol, xylene, hydrogen chloride, and methylene chloride	NAICS: 3251, 3252, 3253, 3254, 3255, 3256, 3259	MACT, see 40 CFR Part 63 Subpart FFFF and Miscellaneous Organic NESHAP	
Taconite Iron Ore Processing (0411)	metal compounds (such as manganese, arsenic, lead, nickel, chromium, and mercury); products of incomplete combustion (including formaldehyde); hydrogen chloride; hydrogen fluoride	NAICS: 21221	MACT, see 40 CFR Part 63 Subpart RRRRR	None found at this writing.

Source Name <sup>(a)</sup>	Typical Pollutants	Typical Industries (SIC)	Regulatory and Control Programs	References and Other Information
Utility Boilers: Coal (1808-1)	arsenic; cadmium; chromium; hydrogen chloride; hydrogen fluoride; lead; manganese; mercury; nickel	SIC: 29 NAICS: 324	See 40 CFR Part 63 Subpart DDDDD	None found at this writing.
Utility Boilers: Natural Gas (1808-2)	arsenic; cadmium; chromium; hydrogen chloride; hydrogen fluoride; lead; manganese; mercury; nickel	SIC: 13, 49 NAICS: 211, 221	See 40 CFR Part 63 Subpart DDDDD	None found at this writing.
Utility Boilers: Oil (1808-3)	arsenic; cadmium; chromium; hydrogen chloride; hydrogen fluoride; lead; manganese; mercury; nickel	SIC: 24, 29 NAICS: 321, 324	See 40 CFR Part 63 Subpart DDDDD	None found at this writing.
Wet-Formed Fiberglass Mat Production (0413)	formaldehyde; methanol; vinyl acetate	SIC: 3229325 NAICS: 327212	MACT, see 40 CFR Part 63 Subpart HHHH	None found at this writing.
Wood Building Products (Surface Coating) (0703)	xylenes; toluene; ethyl benzene; ethylene glycol monobutyl ether; other glycol ethers; methyl ethyl ketone; methyl isobutyl ketone; methanol; styrene; formaldehyde	SIC: 2421, 2426, 2431, 2435, 2436, 2493, 2499 NAICS: 321211, 321212, 321219, 321911, 321918, 321999 Note: The subcategory of the SIC and NAICS code depends on the final end use of the product.	MACT, see 40 CFR Part 63 Subpart QQQQ	U.S. EPA. 1995. <i>Profile of the Wood Furniture and Fixtures Industry</i> . Office of Compliance Sector Notebook Project, Washington, D.C., September 1995. EPA/310-R-95-003. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/wood.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/wood.html</a>

Source Name <sup>(a)</sup>	Typical Pollutants	Typical Industries (SIC)	Regulatory and Control Programs	References and Other Information
Wood Furniture (Surface Coating) (0716)	toluene; xylene; methanol; methyl ethyl ketone; methyl isobutyl ketone; glycol ethers; formaldehyde	SIC: 2511, 2512, 2517, 2519, 2521, 2531, 2541	MACT, see 40 CFR Part 63 Subpart JJ	U.S. EPA. 1995. <i>Profile of the Wood Furniture and Fixtures Industry</i> . Office of Compliance Sector Notebook Project, Washington, D.C., September 1995. EPA/310-R-95-003. Available at: <a href="http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/wood.html">http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/wood.html</a>
Wool Fiberglass Manufacturing (0412)	arsenic, chromium, lead, formaldehyde, phenol, and methanol	SIC: 3296	MACT, see 40 CFR Part 63 Subpart NNN	None found at this writing.
<b>Mobile Sources</b>				
Mobile sources	acetaldehyde, acrolein, arsenic compounds, benzene, 1,3-butadiene, chromium compounds, diesel particulate matter, diesel exhaust organic gases, dioxin/ furans, ethylbenzene, formaldehyde, n-hexane, lead compounds, manganese compounds, mercury compounds, MTBE, naphthalene, nickel compounds, polycyclic organic matter, styrene, toluene, xylene	N/A	Various, see <a href="http://www.epa.gov/otaq/">http://www.epa.gov/otaq/</a>	EPA's Office of Transportation Air Quality provides information on mobile source air toxics at <a href="http://www.epa.gov/otaq/toxics.htm">http://www.epa.gov/otaq/toxics.htm</a>  In-depth information on diesel engine exhaust can be found at <a href="http://cfpub.epa.gov/ncea/cfm/recordisplay.cfm?deid=29060&amp;CFID=12048081&amp;CFTOKEN=92457493">http://cfpub.epa.gov/ncea/cfm/recordisplay.cfm?deid=29060&amp;CFID=12048081&amp;CFTOKEN=92457493</a>  The Health Effects Institute is an independent, nonprofit corporation chartered in 1980 to provide high-quality, impartial, and relevant science on the health effects of pollutants from motor vehicles and from other sources in the environment (see <a href="http://www.healtheffects.org">www.healtheffects.org</a> ).

Source Name <sup>(a)</sup>	Typical Pollutants	Typical Industries (SIC)	Regulatory and Control Programs	References and Other Information
<b>Indoor Sources</b>				
Tobacco smoke	Many, including benzene, toluene, formaldehyde, acrolein, N-nitrosdimethylamine, polycyclic organic matter, methyl chloride, 1,3-butadiene, phenol, catechol, hydroquinone, aniline, o-toluidine, quinoline, polychlorinated dibenzo-p-dioxins, nickel, cadmium, polonium-210	N/A	Voluntary programs to protect children from the effects of secondhand smoke	U.S. EPA. 1992. <i>Respiratory Health Effects of Passive Smoking: Lung Cancer and Other Disorders</i> . Office of Research and Development and Office of Air and Radiation, Washington, D.C., December 1992. EPA/600/6-90/006F. Available at: <a href="http://cfpub.epa.gov/ncea/cfm/recordisplay.cfm?deid=2835">http://cfpub.epa.gov/ncea/cfm/recordisplay.cfm?deid=2835</a>  Smoke-Free Homes Campaign: <a href="http://www.epa.gov/smokefree/">http://www.epa.gov/smokefree/</a>
Consumer and commercial products	Many organic chemicals and metals, including benzene, toluene, xylenes, aldehydes and ketones, chlorinated solvents, ethylene glycol and glycol ethers, phthalates, pesticides	N/A	Voluntary programs to control exposures/risks	Sources of VOCs indoors: <a href="http://www.epa.gov/iaq/voc.html">http://www.epa.gov/iaq/voc.html</a>  Pesticides: <a href="http://www.epa.gov/iaq/pesticid.html">http://www.epa.gov/iaq/pesticid.html</a>

Source Name <sup>(a)</sup>	Typical Pollutants	Typical Industries (SIC)	Regulatory and Control Programs	References and Other Information
Building materials	Many, including formaldehyde from pressed wood products; chemicals (see consumer and commercial products) from caulks and sealants, paints and wall coverings, floor coverings, etc.; and asbestos and lead in older buildings	N/A	Voluntary programs to control exposures/risks	Formaldehyde: <a href="http://www.epa.gov/iaq/formalde.html">http://www.epa.gov/iaq/formalde.html</a>  Asbestos: <a href="http://www.epa.gov/asbestos/ashome.html">http://www.epa.gov/asbestos/ashome.html</a>  Lead: <a href="http://www.epa.gov/iaq/lead.html">http://www.epa.gov/iaq/lead.html</a>
Natural Sources				
Forest fires	Various volatile and semivolatile organic compounds (e.g., dioxins, PAHs)	N/A	No federal programs currently exist	See tables 32-34 in: <a href="http://www.epa.gov/ttn/chief/ap42/ch13/related/firept.pdf">http://www.epa.gov/ttn/chief/ap42/ch13/related/firept.pdf</a> . Also see the documentation for the Preliminary 2002 National Emissions Inventory (NEI), pages A58-A70: <a href="ftp://ftp.epa.gov/pub/EmisInventory/prelim2002nei/nonpoint/documentation/2002prelimneinonpt_032004.pdf">ftp://ftp.epa.gov/pub/EmisInventory/prelim2002nei/nonpoint/documentation/2002prelimneinonpt_032004.pdf</a> , and and the 1999 final NEI, (pages A56-A60: <a href="ftp://ftp.epa.gov/EmisInventory/finalnei99ver3/haps/documentation/nonpoint/nonpt99ver3_aug2003.pdf">ftp://ftp.epa.gov/EmisInventory/finalnei99ver3/haps/documentation/nonpoint/nonpt99ver3_aug2003.pdf</a>
Radon	radon	N/A	Voluntary programs to control exposures/risks	Radon in indoor air: <a href="http://www.epa.gov/radon">http://www.epa.gov/radon</a>

Source Name <sup>(a)</sup>	Typical Pollutants	Typical Industries (SIC)	Regulatory and Control Programs	References and Other Information
<b>Other Sources</b>				
Long-range transport	aldrin, chlordane, DDT, dieldrin, dioxins and furans, endrin, mirex, heptachlor, hexachlorobenzene, mercury, PCBs, toxaphene	N/A	N/A	<p>Information on mercury as a global pollutant can be found on the United Nations Environment Programme website, which also provides in-depth information and assessment of the issue of global mercury (see <a href="http://www.chem.unep.ch/mercury/">http://www.chem.unep.ch/mercury/</a>).</p> <p>General information about the health and environmental impacts of persistent organic pollutants (POPs) can be found at <a href="http://www.epa.gov/international/toxics/brochure.html">http://www.epa.gov/international/toxics/brochure.html</a>. This site describes what actions the United States and some other countries have already taken to address these pollutants, and to describe the actions set into motion by the Stockholm Convention on POPs to address this issue globally. More in-depth information on global POPs can be found in <i>The Foundation for Global Action on Persistent Organic Pollutants: a United States Perspective</i>, Office of Research and Development, U.S. EPA, Research Triangle Park, NC, EPA/600/P-01/003F, 2002 (<a href="http://cfpub.epa.gov/ncea/cfm/recordisplay.cfm?deid=51746">http://cfpub.epa.gov/ncea/cfm/recordisplay.cfm?deid=51746</a>). General reference websites with information on the issue of long range transport are EPA's Great Lakes National Program Office (GLNPO; <a href="http://www.epa.gov/glnpo/">www.epa.gov/glnpo/</a>), the Binational Toxics Strategy (<a href="http://www.epa.gov/glnpo/bns/">www.epa.gov/glnpo/bns/</a>), and the Arctic Monitoring and Assessment Programme (<a href="http://www.amap.no/">http://www.amap.no/</a>).</p>

Source Name <sup>(a)</sup>	Typical Pollutants	Typical Industries (SIC)	Regulatory and Control Programs	References and Other Information
<p><sup>(a)</sup> HAP Source Category names are followed by MACT source category codes used for source classification in the National Toxics Inventory (see <a href="http://www.epa.gov/ttn/chief/codes/index.html#mact">http://www.epa.gov/ttn/chief/codes/index.html#mact</a>). Except for mobile and natural sources, and sources of indoor air toxics, the table does not include sources of criteria pollutants and TRI chemicals that are not also MACT HAP sources.</p>				
<p><sup>(b)</sup> Very limited information is available about emissions and risks associated with the many non-HAP compounds used in solvent cleanings since the MACT rule was promulgated. These compounds are not listed in the table.</p>				
<p><sup>(c)</sup> The estimate of air toxics emissions from halogenated solvent cleaning is from background analyses conducted for the MACT rule. The estimate is based on estimates and assumptions about the national number of cleaning machines, the types of cleaning machines and processes in use, control equipment and work practice standards in use before and after the MACT rule, solvents used and solvent use rates, and emissions factors for the various machine types and control equipment combinations. A sample of MACT compliance reports collected from states and EPA regions for a residual risk assessment suggest that (1) the population of cleaning machines estimated for the MACT rule may have been substantially overestimated and/or (2) many cleaning machines have been removed from service or changed to solvents not covered by the MACT.</p>				