

MSDS # 791.00

# Xylene

**Section 1: Product and Company Identification****Xylene****Synonyms/General Names:** Dimethylbenzene, Xylol**Product Use:** For educational use only**Manufacturer:** Columbus Chemical Industries, Inc., Columbus, WI 53925.**24 Hour Emergency Information Telephone Numbers****CHEMTREC (USA): 800-424-9300****CANUTEC (Canada): 613-424-6666**

ScholarAR Chemistry; 5100 W. Henrietta Rd, Rochester, NY 14586; (866) 260-0501; www.Scholarchemistry.com

**Section 2: Hazards Identification***Colorless liquid; benzene-like odor.***WARNING!** Flammable liquid, moderately toxic by ingestion and inhalation.

Flammable liquid, keep away from all ignition sources.

Target organs: Liver, kidneys, heart, auditory system.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**HMIS (0 to 4)**

<b>Health</b>	<b>2</b>
<b>Fire Hazard</b>	<b>3</b>
<b>Reactivity</b>	<b>0</b>

**Section 3: Composition / Information on Ingredients**

Xylene (1330-20-7), 100%

**Section 4: First Aid Measures***Always seek professional medical attention after first aid measures are provided.***Eyes:** Immediately flush eyes with excess water for 15 minutes, lifting lower and upper eyelids occasionally.**Skin:** Immediately flush skin with excess water for 15 minutes while removing contaminated clothing.**Ingestion:** Call Poison Control immediately. **Aspiration hazard.** Rinse mouth with cold water. Give victim 1-2 tbsp of activated charcoal mixed with 8 oz water.**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration.**Section 5: Fire Fighting Measures**

IB Flammable Liquid. When heated to decomposition, emits acrid fumes

**Protective equipment and precautions for firefighters:** Use foam or dry chemical to extinguish fire.

Firefighters should wear full fire fighting turn-out gear and respiratory protection (SCBA). Cool container with water spray. Material is not sensitive to mechanical impact. Material is sensitive to static discharge.

**Section 6: Accidental Release Measures**

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Remove all ignition sources and ventilate area. Contain spill with sand or absorbent material and place material in a sealed bag or container for disposal. Wash spill area after pickup is complete. See Section 13 for disposal information.

**Section 7: Handling and Storage****Red****Handling:** Use with adequate ventilation and do not breathe dust or vapor. Avoid contact with skin, eyes, or clothing. Wash hands thoroughly after handling.**Storage:** Store in Flammable Area [Red Storage] with other flammable materials and away from any strong oxidizers. Store in a dedicated flammables cabinet. Store in a cool, dry, well-ventilated, locked store room away from incompatible materials.**Section 8: Exposure Controls / Personal Protection**Use ventilation to keep airborne concentrations below exposure limits. Have approved eyewash facility, safety shower, and fire extinguishers readily available. Wear chemical splash goggles and chemical resistant clothing such as gloves and aprons. Wash hands thoroughly after handling material and before eating or drinking. Use NIOSH-approved respirator with an acid/organic cartridge. Exposure guidelines: Toluene: OSHA PEL: 200 ppm, ACGIH TLV: 188 mg/m<sup>3</sup>, STEL: 300 mg/m<sup>3</sup>.

**Section 9: Physical and Chemical Properties**

<b>Molecular formula</b>	C <sub>6</sub> H <sub>4</sub> (CH <sub>3</sub> ) <sub>2</sub> .	<b>Appearance</b>	Colorless liquid.
<b>Molecular weight</b>	106.17.	<b>Odor</b>	Benzene-like odor .
<b>Specific Gravity</b>	0.865 g/mL @ 20°C.	<b>Odor Threshold</b>	N/A.
<b>Vapor Density (air=1)</b>	3.1.	<b>Solubility</b>	Acetone, alcohol, ether.
<b>Melting Point</b>	-25 °C.	<b>Evaporation rate</b>	1.9 (Butyl acetate = 1).
<b>Boiling Point/Range</b>	136°C.	<b>Partition Coefficient</b>	N/A. (log P <sub>ow</sub> ).
<b>Vapor Pressure (20°C)</b>	22 mm Hg.	<b>pH</b>	N/A.
<b>Flash Point:</b>	25°C (77°F) CC.	<b>LEL</b>	1.1%.
<b>Autoignition Temp.:</b>	464°C (896°F).	<b>UEL</b>	7.0%.

N/A = Not available or applicable

**Section 10: Stability and Reactivity**

Avoid heat and ignition sources.

**Stability:** Stable under normal conditions of use.**Incompatibility:** Oxidizing materials, organic materials, acids.**Shelf life:** Indefinite shelf life, store in a cool, dry environment.**Section 11: Toxicology Information**

**Acute Symptoms/Signs of exposure:** *Eyes:* Stinging pain, watering of eyes, inflammation of eyelids and conjunctivitis. *Skin:* Insensitivity to pain, feel of coolness or cold, skin looks white and feels hard and cold. *Ingestion:* Breath has sweet, organic odor, mental confusion, drowsiness, nausea, vomiting and headache. *Inhalation:* Rapid irregular breathing, headache, fatigue, mental confusion, nausea and vomiting, giddiness and poor judgment, convulsions and death.

**Chronic Effects:** Repeated/prolonged skin contact may cause dryness or rashes.**Sensitization:** none expected*Xylene: LD50 [oral, rat]; 4300 mg/kg; LC50 [rat]; 500 ppm; LD50 Dermal [rabbit]; >1700 mg/24H MOD**Material has been found to be a carcinogen [IARC, Group 2B] and produce genetic, reproductive, or developmental effects.***Section 12: Ecological Information****Ecotoxicity (aquatic and terrestrial):** Ecological impact has not been determined.**Section 13: Disposal Considerations**

Check with all applicable local, regional, and national laws and regulations. Local regulations may be more stringent than regional or national regulations. Use a licensed chemical waste disposal firm for proper disposal.

**Section 14: Transport Information**

<b>DOT Shipping Name:</b>	Xylenes.	<b>Canada TDG:</b>	Xylenes.
<b>DOT Hazard Class:</b>	3, pg III.	<b>Hazard Class:</b>	3, pg III.
<b>Identification Number:</b>	UN1307.	<b>UN Number:</b>	UN1307.

**Section 15: Regulatory Information****EINECS:** Listed (203-625-9) .**WHMIS Canada:** B2, D2A, D2B: Flammable liquid, Very Toxic Material.**TSCA:** All components are listed or are exempt.**California Proposition 65:** Listed as cancer causing.

*The product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.*

**Section 16: Other Information****Current Issue Date:** January 23, 2009

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