

MATERIAL SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

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SECTION 1

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Product Class:	Petroleum Solvent	Manufacturer's Code:	822
Trade Name:	XYLENE (XYLOL)	NPCA HMIS:	Health: 2 Flammability: 3 Reactivity: 0
		NPCA: 704	Health: 2 Flammability: 3 Reactivity: 0

Product Appearance and Odor: Clear, water-white liquid; aromatic hydrocarbon odor.

SECTION 2 -- HAZARDOUS INGREDIENTS

OCCUPATIONAL EXPOSURE LIMITS

INGREDIENT	CAS #	PERCENT	ACGIH	ACGIH	OSHA	OSHA	VAPOR PRESSURE
			TLV (TWA)	TLV (STEL)	PEL (TWA)	PEL (STEL)	
Xylenes	1330-20-7		100 PPM	150 PPM	100 PPM	150 PPM	7 MM Hg @ 20° C.
Ethyl Benzene	100-41-4		100 PPM	125 PPM	100 PPM	125 PPM	10 MM Hg @ 68° F.

SECTION 3 -- EMERGENCY AND FIRST AID PROCEDURES

Eye Contact: Move victim away from exposure and into fresh air. Flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Get medical attention.

Skin Contact: Remove contaminated clothing/shoes. Flush skin with water. Follow by washing with soap and water. If irritation occurs, get medical attention. Do not reuse clothing until cleaned.

Inhalation: If respiratory symptoms or other symptoms of exposure develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek immediate medical attention. If victim is not breathing, immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.

Ingestion: Do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Get immediate medical attention.

Note to Physicians: Exposure to high concentrations of this material (for example, use in enclosed spaces or in cases of deliberate abuse) may be associated with cardiac arrhythmias. Epinephrine and other sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material. Other drugs with less arrhythmogenic potential should be considered. If sympathomimetic drugs are administered, observe for the development of cardiac arrhythmias.

SECTION 4 -- PHYSICAL DATA

The following data represent approximate or typical values. They do not constitute product specifications.

Boiling Range:	276-289° (F)	Vapor Density:	Heavier than air
Evaporation Rate:	Slower than ether	% Volatile By Volume:	100%
Weight Per Gallon:	7.25 Lbs.		
Solubility in Water:	Negligible; less than 0.08%		

SECTION 5 -- FIRE AND EXPLOSION DATA

Flammability Classification:	Flammable Liquid Class IB
Flash Point:	79° (F) (Tag. Closed Cup). 930°F
Autoignition Temperature:	1% (Estimated).
Lower Explosive Limit:	Carbon Dioxide, foam, dry chemical, water spray. Do not use direct water stream; it will spread fire.
Extinguishing Media:	Do not store or mix with strong oxidants.
Unusual Fire and Explosion Hazards:	Use air-supplied rescue equipment for enclosed areas. Cool exposed containers with water.
Special Fire Fighting Procedures:	

SECTION 6 -- HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE:	100 PPM (ACGIH - Time weighted average)
Eye Contact:	Liquid is minimally irritating to the eyes. High vapor concentrations may also be irritating.
Skin Contact:	Liquid is mildly irritating to the skin. Prolonged or repeated liquid contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis.
Inhalation:	Vapors are irritating to the nose, throat and respiratory tract. High vapor concentrations may cause central nervous system depression.
Ingestion:	Liquid is moderately toxic and may be harmful if swallowed; may produce central nervous system depression. Ingestion of product may result in vomiting; aspiration (breathing) of vomitus into the lungs must be avoided as even small quantities may result in aspiration pneumonitis.
Carcinogenicity:	Xylene is not known to be mutagenic, carcinogenic or a skin sensitizer. However, the available experimental data are limited and insufficient to assess carcinogenic potential. Xylene is not listed as a carcinogen by NTP, IARC or OSHA.
Target Organs:	A six week inhalation study with Xylene produced hearing loss in rats. Laboratory animals exposed by various routes to high doses of Xylene have exhibited effects in liver, kidneys, lungs, spleen, heart, blood and adrenals.
Developmental:	Xylene produced limited evidence of developmental toxicity in laboratory animals. Inhalation and oral administration of Xylene resulted in decreased fetal weight, increased incidences of delayed ossification, skeletal variations and resorptions.
Medical Conditions Aggravated by Exposure:	Pre-existing eye, skin and respiratory disorders may be aggravated by exposure to this product.

SECTION 7 -- REACTIVITY DATA

Stability:	Stable
Conditions to Avoid:	Heat, sparks and flame.
Incompatibility (Materials to Avoid):	Strong oxidizing agents like liquid chlorine or concentrated oxygen.
Hazardous Decomposition Products:	Thermal decomposition may yield carbon monoxide.
Hazardous Polymerization:	Will not occur.

SECTION 8 -- SPILL OR LEAK PROCEDURES

Steps to be taken in case material is spilled or released: Remove ignition sources, evacuate area, avoid breathing vapors or contact with liquid. Recover free liquid or stop leak if possible. Dike large spills and use absorbent material for small spills. Keep spilled material out of sewers, ditches and bodies of water.

Waste disposal method: Incinerate under safe conditions; dispose of in accordance with local, state and federal regulations.

SECTION 9 -- SAFE HANDLING AND USE INFORMATION

Respiratory Protection:	Appropriate organic vapor canister, self-contained breathing apparatus or supplied-air hose mask, if needed.
Ventilation:	Sufficient, in volume and pattern, to keep workroom concentration below current applicable OSHA safety and health requirements. See Section 2. Use explosion-proof equipment. No smoking.
Protective Gloves:	Wear resistant gloves, such as nitrile rubber.
Eye Protection:	Chemical safety goggles.
Other Protective Equipment:	Impervious clothing or boots, if needed.