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CHEMTREC Emergency Response Telephone Number: (800)424-9300

Note: The CHEMTREC phone number is only for emergencies involving spills, leaks, fire, exposure or accident. Please direct all other inquiries to our customer service phone number.

### Section I - Product Identification

Xylene is a mixture of the ortho, para and meta xylene isomers with ethyl benzene.

### Section II - Hazards Identification

**Warning:** Flammable liquid and vapor. Keep away from heat, sparks, open flames and hot surfaces. Keep container tightly closed. Use only non-sparking tools. Take precautions against static discharge. Wear protective clothes and eye protection. In case of skin contact immediately remove all contaminated clothing. Rinse with water or shower. In case of fire, use fire extinguishers approved for alcohol fires.

#### Safety Ratings

**Health:** Hazardous **Flammability:** Highly flammable liquid vapor **Reactivity:** Slight **Contact:** Hazardous

Recommended safety equipment: safety goggles, lab coat and proper gloves

Storage: Keep cool, away from sources of ignition in a well ventilated area.

#### NFPA Ratings

Health = 2 Flammability = 3 Reactivity = 1



#### Potential Health Effects

The vapor is irritating to nose and throat. Prolonged exposure may cause pulmonary edema. Skin contact causes local defatting of the skin which will cause irritation and chaffing. Long term exposure may cause CNS disturbance and damage to the liver and kidneys.

**Inhalation:** Irritating to nose and throat. Inhalation of high concentrations can cause CNS disturbance, dizziness, headache, stupor, coma and death. Not normally a problem at ambient temperature.

**Ingestion:** Although the acute toxicity of xylene is low, ingestion can cause extreme irritation to GI tract.. Cause mild to severe pulmonary injury if small amounts are aspirated into the respiratory tract.

**Skin contact:** Repeated contact causes defatting of the skin with resultant irritation and flaking.

**Eye contact:** May be irritating.

**Chronic Exposure:** Chronic exposure can cause skin rash and/or damage to eyes, liver or kidneys.

**Aggravation of preexisting conditions:** Impaired kidney and liver function may be aggravated. Preexisting eye, skin, and respiratory conditions may also be aggravated.

### Section III - Composition/Information on Components

Ingredients	CAS#	OSHA Pel	ACGIH TLV	Other Limits	%
Xylenes	1330-20-7	100 ppm (TWA)	150 ppm (STEL)		77 - 81%
Ethyl Benzene	100-41-4	100 ppm (TWA)	125 ppm (STEL)		18 - 22%

### Section IV - First Aid Measures

**Inhalation:** Remove from source of exposure and get medical attention for any breathing difficulty.

**Ingestion:** Do not induce vomiting. Vomiting may occur spontaneously, in which case try to prevent the vomitus from being aspirated into the lungs. Get immediate medical attention even if symptoms improve.

**Skin Contact:** In case of skin contact, remove contaminated clothing and flush with water. Wash affected area with soap and water. Get medical advice if irritation develops.

**Eye Contact:** In case of eye contact, flush with water minutes and get medical attention if irritation develops.

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## Section V - Fire Fighting Measures

*Flash point:* 27°C (80°F) TCC

*Flammable Limits:* LEL 1% UEL 6.6%

*Explosion:* Vapor is heavier than air and may travel along ground to ignition source..

*Fire Extinguishing Media:* Alcohol type foam, carbon dioxide or dry chemical. Water is ineffective against xylene fires but may be used to cool adjacent containers.

*Special information:* Pyrolysis will release toxic oxides such as carbon monoxide.

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## Section VI - Accidental Release Measures

Remove all sources of ignition, absorb with a suitable absorbent (such as paper towels) and dispose.

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## Section VII - Handling and Storage

Store in a cool, well ventilated place. Store in a closed container, away from open flames or other sources of ignition.

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## Section VIII - Exposure Control/Personal Protection

*Airborne Exposure Limits:* See section III.

*Ventilation System:* Usually not required. When required, Refer to the ACGIH document, "Industrial Ventilation, a Manual of Recommended Practices" for details about ventilation.

*Personal Respirator:* Usually not required. In case of emergency, or when exposure levels are unknown, use a positive pressure, full face piece, air supplied respirator.

*Skin protection:* Protective gloves are not required but recommended as part of good laboratory practice.

*Eye Protection:* Laboratory safety goggles or similar products are not required but recommended as part of good laboratory practice.

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## Section IX - Physical and Chemical Properties

*Boiling Point:* 140°C

*Density:* 0.867 g/ml

*Evaporation Rate (n-Butyl Acetate = 1):* 0.86

*Solubility:* Not miscible with water (solubility < 0.08%)

*Appearance and Odor:* A clear colorless liquid with the Characteristic odor of xylene.

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*VOC:* 867 g/l

*Vapor pressure (mm Hg):* 5.1 @ 20°C

*Vapor Density (air = 1):* 3.7

## Section X - Stability and Reactivity

*Stability:* Stable.

*Hazardous Decomposition Products:* Nothing unusual.

*Hazardous polymerization:* Will not occur.

*Incompatibilities:* Oxidizers.

*Conditions to avoid:* heat, flame and sources of ignition.

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## Section XI - Toxicological Information

Xylene is a possible teratogen.

Cancer lists

<u>Ingredient</u>	<u>Known Carcinogenicity?</u>	<u>NTP?</u>	<u>Anticipated?</u>	<u>IARC Category</u>
m-Xylene	No	No	No	3
o-Xylene	No	No	No	3
p-Xylene	No	No	No	3
Ethyl Benzene	No	No	No	2B

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## Section XII - Ecological Information

*Environmental Fate:* Not biodegradable.

*Environmental Toxicity:* Slightly toxic to marine organisms..

Xylene evaporates quickly and is not expected to bioaccumulate. The material is removed from the air by dry and liquid adsorption. The half-life for xylene in the atmosphere is less than one day.

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**Section XIII - Disposal Considerations**

Incineration at a licensed chemical disposal facility is the preferred method. Because xylene is flammable and only slightly water soluble, local governments usually restrict the amount of xylene that may be flushed down the drain. Dispose of contents and container in accord with all applicable regulations.

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**Section XIV - Transportation Information**

DOT Shipping name: Xylenes

Hazard Class: 3      Packaging Group III

DOT Hazard Label: Flammable liquid

DOT Identification Number: UN1307

Bottles smaller than 32 Fl. Oz. are eligible to be shipped under ORM-D or limited quantity exemptions [49 CFR section 173.150(b)(2) and 173.150(C)].

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**Section XV - Regulatory Information****Chemical Inventory Status**

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<u>Ingredient</u>	<u>TSCA</u>	<u>EC</u>
Xylenes	Yes	Yes
Ethyl benzene	Yes	Yes

**Federal, State and International Regulations**

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<u>Ingredient</u>	<u>SARA 302</u>		<u>SARA 313</u>		<u>RCRA</u>	<u>TSCA</u>	<u>Ca. Prop. 65</u>
	<u>RQ</u>	<u>TPQ</u>	<u>List</u>	<u>Category</u>	<u>261.33</u>	<u>8(D)</u>	
Xylenes	No	No	Yes	No	No	No	No
Ethyl benzene	No	No	Yes	No	No	No	No

Chemical Weapons Convention: No    TSCA 12(b): No    CDTA: Yes

SARA 311/312: Acute: Yes, Chronic: Yes Fire: Yes

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**Section XVI - Other Information**

This information is believed to be correct but is not warranted as such, nor does it purport to be all inclusive.

Revision Date: Nov. 27, 2017