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Section I - Product Identification

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

Intended Uses: A general purpose laboratory reagent.

Uses advised against: Not for consumer use.

Manufacturer Identification

Mopec
800 Tech Row
Madison Heights, MI 48071

Customer Service: Phone (800)362-8491
Email. customerservice@mopec.com

Section II - Hazard Identification

This item is considered hazardous by OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquid: Category 3 (H226). Flammable liquid and vapor.
Eye damage/eye Irritation: Category 2 (H319). Causes serious eye irritation.
Acute toxicity (Oral): Category 4 (H302). Harmful if swallowed.
Acute toxicity (Inhalation): Category 4 (H332). Harmful if inhaled.
Acute toxicity (Dermal): Category 4 (H312). Harmful in contact with skin.

Signal word: Warning.

Hazard statements

According to the harmonized classification and labeling required by OSHA and the EU, this substance is a flammable liquid and vapor, causes serious eye irritation and may cause drowsiness or dizziness. In case of fire, use fire extinguishers approved for xylene fires.

Precautionary statements

P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting equipment.
P242 Use only non-sparking tools.
P243 Take precautions against static discharge.
P280 Wear protective clothes and eye protection.

Safety Ratings

Health: Hazardous *Flammability*: Flammable *Reactivity*: Unstable if heated *Contact*: Slight
Recommended safety equipment: safety goggles, lab coat and proper gloves

NFPA Ratings

Health = 2 Flammability = 3 Reactivity = 1

Potential Health Effects

The toxicology of this compound has not been completely examined. It is presumed that the toxicity of this item is similar to that of other aromatic compounds. 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.

Inhalation: Irritating to nose and throat. Inhalation of high concentrations can cause CNS disturbance, dizziness, headache, stupor, coma and death.

Ingestion: Although the acute toxicity of xylene is low, ingestion can causes extreme irritation to GI tract. Causes 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: Causes serious eye irritation.

Chronic Exposure: Unknown.

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

Section III - Composition/Information on Components

Ingredients	CAS#	EC/list #	%
Mixed Xylenes	1330-20-7	905-215-1	100%

Section IV - First Aid Measures

General Advice: Contact a doctor if symptoms persist

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

Ingestion: Do not induce vomiting. Aspiration of xylene into the lungs may produce death. 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 for at least 15 minutes and get medical attention.

Section V - Fire Fighting Measures

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

Flash point: 27 - 32 °C (81 - 90 °F) TCC
Flammable Limits: LEL 1% UEL 7%

Specific Hazards: Risk of vapor traveling to source of ignition and flashing back. Risk of exploding containers when heated. Vapor in air may form explosion risk.

Special information: Pyrolysis will release toxic carbon monoxide, formaldehyde and methanol.

Special protective gear and precautions: Self contained breathing apparatus and protective gear recommended.

Section VI - Accidental Release Measures

Use personal protective gear, remove all sources of ignition, absorb with a suitable absorbent and dispose. Take precautions against static ignition. Should not be released into the environment.

Section VII - Handling and Storage

P403+P233+P102; Store in a well-ventilated place. Keep container tightly closed. Store away from open flames or other sources of ignition. Keep out of reach of children.

Section VIII - Exposure Control/Personal Protection

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Xylene	100 ppm TWA	100 ppm TWA	900 ppm

Legend

ACGIH: American Conference of Governmental Industrial Hygienists.
OSHA: Occupational Safety and Health Administration.
NIOSH: National Institute for Occupational Safety and Health.
IDLH: Immediately dangerous to life or health.

Ventilation System: Local exhaust such as explosion proof chemical fume hoods are recommended. 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 recommended as part of good laboratory practice.

Eye Protection: Laboratory safety goggles or similar products are recommended as part of good laboratory practice.

Section IX - Physical and Chemical Properties

Boiling Point: 138 - 148 °C (282 °F)
Vapor pressure (mm Hg): 5.1 @ 20 °C
Vapor Density: (air = 1): 3.7
Density: 0.867 g/ml @ 22.5 °C
Evaporation Rate (Butyl Acetate = 1.0): 0.86
Solubility: Infinitely miscible with water
Appearance and Odor: A clear colorless liquid with a sweet odor. Has the characteristic odor of Xylene.

Section X - Stability and Reactivity

Stability: Stable under normal conditions.

Hazardous Decomposition Products: benzene and other aromatic compounds.

Hazardous polymerization: Will not occur.

Incompatibilities: Oxidizers and strong acids.

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

Section XI - Toxicological Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Xylene	3.5 g/kg (Rat)	> 4200 mg/kg (Rabbit)	29 mg/l 4 h (rabbit)

Slightly toxic by ingestion.

Cancer lists

Ingredient	*Known Carcinogenicity?*	*NTP?*	*Anticipated?*	*IARC Category*
Xylene	No	No	No	No

Section XII - Ecological Information

Xylene evaporates quickly and are not expected to bioaccumulate. The material is removed from the air by dry and liquid adsorption.

Environmental Fate: Biodegradable
Soil Mobility: Unknown

Environmental Toxicity: (401) Toxic to marine life. Not classified as dangerous to the environment under EC reg. 1272/2008. Xylene is not a greenhouse substance not is it dangerous to the ozone layer.

Component	Freshwater Fish	Water Flea	Freshwater algae
Xylene	LC50 2.6 mg/l 96 h	EC50 2.9 mg/l 48 h	EC50 4.4 mg/l 73 h

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.

Section XIV - Transportation Information

DOT Shipping name: Xylene
DOT Hazard Label: Flammable liquid DOT
Hazard Class: 3
Packaging Group III
Identification Number: UN1307

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

Section XV - Regulatory Information

Chemical Inventory Status

Ingredient	*TSCA*	*EC*
Xylene	Yes	Yes

Federal, State and International Regulations

	SARA 302		*SARA 313*		*RCRA*	*TSCA*	
Ingredient	*RQ*	*TPQ*	*List*	*Category*	*261.33*	*8(D)*	*Ca. Prop 65*
Xylene	No	No	Yes	No	U002	No	No

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

SARA 311/312: Acute: Yes Chronic: Yes Fire: Yes Pressure: No Reactivity: No

Section XVI - Other Information

This information is believed to be correct at the time of publication but is not guaranteed as such, nor does it purport to be all inclusive. Mopec assumes no liability for the accuracy or completeness of the information. The user assumes all responsibility for compliance with federal, state and local laws.

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