



Safety Data Sheet

Xylenes

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Xylenes, ACS

Synonyms/Generic Names: Mixed xylenes (o-, m-, p- isomers)

Product Number: CP-C7742, CP-E7742, 6030

Product Use: Industrial, Manufacturing or Laboratory use

Manufacturer: ChemPure Brand Chemicals
39103 Warren Road
Westland, MI 48185

For More Information Call: 734-729-1805 (Monday-Friday 8:00-4:30)

In Case of Emergency Call: CHEMTREC - 800-424-9300 or 703-527-3887 (24 Hours/Day, 7 Days/Week)

2. HAZARDS IDENTIFICATION

OSHA Hazards: Flammable liquid, Carcinogen, Target organ effect, Harmful by skin absorption, Irritant

Target Organs: Liver, Kidneys, Blood, Eyes, Ears, Heart, Bone marrow, Central nervous system

Signal Word: Danger

Pictograms:



GHS Classification:

Flammable liquids	Category 3
Acute toxicity, Oral	Category 5
Acute toxicity, Inhalation	Category 4
Acute toxicity, Dermal	Category 4
Skin irritation	Category 2
Serious eye damage	Category 1
Acute aquatic toxicity	Category 2

GHS Label Elements, including precautionary statements:**Hazard Statements:**

H226	Flammable liquid and vapor.
H303	May be harmful if swallowed.
H312+H332	Harmful in contact with skin or if inhaled.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H401	Toxic to aquatic life.

Precautionary Statements:

P280	Wear protective gloves/ eye protection/ face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Potential Health Effects

Eyes	Causes eye irritation.
Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
Skin	Causes skin irritation.
Ingestion	May be harmful if swallowed.

NFPA Ratings

Health	2
Flammability	3
Reactivity	0
Specific hazard	Not Available

HMIS Ratings

Health	2
Fire	3
Reactivity	0
Personal	H

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight %	CAS #	EINECS# / ELINCS#	Formula	Molecular Weight
Xylenes (m-, o-, p-)	70-90	1330-20-7	215-535-7	C ₈ H ₁₀	106.17 g/mol
Ethylbenzene	10-30	100-41-4	202-849-4	C ₈ H ₁₀	106.17 g/mol

4. FIRST-AID MEASURES

Eyes	In case of eye contact, rinse with plenty of water and seek medical attention.
Inhalation	Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.
Skin	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and wash using soap. Get medical attention.
Ingestion	Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention.

5. FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Use appropriate media for adjacent fire. Cool containers with water.
Special protective equipment and precautions for firefighters	Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.
Specific hazards arising from the chemical	Emits toxic fumes (carbon oxides) under fire conditions. (See also Stability and Reactivity section).

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	See section 8 for recommendations on the use of personal protective equipment.
Environmental precautions	Prevent spillage from entering drains. Any release to the environment may be subject to federal/national or local reporting requirements.
Methods and materials for containment and cleaning up	Neutralize spill. Absorb spill with noncombustible absorbent material, then place in a suitable container for disposal. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

See section 8 for recommendations on the use of personal protective equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use. Avoid formation of aerosols. Keep away from sources of ignition - No smoking. Take measures to prevent the build-up of electrostatic charge.

Conditions for safe storage, including any incompatibilities

Store in cool, dry well ventilated area. Keep away from incompatible materials (see section 10 for incompatibilities).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure controls: Ventilation and appropriate grounding of containers.

Component	Exposure Limits	Basis	Entity
Xylene	100 ppm 434 mg/m ³	TLV	ACGIH
	150 ppm 651 mg/m ³	STEL	ACGIH
	100 ppm 435 mg/m ³	PEL	OSHA
	100 ppm 435 mg/m ³	REL	NIOSH
	150 ppm 655 mg/m ³	STEL	NIOSH

Ethylbenzene	100 ppm 434 mg/m ³	TLV	ACGIH
	125 ppm 543 mg/m ³	STEL	ACGIH
	100 ppm 435 mg/m ³	PEL	OSHA
	100 ppm 435 mg/m ³	REL	NIOSH
	125 ppm 454 mg/m ³	STEL	NIOSH

TWA: Time Weighted Average over 8 hours of work.

TLV: Threshold Limit Value over 8 hours of work.

REL: Recommended Exposure Limit

PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit during x minutes.

IDLH: Immediately Dangerous to Life or Health

WEEL: Workplace Environmental Exposure Levels

CEIL: Ceiling

Personal Protection

Eyes	Wear chemical safety glasses or goggles.
Inhalation	Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an approved respirator.
Skin	Wear nitrile or rubber gloves, apron or lab coat.
Other	Not Available

Other Recommendations

Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.)	Clear, colorless liquid.
Odor	Sweet odor.
Odor threshold	1 ppm
pH	Not Available
Melting point/freezing point	-47.4°C (-53.3°F)
Initial boiling point and boiling range	138.5°C (281.3°F)
Flash point	CLOSED CUP: 24°C (75.2°F) OPEN CUP: 37.8°C (100°F)
Evaporation rate	Not Available
Flammability (solid, gas)	Flammable
Upper/lower flammability or explosive limit	LOWER: 1% UPPER: 7%
Vapor pressure	0.9 kPa (@ 20°C)
Vapor density	3.7 (Air = 1)
Density	0.864 (Water = 1)
Solubility (ies)	Insoluble in cold water, hot water. Miscible with absolute alcohol, ether, and many other organic liquids.
Partition coefficient: n-octanol/water	Not Available
Auto-ignition temperature	464°C (867.2°F)
Decomposition temperature	Not Available

10. STABILITY AND REACTIVITY

Chemical Stability	Stable
Possibility of Hazardous Reactions	Will not occur.
Conditions to Avoid	Heat, flames, sparks.
Incompatible Materials	Strong oxidizing agents.
Hazardous Decomposition Products	Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Skin	LD50 Dermal – Rabbit - >5mL/kg
Eyes	Not Available
Respiratory	LC50 Inhalation – Mouse – 3907 ppm– 6hr LC50 Inhalation – Rat – 6350 ppm – 4hr
Ingestion	LD50 Oral – Rat – 10 mL/kg LD50 Oral – Mouse (female) – 5251 mg/kg LD50 Oral – Mouse (male) – 5627 mg/kg

Carcinogenicity

IARC	3 - Group 3: Not classifiable as to its carcinogenicity to humans (Xylene). 2B - Group 2B: Possibly carcinogenic to humans (Ethylbenzene).
ACGIH	A4: Not classifiable as a human carcinogen (Xylene). A3: Animal carcinogen (Ethylbenzene).
NTP	No components of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA	No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Signs & Symptoms of Exposure

Skin	Irritation, redness.
Eyes	Irritation, redness, watering eyes, itchiness.
Respiratory	Headache, weakness, memory loss, irritability, dizziness, giddiness, loss of coordination and judgment, respiratory depression/arrest or difficulty breathing.
Ingestion	Abdominal pain, vomiting, and nausea.

Chronic Toxicity	Not Available
Teratogenicity	Not Available
Mutagenicity	Not Available
Embryotoxicity	Not Available
Specific Target Organ Toxicity	Not Available
Reproductive Toxicity	Not Available
Respiratory/Skin Sensitization	Not Available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Aquatic Vertebrate	Not Available
Aquatic Invertebrate	Not Available
Terrestrial	Not Available

Persistence and Degradability	Not Available
Bioaccumulative Potential	Not Available
Mobility in Soil	Not Available
PBT and vPvB Assessment	Not Available
Other Adverse Effects	Not Available

13. DISPOSAL CONSIDERATIONS

Waste Residues	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.
Product Containers	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.

The information offered in section 13 is for the product as shipped. Use and/or alterations to the product may significantly change the characteristics of the material and alter the waste classification and proper disposal methods.

14. TRANSPORTATION INFORMATION

US DOT	UN1307, Xylenes, 3, pg III
TDG	UN1307, XYLENES, 3, PG III
IMDG	UN1307, XYLENES, 3, PG III
Marine Pollutant	No
IATA/ICAO	UN1307, Xylenes, 3, pg III

15. REGULATORY INFORMATION

TSCA Inventory Status	All ingredients are listed on the TSCA inventory.
DSCL (EEC)	All ingredients are listed on the DSCL inventory.
California Proposition 65	Listed: Ethylbenzene
SARA 302	Not Listed
SARA 304	Not Listed
SARA 311	Xylene, Ethylbenzene
SARA 312	Xylene, Ethylbenzene
SARA 313	Listed: Xylene, Ethylbenzene
WHMIS Canada	Class B-2: Flammable liquid with a flash point lower than 37.8°C (100°F). Class D-2A: Material causing other toxic effects (VERY TOXIC). Class D1B: Toxic Materials

16. OTHER INFORMATION

Revision	Date
Revision 1	10-26-2012

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