

Material Safety Data Sheet



Xylene

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Carolina Biological Supply Company

2700 York Rd | Burlington, NC 27215 • to order: 800.334.5551 • for support: 800.227.1150

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Section 1 - Product Description

Product Name: Xylene

Product Code(s): 89-8741, 89-8743, 89-8750, 89-8752, 89-8754, 59-1720, B6105, B6103, B6207, B6000, B6090, B5995, 15-4726A, C10101, C71393, C70346, C25442

Size: Various

Chemical Name: Xylene (Mixed Isomers)

CAS Number: 1330-20-7

Formula: C₆H₄ (CH₃)₂

Synonyms: Xylol, Dimethylbenzene

Distributor: Carolina Biological Supply Company, 2700 York Road, Burlington, NC 27215

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F) **Chemtrec** 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 - Hazard Identification

Emergency Overview: May be fatal if swallowed or inhaled. May damage central nervous system. May cause damage to kidneys, liver, & blood.

Potential Health Effects:

Eyes: Causes severe burns and eye damage upon direct contact. Vapor is irritating.

Skin: May cause severe irritation or chemical burns.

Ingestion: May severely irritate or damage digestive tract.

Inhalation: May severely irritate or damage mucous membranes and respiratory tract.

Section 3 - Composition / Information on Ingredients

Principal Hazardous Components: m - Xylene (CAS# 108-38-3) 42%

o - Xylene (CAS# 95-47-6) 19%

p - Xylene (CAS# 106-42-3) 18%

Ethylbenzene (CAS# 100-41-4) 21%

TLV units: m - Xylene: 100 ppm, 434 mg/m³ (TWA); 150 ppm, 651 mg/m³ STEL

o - Xylene: 100 ppm, 434 mg/m³ (TWA); 150 ppm, 651 mg/m³ STEL

p - Xylene: 100 ppm, 434 mg/m³ (TWA); 150 ppm, 651 mg/m³ STEL

Ethylbenzene: 100 ppm, 434 mg/m³ (TWA); 125 ppm, 543 mg/m³ STEL

PEL units: m - Xylene: 100 ppm, 435 mg/m³ (TWA); 150 ppm, 651 mg/m³ STEL

o - Xylene: 100 ppm, 435 mg/m³ (TWA); 150 ppm, 651 mg/m³ STEL

p - Xylene: 100 ppm, 435 mg/m³ (TWA); 150 ppm, 655 mg/m³ STEL

Ethylbenzene: 100 ppm, 435 mg/m³ (TWA); 125 ppm, 545 mg/m³ STEL

Section 4 - First Aid Measures

Emergency and First Aid Procedures:

Eyes - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin - After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.

Ingestion - If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

Inhalation - In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Section 5 - Firefighting Procedures

Flash Point (Method Used): 29.44 °C

NFPA Rating:

Health: 2

Fire: 3

Reactivity: 0

Extinguisher Media: Use dry chemical, CO₂ or appropriate foam.

Flammable Limits in Air % by Volume: 1.00% 7.00%

Autoignition Temperature: 464 °C (867 °F)

Special Firefighting Procedures: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: Vapours may travel back to ignition source. Closed Containers exposed to heat may explode.

Section 6 - Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled: Ventilate area of spill. Eliminate all sources of ignition. Remove all non-essential personnel from area. Clean-up personnel should wear proper protective equipment and clothing. Absorb material with suitable absorbent and containerize for disposal.

Section 7 - Special Precautions

Precautions to Take in Handling or Storing: Do not breathe dust/vapor. Do not get in eyes, on skin, or on clothing. Retained residue may make empty containers hazardous; use caution.

Bond and ground containers when transferring liquid.

Use only in well-ventilated areas. Keep container tightly closed in a cool, well-ventilated place.

This material should be kept in an area suitable for the storage of flammable liquids. Store away from oxidizing agents, sparks and flame.

Section 8 - Protection Information

Respiratory Protection (Specify Type): None needed under normal conditions of use with adequate ventilation. A NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.

Ventilation:

Local Exhaust: Yes

Mechanical(General): Yes

Special: No

Other: No

Protective Gloves: Natural rubber, Neoprene, PVC or equivalent.

Eye Protection: Splash proof chemical safety goggles should be worn.

Other Protective Clothing or Equipment: Lab coat, apron, eye wash, safety shower.

Section 9 - Physical Data

Molecular Weight: 106.17 g/mol

Boiling Point: 138 °C

Vapor Density(Air=1): 3.6

Percent Volatile by Volume: 99%

Melting Point: N/A

Vapor Pressure: 5.1 at 20 °C

Specific Gravity (H₂O=1): 0.872

Evaporation Rate (BuAc=1): 0.61

Solubility in Water: Slightly Soluble
odor.

Appearance and Odor: Clear, colorless liquid with characteristic

Section 10 - Reactivity Data

Stability: Stable

Conditions to Avoid: Heat and sources of ignition.

Incompatibility (Materials to Avoid): Oxidizers,

Hazardous Decomposition Products: CO_x,

Hazardous Polymerization: Will not occur

Section 11 - Toxicity Data

Toxicity Data: orl-rat LD50: 4300 mg/kg

Effects of Overexposure:

Acute: See Section 2

Chronic: Tests on laboratory animals indicate material may produce adverse mutagenic and reproductive effects.

Conditions Aggravated by Overexposure: N/A

Target Organs: Skin, Eyes, Mucous Membranes,

Primary Route(s) of Entry: Inhalation, ingestion, eye or skin contact.

Section 12 - Ecological Data

EPA Waste Numbers: D001, U239

Section 13 - Disposal Information

Waste Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

Section 14 - Transport Information

DOT Proper Shipping Name: UN1307, Xylenes, 3, III

500 mL bottle is a consumer commodity/ORM-D

Section 15 - Regulatory Information

EPA TSCA Status: On TSCA Inventory

Hazard Category for SARA Section 311/312 Reporting: Acute

WARNING: This product contains a chemical known to the state of California to cause cancer.

Name List:

m - Xylene - Yes

o - Xylene - Yes

p - Xylene - Yes

Ethylbenzene - Yes

Chemical Category:

CERCLA Section 103 RQ(lb.): m - Xylene - 1000 lbs

o - Xylene - 1000 lbs

p - Xylene - 1000 lbs

Ethylbenzene - 1000 lbs

RCRA Section 261.33: m - Xylene - No

o - Xylene - No

p - Xylene - No

Ethylbenzene - No

Section 16 - Additional Information

The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

Glossary

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| ACGIH | American Conference of Governmental Industrial Hygienists |
| CAS Number | Chemical Services Abstract Number |
| CERCLA | Comprehensive Environmental Response, Compensation, and Liability Act |
| DOT | U.S. Department of Transportation |
| IARC | International Agency of Research on Cancer |
| N/A | Not Available |
| NTP | National Toxicology Program |
| OSHA | Occupational Safety and Health Administration |
| PEL | Permissible Exposure Limit |
| ppm | Parts per million |
| RCRA | Resource Conservation and Recovery Act |
| SARA | Superfund Amendments and Reauthorization Act |
| TLV | Threshold Limit Value |
| TSCA | Toxic Substances Control Act |