

Material Safety Data Sheet (MSDS)

Mixed Xylene

Revision Date: 23-September-2025

Version: 1.0

Section 1: Product Identification

- **Product Name:** Mixed Xylene
- **Chemical Formula:** C₈H₁₀
- **CAS No:** 1330-20-7
- **Synonyms:** Xylol; Dimethylbenzene (mixture of ortho-, meta-, para-xylene isomers)
- **Recommended Use** Solvent; raw material in chemical synthesis; paint, coating, adhesive, and fuel additive.

Section 2: Hazards Identification

- **Classification (GHS):** Flammable liquid, Acute toxicity, Oral, Acute toxicity, Inhalation, Skin irritation
- **Signal Word:** Danger
- **Hazard Statements:**

+91-9227788155 | +91-9227788115 | +91-9227070667 | +91-260-6618618

info@triveniinterchem.com | info@trivenichemical.com

www.triveniinterchem.com | www.trivenichemical.com

135, Pancharatna, Char Rasta, G.I.D.C., Vapi-396195, Gujarat, India



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- Flammable liquid and vapor
- Harmful if swallowed or inhaled
- Causes skin irritation
- Keep away from heat/sparks/open flames. No smoking
- Use explosion-proof equipment and proper ventilation
- Wear protective gloves/eye protection
- If Inhaled: Remove person to fresh air and keep at rest in a comfortable position for breathing

Section 3: Composition / Information on Ingredients

- **Concentration:** 100%

Section 4: First Aid Measures

- **Inhalation:** Remove to fresh air. If breathing is difficult, give oxygen. Seek immediate medical attention.
- **Skin Contact:** Wash with plenty of soap and water. Remove contaminated clothing. Seek medical advice if irritation persists.
- **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Get medical attention if irritation persists.
- **Ingestion:** Do NOT induce vomiting. Rinse mouth. Seek immediate medical advice.

Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Dry chemical, foam, carbon dioxide (CO₂); water spray.
- **Specific Hazards:** Flammable liquid and vapor; vapors may form explosive mixtures with air. Emits toxic fumes of carbon oxides on combustion.
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and protective clothing.

Section 6: Accidental Release Measures

- **Personal Precautions:** Use personal protective equipment. Eliminate ignition sources. Ensure adequate ventilation. Avoid breathing vapors.
- **Environmental Precautions:** Prevent entry into drains and waterways; toxic to aquatic organisms.
- **Cleanup Methods:** Absorb with inert material (sand, earth). Collect in suitable container for disposal. Use non-sparking tools.

Section 7: Handling and Storage

- **Handling:** Avoid inhalation of vapors and contact with skin/eyes. Use only in well-ventilated areas. Keep away from ignition sources.

- **Storage:** Keep container tightly closed. Store in a cool, dry, well-ventilated place away from heat, sparks, and open flames.

Section 8: Exposure Controls / Personal Protection

- **Exposure Limits:** OSHA PEL: 100 ppm (435 mg/m³) TWA; ACGIH TLV: 100 ppm (TWA), 150 ppm (STEL).
- **Engineering Controls:** Provide adequate ventilation, explosion-proof equipment, and local exhaust if needed.
- **Personal Protective Equipment:** Chemical-resistant gloves, safety goggles, protective clothing. Respiratory protection if ventilation is inadequate.

Section 9: Physical and Chemical Properties

- **Appearance:** Clear, colorless liquid
- **Odor:** Sweet, aromatic odor
- **Boiling Point:** 137 – 143 °C
- **Flash Point:** 27 °C (closed cup)
- **Solubility:** Insoluble in water; miscible with most organic solvents
- **Molecular Weight:** 106.16 g/mol

Section 10: Stability and Reactivity

- **Stability:** Stable under recommended storage conditions.
- **Incompatible Materials:** Strong oxidizing agents, acids.
- **Hazardous Decomposition Products:** Carbon oxides under fire conditions.

Section 11: Toxicological Information

- **Routes of Exposure:** Inhalation, ingestion, skin and eye contact.
- **Acute Effects:** Harmful if inhaled or swallowed; causes skin irritation; may cause respiratory irritation, dizziness, or drowsiness.
- **Chronic Effects:** Prolonged or repeated exposure may damage liver, kidneys, and central nervous system.

Section 12: Ecological Information

- **Ecotoxicity:** Toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment.
- **Persistence and Degradability:** Expected to be biodegradable.
- **Bioaccumulative Potential:** Moderate potential.

Section 13: Disposal Considerations

- Dispose of contents/container in accordance with local/regional/national regulations. Do not release into the environment.

Section 14: Transport Information

- **UN Number:** UN1307
- **Proper Shipping Name:** Xylenes, mixed isomers
- **Hazard Class:** 3 (Flammable liquid)
- **Packing Group:** III

Section 15: Regulatory Information

- Complies with Indian chemical safety regulations and listed under international chemical inventories (TSCA, EINECS, etc.).
- Classified as hazardous substance as per GHS.

Section 16: Other Information

- **Disclaimer:** The above information is believed to be correct but does not claim to be exhaustive. Users are responsible for verifying suitability under actual conditions of use. **Triveni chemicals** disclaims any liability for damage resulting from handling or contact.

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