

MILES® XYLENE (XYLOL / DIMETHYLBENZENE)

Safety Data Sheet

SECTION 1: IDENTIFICATION

Product Name: Xylene (mixed isomers)

CAS No.: 1330-20-7 | Formula: C₈H₁₀

Recommended Use: Solvent for paints, coatings, adhesives and resins; industrial cleaning; chemical processing

Supplier: Miles Lubricants LLC

Emergency Telephone: CHEMTREC 1-800-424-9300 (US)

SECTION 2: HAZARD(S) IDENTIFICATION

GHS Classification: Flam. Liq. 3; Acute Tox. 4 (dermal, inhalation); Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3 (respiratory irritation); STOT RE 2; Asp. Tox. 1

Signal Word: Danger

Hazard Statements: H226 – Flammable liquid and vapor. H304 – May be fatal if swallowed and enters airways. H312 + H332 – Harmful in contact with skin or if inhaled. H315 – Causes skin irritation. H319 – Causes serious eye irritation. H335 – May cause respiratory irritation. H373 – May cause damage to organs (central nervous system, hearing) through prolonged or repeated exposure.

Precautionary Statements: P210, P233, P240, P241, P260, P264, P271, P280, P301+P310, P303+P361+P353, P304+P340, P305+P351+P338, P331, P403+P235, P501

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Xylene, mixed isomers (CAS 1330-20-7): 80–100%; ethylbenzene: up to 20%

SECTION 4: FIRST-AID MEASURES

Eye Contact: Flush with water 15+ minutes; seek medical attention if irritation persists.

Skin Contact: Wash with soap and water; may cause dryness/irritation on repeated contact.

Inhalation: Move to fresh air; seek medical attention if dizziness, drowsiness or other symptoms persist.

Ingestion: Do not induce vomiting (aspiration hazard). Call a poison center or doctor immediately.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media: Dry chemical, CO₂, alcohol-resistant foam; water spray to cool containers.

Special Hazards: Highly flammable; vapors are heavier than air and may travel to an ignition source and flash back; containers may rupture when heated.

Firefighter PPE: SCBA and full protective gear for enclosed-space or large fires.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Eliminate ignition sources. Ventilate area. Absorb with inert material; avoid discharge to sewers or waterways (fire/explosion and aquatic hazard).

SECTION 7: HANDLING AND STORAGE

Store in tightly closed containers, cool/well-ventilated area, away from heat/sparks/open flame and oxidizers. Ground/bond containers to control static discharge. Xylene can attack some coatings, plastics and rubber.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits: OSHA PEL (TWA) 100 ppm (435 mg/m³); NIOSH REL (TWA) 100 ppm, STEL 150 ppm; ACGIH TLV (TWA) 20 ppm.

Engineering Controls: Local exhaust ventilation; explosion-proof equipment.

PPE: Chemical splash goggles; chemical-resistant gloves (Viton, PVA or laminate for extended contact); NIOSH-approved respirator if exposure limits may be exceeded.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, colorless liquid | **Odor:** Sweet, aromatic

Boiling Point: 138.5°C (281°F) | **Freezing Point:** approx. -47°C (-53°F)

Specific Gravity: 0.87 @ 20°C | **Flash Point (Closed Cup):** approx. 25–32°C (77–90°F)

Vapor Pressure: approx. 7–9 mm Hg @ 20°C | **Explosive Limits in Air:** 1.1–7.0%

Solubility in Water: Very slightly soluble

SECTION 10: STABILITY AND REACTIVITY

Stable under normal conditions. Avoid heat, sparks, flames, strong oxidizers.

SECTION 11: TOXICOLOGICAL INFORMATION

Harmful if inhaled or in contact with skin. CNS depressant at high vapor concentrations; irritating to skin, eyes and respiratory tract; aspiration hazard. IARC Group 3 (not classifiable as to carcinogenicity).

SECTION 12: ECOLOGICAL INFORMATION

Readily biodegradable. Toxic to aquatic life at high concentrations; do not release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose per local/state/federal regulations; may be regulated as ignitable hazardous waste (D001).

SECTION 14: TRANSPORT INFORMATION

DOT: UN1307, Xylenes, Class 3, PG III.

SECTION 15: REGULATORY INFORMATION

Listed on TSCA. Confirm current federal, state and local regulatory status.

SECTION 16: OTHER INFORMATION

This SDS is a general reference compilation and does not replace the manufacturer's or Miles Lubricants LLC's officially issued, lot-specific SDS.