

MILES® HEPTANE (MIXED ISOMERS)**Safety Data Sheet****SECTION 1: IDENTIFICATION**

Product Name: Heptane (mixed isomers)

CAS No.: 92045-53-9 | Formula: C₇H₁₆

Recommended Use: Solvent, cleaning and degreasing agent, extraction solvent

Supplier: Miles Lubricants LLC

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

SECTION 2: HAZARD(S) IDENTIFICATION

GHS Classification: Flam. Liq. 2; Skin Irrit. 2; STOT SE 3 (narcotic effects); Asp. Tox. 1; Aquatic Chronic 2

Signal Word: Danger

Hazard Statements: H225 – Highly flammable liquid and vapor. H304 – May be fatal if swallowed and enters airways. H315 – Causes skin irritation. H336 – May cause drowsiness or dizziness. H411 – Toxic to aquatic life with long lasting effects.

Precautionary Statements: P210, P233, P240, P241, P242, P243, P273, P280, P301+P310, P303+P361+P353, P304+P340, P331, P403+P235, P501

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Heptane isomers (blend of mainly C7 alkane isomers; n-heptane 35% minimum): ≥95%

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.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits: OSHA PEL (TWA) 500 ppm; ACGIH TLV (TWA) 400 ppm, STEL 500 ppm (as n-heptane).

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

PPE: Chemical splash goggles; chemical-resistant gloves (nitrile for incidental contact); NIOSH-approved respirator if exposure limits may be exceeded.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, colorless liquid | **Odor:** Characteristic, petroleum-like

Distillation Range: 94–100°C (201–212°F) | **Flash Point:** approx. -5°C (23°F)

Density: 0.700–0.725 g/mL @ 15°C | **Vapor Pressure:** approx. 36 mm Hg @ 20°C (n-heptane)

Solubility in Water: Insoluble

SECTION 10: STABILITY AND REACTIVITY

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

SECTION 11: TOXICOLOGICAL INFORMATION

Low acute oral and dermal toxicity (rat/rabbit LD50 > 2,000 mg/kg). CNS depressant at high vapor concentrations; aspiration hazard; repeated skin contact may cause dryness/irritation. Not classified as a carcinogen.

SECTION 12: ECOLOGICAL INFORMATION

Toxic to aquatic life with long lasting effects. 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: UN1206, Heptanes, Class 3, PG II.

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.