

**MILES® N-HEPTANE (NORMAL HEPTANE)****Safety Data Sheet****SECTION 1: IDENTIFICATION**

**Product Name:** n-Heptane

**CAS No.:** 142-82-5 | Formula: C<sub>7</sub>H<sub>16</sub>

**Recommended Use:** Solvent, extraction and purification solvent, cleaning and degreasing agent, chemical processing

**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 Acute 1; Aquatic Chronic 1

**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. H410 – Very toxic to aquatic life with long lasting effects.

**Precautionary Statements:** P210, P233, P240, P241, P242, P243, P261, P273, P280, P301+P310, P303+P361+P353, P304+P340, P331, P403+P235, P501

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

n-Heptane (CAS 142-82-5): ≥99%

**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, CO<sub>2</sub>, 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.

**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

**Boiling Point:** 98°C (208°F) | **Freezing Point:** -91°C (-132°F)

**Density:** 0.684 g/mL @ 20°C | **Flash Point (Closed Cup):** -4°C (25°F)

**Vapor Pressure:** 35.5 mm Hg @ 20°C | **Explosive Limits in Air:** 1.05–6.7%

**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**

Very 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.