



# n-Heptane Safety Data Sheet (SDS)

**SDS #:** 386

**Revision Date:** March 21, 2014

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## SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### n-Heptane

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261

Chemtrec Emergency Phone Number: (800) 424-9839

#### **Signal Word**

**DANGER**

## SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Flammable liquids (Category 2). Highly flammable liquid and vapor (H225). Keep away from heat, sparks, open flames, and hot surfaces. No smoking (P210).

Hazard class: Aspiration hazard (Category 1). May be fatal if swallowed and enters airways (H304).

Hazard class: Skin corrosion or irritation (Category 2). Causes skin irritation (H315).

Hazard class: Specific target organ toxicity, single exposure; Narcotic effects (Category 3). May cause drowsiness or dizziness (H336). Avoid breathing mist, vapors or spray (P261).

### Pictograms





### SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
n-Heptane	142-82-5	C <sub>7</sub> H <sub>16</sub>	100.21	

### SECTION 4 — FIRST AID MEASURES

Call a POISON CENTER or physician if you feel unwell (P312).

**If inhaled:** Remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P340).

**If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.

**If on skin or hair:** Immediately remove all contaminated clothing. Rinse skin with water (P303+P361+P353).

**If swallowed:** Immediately call a POISON CENTER or physician (P301+P310). Do NOT induce vomiting (P331).

### SECTION 5 — FIRE FIGHTING MEASURES

Class IB flammable liquid.

Flash point: -4 °C Flammable limits: Lower: 1.05% Upper: 6.7% Autoignition Temperature: 204 °C

When heated to decomposition, may emit toxic fumes.

In case of fire: Use a tri-class dry chemical fire extinguisher (P370+P378).

### **NFPA Code**

H-1

F-3

R-0

## **SECTION 6 — ACCIDENTAL RELEASE MEASURES**

Remove all ignition sources and ventilate area. Contain the spill with sand or other inert absorbent material and deposit in a sealed bag or container. See Sections 8 and 13 for further information.

## **SECTION 7 — HANDLING AND STORAGE**

Flinn Suggested Chemical Storage Pattern: Organic #3. Store with hydrocarbons, oils, esters and aldehydes. Store in a dedicated flammables cabinet. If a flammables cabinet is not available, store in Flinn Saf-Stor™ can. Keep container tightly closed (P233). Keep cool (P235). Use only in a hood or well-ventilated area (P271). Ground or bond container and receiving equipment (P240). Use explosion-proof electrical and ventilating equipment (P241).

## **SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION**

Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling (P264). Use only in a hood or well-ventilated area (P271).

Exposure guidelines: PEL 500 ppm (OSHA) TLV 400 ppm (1640 mg/m<sup>3</sup>) Ceiling 500 ppm (ACGIH)

## **SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

Clear, colorless liquid. Odor like paint thinner.

Boiling point: 98.4 °C

Soluble: Alcohol, ether, and chloroform. Insoluble in water.

Melting point: -90.55 °C

Refractive index: 1.3855

Specific gravity: 0.6795

## **SECTION 10 — STABILITY AND REACTIVITY**

Avoid contact with strong oxidizers, open flame, or any source of ignition.

Shelf life: Good, if stored properly.

## SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Dizziness, stupor, incoordination,  
nausea; dermatitis,

Chronic effects: N.A.

Target organs: Skin, respiratory system, central  
nervous system

ORL-RAT LD<sub>50</sub>: N.A.

IHL-RAT LC<sub>50</sub>: 103 g/m<sup>3</sup>/4H

SKN-RBT LD<sub>50</sub>: N.A.

## SECTION 12 — ECOLOGICAL INFORMATION

Data not yet available.

## SECTION 13 — DISPOSAL CONSIDERATIONS

Please review all federal, state and local regulations that may apply before proceeding.

Flinn Suggested Disposal Method #18b is one option.

## SECTION 14 — TRANSPORT INFORMATION

Shipping name: Heptanes. Hazard class: 3, Flammable liquid. UN number: UN1206.

## SECTION 15 — REGULATORY INFORMATION

TSCA-listed, EINECS-listed (205-563-8), RCRA code D001.

## SECTION 16 — OTHER INFORMATION

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N.A. = Not available, not all health aspects of this substance have been fully investigated.

N/A = Not applicable