

# FLINN SCIENTIFIC, INC.

## Material Safety Data Sheet (MSDS)

MSDS #: 386.00

Revision Date: July 12, 2010

### 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) 424-9300

### SECTION 2 — COMPOSITION, INFORMATION ON INGREDIENTS

n-Heptane

CAS#: 142-82-5

### SECTION 3 — HAZARDS IDENTIFICATION

Clear colorless liquid. Odor of paint thinner.  
Slightly toxic by inhalation. Body tissue irritant. Avoid all body contact.  
Flammable liquid. Dangerous fire risk.

#### FLINN AT-A-GLANCE

Health-1  
Flammability-3  
Reactivity-0  
Exposure-1  
Storage-3

0 is low hazard, 3 is high hazard

### SECTION 4 — FIRST AID MEASURES

Call a physician and seek medical attention for further treatment, observation, and support after first aid.  
Inhalation: Remove to fresh air at once. If breathing has stopped, give artificial respiration immediately.  
Eye: Immediately flush with fresh water for at least 15 minutes.  
External: Wash continuously with fresh water for at least 15 minutes.  
Internal: Rinse mouth out with water. Give mixture of 2 Tbs. of activated charcoal mixed with one cup of water. Call a physician or poison control at once.

### SECTION 5 — FIRE FIGHTING MEASURES

Class IB flammable liquid.  
Flash Point: 30 °F Upper: 7% Lower: 1.1% Autoignition Temperature: 595 °F  
When heated to decomposition, emits acrid smoke and irritating fumes.  
**Fire Fighting Instructions:** Use a triclass, dry chemical fire extinguisher. Firefighters should wear PPE and SCBA with full facepiece operated in positive pressure mode.

#### NFPA CODE

H-1  
F-3  
R-0

### SECTION 6 — ACCIDENTAL RELEASE MEASURES

Restrict unprotected personnel from the area. 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, esters, and aldehydes.  
Store in a cool, dry place. Store in flammables cabinet.

### SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Avoid contact with eyes, skin, and clothing. Wear chemical splash goggles, chemical-resistant gloves, and a chemical-resistant apron. Use ventilation to keep airborne concentrations below exposure limits. Always wear a NIOSH-approved respirator with proper cartridges or a positive pressure, air-supplied respirator when handling this material in emergency situations (spill or fire).  
Exposure guidelines: TWA 500 ppm, STEL 500 ppm (OSHA, ACGIH)

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**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

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Clear, colorless liquid with an odor like paint thinner.  
Solubility: Soluble in alcohol. Insoluble in water.  
Formula:  $C_7H_{16}$   
Formula Weight: 100.23

Boiling Point: 98 °C  
Melting Point: -91 °C  
Specific Gravity: 0.68

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**SECTION 10 — STABILITY AND REACTIVITY**

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Avoid contact with strong oxidizers, open flame, or any source of ignition.  
Shelf life: Good, if stored safely.

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**SECTION 11 — TOXICOLOGICAL INFORMATION**

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Acute effects: Harmful liquid, irritant, nausea, dizziness, headache.	ORL-RAT LD <sub>50</sub> : N.A.
Chronic effects: N.A.	IHL-MUS LC <sub>50</sub> : 75 g/m <sup>3</sup> /2H
Target organs: N.A.	SKN-RBT LD <sub>50</sub> : N.A.

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

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**SECTION 12 — ECOLOGICAL INFORMATION**

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Data not yet available.

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**SECTION 13 — DISPOSAL CONSIDERATIONS**

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Please consult with state and local regulations.  
Flinn Suggested Disposal Method #18a is one option.

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**SECTION 14 — TRANSPORT INFORMATION**

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Shipping Name: Heptanes  
Hazard Class: 3, Flammable liquid  
UN Number: UN1206  
N/A = Not applicable

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**SECTION 15 — REGULATORY INFORMATION**

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

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**SECTION 16 — OTHER INFORMATION**

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**Consult your copy of the *Flinn Science Catalog/Reference Manual*  
for additional information about laboratory chemicals.**