

# FLINN SCIENTIFIC, INC.

## Material Safety Data Sheet (MSDS)

MSDS #: 389.00

Revision Date: August 18, 2011

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### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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#### Hexanes

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

CHEMTREC Emergency Phone Number: (800) 424-9300

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### SECTION 2 — COMPOSITION, INFORMATION ON INGREDIENTS

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Hexanes

CAS#: 110-54-3

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### SECTION 3 — HAZARDS IDENTIFICATION

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Colorless liquid. Paint thinner odor.

Irritant to body tissues. Mildly toxic by inhalation. Avoid all body contact.

Flammable liquid.

#### FLINN AT-A-GLANCE

Health-1

Flammability-3

Reactivity-0

Exposure-1

Storage-3

0 is low hazard, 3 is high hazard

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### SECTION 4 — FIRST AID MEASURES

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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 or External: Immediately flush with fresh water for at least 15 minutes.

Internal: Do NOT induce vomiting. Rinse mouth. Give large quantities of water for dilution. If vomiting occurs, ensure vomit is not aspirated. Call a physician or poison control at once.

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### SECTION 5 — FIRE FIGHTING MEASURES

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Class IA flammable liquid.

Flash point: -23 °C Flammable limits: Lower: 1.2% Upper: 7.7% Autoignition Temperature: 250 °C

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

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### SECTION 6 — ACCIDENTAL RELEASE MEASURES

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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.

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### SECTION 7 — HANDLING AND STORAGE

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Flinn Suggested Chemical Storage Pattern: Organic #3. Store with hydrocarbons, esters, and aldehydes.

Store in a cool, dry place. Use and dispense in a hood.

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### SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

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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: PEL 500 ppm (as n-hexane) (OSHA)

**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

Colorless liquid with an odor like paint thinner.  
Solubility: Soluble in alcohol, acetone, and ether, but not water.  
Formula: C<sub>6</sub>H<sub>14</sub>  
Formula weight: 86.175

Boiling point: 69 °C  
Melting point: -95 °C  
Refractive index: 1.3727  
Specific gravity: 0.66

**SECTION 10 — STABILITY AND REACTIVITY**

Avoid contact with strong oxidizers, chlorine, fluorine, and magnesium perchlorate.  
Shelf life: Indefinite, if stored properly.

**SECTION 11 — TOXICOLOGICAL INFORMATION**

Acute effects: Harmful vapor, irritant, coughing, chest pains, difficulty breathing, lung irritation, and edema, which may be fatal.  
Chronic effects: Neurological hazard.  
Target organs: N.A.

ORL-RAT LD<sub>50</sub>: 28710 mg/kg  
IHL-RAT LC<sub>50</sub>: 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.

**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 #18a is one option.

**SECTION 14 — TRANSPORT INFORMATION**

Shipping name: Hexanes  
Hazard class: 3, Flammable liquid  
UN number: UN1208  
N/A = Not applicable

**SECTION 15 — REGULATORY INFORMATION**

TSCA-listed, EINECS-listed (203-777-6), RCRA code D001.

**SECTION 16 — OTHER INFORMATION**

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