FLINN SCIENTIFIC, INC.
Material Safety Data Sheet (MSDS)

MSDS #: 386.00

Revision Date: August 18, 2011

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 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.

SECTION 5 — FIRE FIGHTING MEASURES

Class IB flammable liquid.
Flash point: -1 °C Flammable limits: Lower: 1.1% Upper: 7% Autoignition Temperature: 313 °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

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: REL 85 ppm, Ceiling 440 ppm (NIOSH)

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SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Clear, colorless liquid with an odor like paint thinner.
Solubility: Soluble in alcohol. Insoluble in water.
Formula: C_7H_{16}
Formula weight: 100.202

Boiling point: 98.4 ^oC
Melting point: -90.55 ^oC
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: Harmful liquid, irritant, nausea, dizziness, headache.
Chronic effects: N.A.
Target organs: N.A.

ORL-RAT LD_{50}: N.A.
IHL-MUS LC_{50}: 75 $g/m^3/2H$
SKN-RBT LD_{50}: 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: Heptanes
Hazard class: 3, Flammable liquid
UN number: UN1206
N/A = Not applicable

SECTION 15 — REGULATORY INFORMATION

TSCA-listed, EINECS-listed (205-563-8), 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.

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