

# FLINN SCIENTIFIC, INC.

## Material Safety Data Sheet (MSDS)

MSDS #: 584.00

Revision Date: July 13, 2011

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### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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#### Petroleum Ether

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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Petroleum Ether

Synonyms: ligroine, naphtha

CAS#: 8032-32-4

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### SECTION 3 — HAZARDS IDENTIFICATION

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Clear, colorless liquid. Natural gas-like odor.

Irritating to body tissues. Avoid body tissue contact.

Flammable liquid. Serious fire risk.

#### FLINN AT-A-GLANCE

Health-0

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. If vomiting occurs, ensure vomit is not aspirated into the lungs. 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: -49 °C Flammable limits: Lower: 1.1% Upper: 8% Autoignition Temperature: 246 °C

**Fire Fighting Instructions:** Use triclass, dry chemical fire extinguisher. Firefighters should wear PPE and SCBA with full facepiece operated in positive pressure mode.

#### NFPA CODE

H-1

F-4

R-0

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### SECTION 6 — ACCIDENTAL RELEASE MEASURES

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Restrict unprotected personnel from area. Remove all ignition sources and ventilate area. Contain spill with sand or other inert absorbent material; deposit in 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, aldehydes, and oils.

Store in a dedicated flammables cabinet. If a flammables cabinet is not available, store in Flinn Saf-Stor Can.

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 chemical-resistant apron. Use exhaust ventilation to keep airborne concentrations low.

Exposure Guidelines: REL 350 mg/m<sup>3</sup>, Ceiling 1800 mg/m<sup>3</sup> (NIOSH)

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**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

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Water-white liquid. Natural gas-like odor.

Solubility: Insoluble with water. Miscible with many organic solvents.

Not an ether, a low boiling fraction of petroleum distillate.

Boiling point: 36-60 °C

Specific gravity: 0.640

Vapor density: 2.5

Vapor pressure: 400 mmHg

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**SECTION 10 — STABILITY AND REACTIVITY**

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Avoid contact with strong oxidizers.

Shelf life: Indefinite, if stored properly.

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**SECTION 11 — TOXICOLOGICAL INFORMATION**

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Acute effects: Toxic, irritant

Chronic effects: Possible mutagen

Target organs: Central nervous system

ORL-RAT LD<sub>50</sub>: >5 g/kg

IHL-RAT LC<sub>50</sub>: N.A.

SKN-RBT LD<sub>50</sub>: >3 g/kg

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

Flinn Suggested Disposal Method #18a is one option.

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**SECTION 14 — TRANSPORT INFORMATION**

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Shipping name: Petroleum Distillates, N.O.S.

Hazard class: 3, Flammable liquid

UN number: UN1268

N/A = Not applicable

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**SECTION 15 — REGULATORY INFORMATION**

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TSCA-listed, EINECS-listed (232-453-7), 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.**