

# FLINN SCIENTIFIC, INC.

## Material Safety Data Sheet (MSDS)

MSDS #: 531.00

Revision Date: December 7, 2011

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### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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#### Naphthalene

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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Naphthalene

CAS#: 91-20-3

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### SECTION 3 — HAZARDS IDENTIFICATION

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White, volatile flakes, cubes, spheres or powder. Odor of moth balls.  
Possible human carcinogen (IARC-2B). Moderately toxic by inhalation, ingestion, and skin contact.  
Irritating to body tissues. Avoid body tissue contact.

#### FLINN AT-A-GLANCE

Health-2  
Flammability-1  
Reactivity-0  
Exposure-1  
Storage-0

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: Rinse mouth. Give large quantities of water for dilution. Call a physician or poison control at once.

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### SECTION 5 — FIRE FIGHTING MEASURES

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Combustible solid.  
Flash point: 79 °C Flammable limits: Lower: 0.9% Upper: 5.9% Autoignition Temperature: 526 °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-2  
F-2  
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 water. Sweep up the spill, place in a sealed bag or container, and dispose. Ventilate area and wash spill site after material pickup is complete. 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 10 ppm, STEL 15 ppm (OSHA, ACGIH)

**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

White, volatile flakes, cubes, sphere or powder. Odor of moth balls.  
Solubility: Soluble in absolute alcohol and ether; insoluble in water.  
Formula: C<sub>10</sub>H<sub>8</sub>  
Formula weight: 128.17

Boiling point: 217.9 °C  
Melting point: 80.2 °C  
Specific gravity: 1.0253  
Vapor density: 4.4

**SECTION 10 — STABILITY AND REACTIVITY**

Shelf life: Volatile flakes, keep tightly closed.

**SECTION 11 — TOXICOLOGICAL INFORMATION**

Acute effects: Toxic, irritant  
Chronic effects: Possible carcinogen.  
Target organs: Eyes, blood, kidneys

ORL-RAT LD<sub>50</sub>: 490 mg/kg  
IHL-RAT LC<sub>50</sub>: N.A.  
SKN-RAT LD<sub>50</sub>: >2500 mg/kg

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 #18b is one option.

**SECTION 14 — TRANSPORT INFORMATION**

Shipping name: Naphthalene, refined  
Hazard class: 4.1, Flammable solid  
UN number: UN1334  
N/A = Not applicable

**SECTION 15 — REGULATORY INFORMATION**

TSCA-listed, EINECS-listed (202-049-5), RCRA code U165.

**SECTION 16 — OTHER INFORMATION**

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