

# FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

## Material Safety Data Sheet (MSDS)

MSDS #: 192.00

Revision Date: March 15, 2001

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### Section 1 — Chemical Product and Company Identification

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#### Calcium Metal

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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Calcium

CAS#: 7440-70-2

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### Section 3 — Hazards Identification

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Silver-white; soft metal.

Corrosive solid. Avoid body tissue contact. Violent reaction with water may evolve explosive hydrogen gas. Flammable solid.

#### FLINN AT-A-GLANCE

Health-1  
Flammability-3  
Reactivity-2  
Exposure-1  
Storage-2

0 is low hazard, 3 is high hazard

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### Section 4 — First Aid Measures

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Call a physician, 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 15 minutes.

External: Wash continuously with fresh water for 15 minutes.

Internal: Give large quantities of water. Call a physician or poison control at once.

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### Section 5 — Fire Fighting Measures

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Flammable solid.

Violent reaction with water. Produces hydrogen.

**Fire Fighting Instructions:** Use Class D, Met-L-X, or dry sand as a fire extinguisher. Avoid water contact, violent reaction with water. Firefighters should wear PPE and SCBA with full facepiece operating in positive mode.

#### NFPA CODE

H-1  
F-1  
R-2  
No Water

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### Section 6 — Accidental Release Measures

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Restrict unprotected personnel from area. Remove all ignition sources and water. Sweep up, place in 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: Inorganic #1. Store with metals and metal hydrides.

Protect from air. Moisture sensitive material. Store in a Flinn Chem-Saf bag and then inside a Flinn Saf-Stor can.

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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.

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### Section 9 — Physical and Chemical Properties

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Silver-white, soft metal.

Solubility: Alkaline earth element. Soluble in acid.

Decomposes in water to liberated hydrogen.

Formula: Ca

Formula Weight: 40.08

Specific Gravity: 1.55

Melting Point: 842 C

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### Section 10 — Stability and Reactivity

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Highly reactive with water and oxidizing agents. Contact with water will evolve extremely flammable hydrogen gas.

Shelf life: Good, but only if stored under airtight conditions.

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### Section 11 — Toxicological Information

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Acute effects: Corrosive

Chronic effects: N.A.

Target organs: N.A.

ORL-RAT LD50: N.A.

IHL-RAT LC50: N.A.

SKN-RBT LD50: 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 #3 is one option.

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### Section 14 — Transport Information

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Shipping Name: Calcium

Hazard Class: 4.3, Dangerous when wet

UN Number: UN1401

N/A = Not applicable

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### Section 15 — Regulatory Information

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TSCA-listed, EINECS-listed (231-179-5), RCRA code D001, D003.

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### Section 16 — Other Information

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Consult your copy of the Flinn Scientific Catalog/Reference Manual for additional information about laboratory chemicals. This Material Safety Data Sheet (MSDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. Flinn Scientific Inc. assumes no legal responsibility for use or reliance upon this data.

**FLINN SCIENTIFIC INC.**

"Your Safer Source for Science Supplies"

*Flinn Chemical Packaging Prevents Accidents*

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