

FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

Material Safety Data Sheet (MSDS)

MSDS #: 185.00

Revision Date: November 25, 2002

Section 1 — Chemical Product and Company Identification

Cadmium

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

Cadmium

CAS#: 7440-43-9

Section 3 — Hazards Identification

Silvery, lustrous metal. Metal tarnishes in moist air. Odorless.

A known carcinogen. Highly toxic by ingestion and inhalation. Avoid breathing dust. Body tissue irritant.

Fire hazard in dust form. When heated to a high temperature, it emits toxic fumes of Cd.

FLINN AT-A-GLANCE

Health-3

Flammability-0

Reactivity-0

Exposure-3

Storage-2

0 is low hazard, 3 is high hazard

Section 4 — First Aid Measures

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: Rinse out mouth, give 1 to 2 cups of water or milk, induce vomiting. Call a physician or poison control at once.

Section 5 — Fire Fighting Measures

Non-combustible solid in bulk form, but fire hazard in dust form.

When heated to a high temperature, it emits toxic fumes of Cd.

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

None Established

Section 6 — Accidental Release Measures

Restrict unprotected personnel from area. 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.

Section 7 — Handling and Storage

Flinn Suggested Chemical Storage Pattern: Inorganic #1. Store with metals and metal hydrides.

Store in a cool dry place. Store in a Flinn Saf-Stor can. Use and dispense in a hood.

Section 8 — Exposure Controls, Personal Protection

Avoid contact with eyes, skin and clothing. Wear chemical splash goggles, chemical-resistant gloves and 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: TWA 0.2 mg/m³ (OSHA)

Section 9 — Physical and Chemical Properties

Silvery, lustrous metal. Metal tarnishes in moist air. Odorless.
Solubility: Insoluble in water. Soluble in acids especially nitric acid. Soluble in ammonium nitrate solutions.

Formula: Cd

Formula Weight: 112.40

Specific Gravity: 8.65

Melting Point: 321 C

Section 10 — Stability and Reactivity

Avoid contact with oxidizers, acids and potassium. Avoid as fume or dust. Avoid use entirely on school premises unless you expect to practice strict hygiene.

Shelf life: Indefinite.

Section 11 — Toxicological Information

Acute effects: Highly toxic, stomach pains, vomiting, diarrhea, lung irritation, chest pain and edema which may be fatal.

Chronic effects: Carcinogen

Target organs: Lungs, kidneys

ORL-RAT LD50: 225 mg/Kg

IHL-RAT LC50: 25 mg/m³/30 m

SKN-RBT LD50: 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 consult with state and local regulations.

Flinn Suggested Disposal Method #27d is one option.

Section 14 — Transport Information

Shipping Name: Cadmium Compounds

Hazard Class: 6.1, Keep away from food

UN Number: UN2570

N/A = Not applicable

Section 15 — Regulatory Information

TSCA-listed, EINECS-listed (231-152-8), RCRA code D006.

Section 16 — Other Information

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.

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Flinn Chemical Packaging Prevents Accidents

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