

FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

Material Safety Data Sheet (MSDS)

MSDS #: 187.00

Revision Date: November 25, 2002

Section 1 — Chemical Product and Company Identification

Cadmium Chloride

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 Chloride

CAS#: 10108-64-2

Section 3 — Hazards Identification

Fine, white to colorless crystals. Odorless.

Highly toxic if swallowed or inhaled. Irritant to body tissue. Avoid this substance at school.

A known carcinogen. Avoid breathing dust.

When heated to decomposition, emits very toxic fumes of Cd and Cl₂.

FLINN AT-A-GLANCE

Health-3

Flammability-0

Reactivity-0

Exposure-3

Storage-1

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

Section 5 — Fire Fighting Measures

Non flammable solid except as dust.

When heated to decomposition, emits very toxic fumes of Cd and Cl₂.

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 #2. Store with acetates, halides, sulfates, sulfites, thiosulfates and phosphates. Store in a cool dry place. Store in a Flinn Chem-Saf bag. 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 for Cd: TWA 0.2 mg/m³ (OSHA)

Section 9 — Physical and Chemical Properties

Fine, white to colorless crystals, odorless.
Solubility: Water soluble. Acetone soluble.
Formula: CdCl₂ 5/2 H₂O
Formula Weight: 228.34

Specific Gravity: 3.327
Melting Point: 568 C

Section 10 — Stability and Reactivity

Avoid entirely the use of this substance on school premises unless you expect to practice strict hygiene in your school laboratory. This substance is **not** for student use. Avoid contact with strong oxidizers. Reacts violently with potassium.
Shelf life: Indefinite.

Section 11 — Toxicological Information

Acute effects: Highly toxic, nausea, headache and vomiting
Chronic effects: Carcinogen, teratogen, mutagen
Target organs: Kidneys, lungs

ORL-RAT LD50: 88 mg/kg
IHL-RAT LC50: 2300 mg/m³
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 #27f 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 (233-296-7), 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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