

# FLINN SCIENTIFIC, INC.

## Safety Data Sheet (SDS)

SDS #: 187.00

Revision Date: March 21, 2014

### 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

Signal Word **DANGER**

Pictograms



### SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Acute toxicity, oral (Category 3). Toxic if swallowed (H301). Do not eat, drink or smoke when using this product (P270).

Hazard class: Acute toxicity, inhalation (Category 1). Fatal if inhaled (H330).

Hazard class: Germ cell mutagenicity (Category 1). May cause genetic defects (H340). Obtain special instructions before use (P201). Do not handle until all safety precautions have been read and understood (P202).

Hazard class: Carcinogenicity (Category 1). May cause cancer (H350).

Hazard class: Specific target organ toxicity, repeated exposure (Category 1). Causes damage to organs (P372).

### SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

| Component Name   | CAS Number | Formula  | Formula Weight | Concentration |
|------------------|------------|--|----------------|---------------|
| Cadmium chloride | 10108-64-2 | $\text{CdCl}_2 \cdot \frac{1}{2} \text{H}_2\text{O}$ | 228.34         |               |

### SECTION 4 — FIRST AID MEASURES

Immediately call a POISON CENTER or physician (P312).

**If inhaled:** Remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P340).

**If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.

**If on skin:** Wash with plenty of water.

**If swallowed:** Rinse mouth (P330). Call a POISON CENTER or physician if you feel unwell.

### SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable solid except as dust.

When heated to decomposition, may emit toxic fumes.

**In case of fire:** Use a tri-class dry chemical fire extinguisher.

**NFPA CODE**  
None  
established

### SECTION 6 — ACCIDENTAL RELEASE MEASURES

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: Inorganic #2. Store with acetates, halides, sulfates, sulfites, thiosulfates and phosphates. Store in a cool, dry place. Store in a Flinn Chem-Saf™ bag. Keep container tightly closed (P233). Use only in a hood or well-ventilated area (P271).

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**SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION**

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Wear protective gloves, protective clothing, and eye protection. Wash hands thoroughly after handling (P264). Use only in a hood or well-ventilated area (P271). Use personal protective equipment as required (P281). Wear respiratory protection (P284). Exposure guidelines: (as Cadmium) PEL 0.005 mg/m<sup>3</sup> (OSHA) TLV 0.01 mg/m<sup>3</sup> (ACGIH)

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**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

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Fine, white to colorless crystals. Odorless.  
Soluble: Water and acetone

Melting point: 568 °C  
Specific gravity: 3.327

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**SECTION 10 — STABILITY AND REACTIVITY**

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Avoid 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, if stored properly.

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**SECTION 11 — TOXICOLOGICAL INFORMATION**

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

ORL-RAT LD<sub>50</sub>: 88 mg/kg  
IHL-RAT LC<sub>50</sub>: 2300 mg/m<sup>3</sup>  
SKN-RBT LD<sub>50</sub>: 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 review all federal, state and local regulations that may apply before proceeding.  
Flinn Suggested Disposal Method #27f is one option.

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**SECTION 14 — TRANSPORT INFORMATION**

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Shipping name: Cadmium Compounds. Hazard class: 6.1, Keep away from food. UN number: UN2570

N/A = Not applicable

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**SECTION 15 — REGULATORY INFORMATION**

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TSCA-listed, EINECS-listed (233-296-7), RCRA code D006.

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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.

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