

# FLINN SCIENTIFIC, INC.

## Safety Data Sheet (SDS)

SDS #: 185.00

Revision Date: January 26, 2016

### 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

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 2). Suspected of causing genetic defects (H341). Obtain special instructions before use (P201). Do not handle until all safety precautions have been read and understood (P202). Use personal protective equipment as required (P281).

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

Hazard class: Reproductive toxicity (Category 2). Suspected of damaging fertility or the unborn child (H361).

Hazard class: Specific target organ toxicity, repeated exposure (Category 1). Causes damage to organs (H372). Do not breathe dust or fumes (P260).

### SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Cadmium	7440-43-9	Cd	112.40	

### SECTION 4 — FIRST AID MEASURES

**If exposed or concerned:** Get medical advice or attention (P308+P313).

**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. Immediately call a POISON CENTER or physician (P301+P310+P330).

### SECTION 5 — FIRE FIGHTING MEASURES

Noncombustible solid in bulk form, but fire hazard in dust form.

When heated to a high temperature, may emit fumes of cadmium.

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

**NFPA CODE**  
None  
established

### SECTION 6 — ACCIDENTAL RELEASE MEASURES

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. Store in a cool, dry place. Store in a Flinn Saf-Stor™ can. 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). Wear respiratory protection (P284).

Exposure guidelines: 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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Silvery, lustrous metal. Metal tarnishes in moist air. Odorless.  
Soluble: Acids, especially nitric acid, and ammonium nitrate solutions. Insoluble in water.

Melting point: 321 °C  
Specific gravity: 8.65

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**SECTION 10 — STABILITY AND REACTIVITY**

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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, if stored properly.

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**SECTION 11 — TOXICOLOGICAL INFORMATION**

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

Chronic effects: Carcinogen.

Target organs: Lungs and kidneys.

ORL-RAT LD<sub>50</sub>: 225 mg/kg SKN-RBT LD<sub>50</sub>: N.A.  
IHL-RAT LC<sub>50</sub>: 25 mg/m<sup>3</sup>/30 m

*Cadmium is classified as an IARC Group 1-Carcinogenic to humans and NTP Known to be Human Carcinogens.*

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 #27d 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 (231-152-8), 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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