# FLINN SCIENTIFIC, INC. Material Safety Data Sheet (MSDS)

**MSDS #:** 189.00

**Revision Date:** December 7, 2011

#### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

# **Cadmium Sulfate**

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 sulfate

CAS#: 10124-36-4

#### **SECTION 3 — HAZARDS IDENTIFICATION**

White, crystalline powder or solid.

Known human carcinogen (IARC-1). Moderately toxic by inhalation and ingestion.

When heated to decomposition, emits toxic fumes of Cd and SO<sub>x</sub>.

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 and 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 or External: Immediately flush with fresh water for at least 15 minutes.

Internal: Rinse mouth. Give large quantities of water for dilution. Induce vomiting. Call a physician or poison control at once.

#### **SECTION 5 — FIRE FIGHTING MEASURES**

Nonflammable solid but may be flammable as dust.

Heating to decomposition releases toxic fumes of Cd and SO<sub>x</sub>.

**Fire Fighting Instructions:** Use a 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 the area and ventilate area. Contain the spill with sand or absorbent material and deposit in a sealed bag or container. 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, sulfates, 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: PEL 0.2 mg/m³ (OSHA)

FLINN SCIENTIFIC, INC.

Material Safety Data Sheet

**Cadmium Sulfate** 

MSDS #: 189.00

00

Revision Date: December 7, 2011

## **SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

White, crystalline powder or solid.

Solubility: Water soluble. Insoluble in alcohol.

Formula: 3CdSO<sub>4</sub> 8H<sub>2</sub>O Formula weight: 208.46 Specific gravity: 3.1

## **SECTION 10 — STABILITY AND REACTIVITY**

Avoid contact with strong oxidizers and heat. Shelf life: Indefinite, if stored properly.

#### **SECTION 11 — TOXICOLOGICAL INFORMATION**

Acute effects: Toxic, nausea, headache, and vomiting. Chronic effects: Reasonably anticipated to be a carcinogen. Target organs: Kidneys and lungs. ORL-RAT LD<sub>50</sub>: 280 mg/Kg IHL-RAT LC<sub>50</sub>: N.A. SKN-RBT LD<sub>50</sub>: 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 review all federal, state and local regulations that may apply, before proceeding. 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 (233-331-6), RCRA code D006.

#### **SECTION 16 — OTHER INFORMATION**

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. The data should not be confused with local, state, federal or insurance mandates, regulations, or requirements and CONSTITUTE NO WARRANTY. Any use of this data and information must be determined by the science instructor to be in accordance with applicable local, state or federal laws and regulations. The conditions or methods of handling, storage, use and disposal of the product(s) described are beyond the control of Flinn Scientific, Inc. and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).

# Consult your copy of the *Flinn Science Catalog/Reference Manual* for additional information about laboratory chemicals.