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. Known carcinogen (IARC-1). 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 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: Immediately flush with fresh water for at least 15 minutes.

External: Wash continuously with fresh water for at least 15 minutes.

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

SECTION 5 — FIRE FIGHTING MEASURES

Noncombustible solid in bulk form, but fire hazard in dust form.NFPA CODEWhen heated to a high temperature, it emits toxic fumes of Cd.NoneFire Fighting Instructions: Use a triclass, dry chemical fire extinguisher. Firefighters should wear PPE andestablishedSCBA with full facepiece operated in positive pressure mode.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Restrict unprotected personnel from the area. 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.

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. Specific Gravity: 8.65 Solubility: Insoluble in water. Soluble in acids, especially nitric acid. Melting Point: 321 °C Soluble in ammonium nitrate solutions. Formula: Cd Formula Weight: 112.40

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 ORL-RAT LD₅₀: 225 mg/Kg irritation, chest pain, and edema, which may be fatal. IHL-RAT LC₅₀: 25 mg/m³/30 m Chronic effects: Carcinogen. SKN-RBT LD₅₀: N.A. Target organs: Lungs and kidneys.

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

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.

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