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

MSDS #: 683.80

Revision Date: November 22, 2010

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Selenium

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

Selenium

CAS#: 7782-49-2

SECTION 3 — HAZARDS IDENTIFICATION

Reddish black powder.

Slightly toxic by ingestion, inhalation or absorbed through the skin. Body tissue irritant. Avoid all body tissue contact.

FLINN AT-A-GLANCE

Health-1 Flammability-1

Reactivity-0

Exposure-1 Storage-0

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: Do NOT induce vomiting. Rinse mouth. Give large quantities of water for dilution. Call a physician or poison control at once.

SECTION 5 — FIRE FIGHTING MEASURES

Combustible powder.

Fire and explosion risk in finely divided form. When heated, it will burn and emit highly toxic SeOx fumes.

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 #10. Store with sulfur and phophorus.

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 exhaust ventilation to keep airborne concentrations low.

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SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Reddish black powder.

Solubility: Insoluble in water.

Formula: Se

Formula Weight: 78.96

Specific Gravity: 4.81 Melting Point: 217 C

SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with oxidizers and contact with acids.

Shelf Life: Indefinite.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Slightly toxic

Chronic effects: Dermatitis, loss of hair

Target organs: Spleen, lungs, skin, liver

ORL-RAT LD50: 6700 mg/kg

IHL-RAT LC50: N.A.

EYE-HUM:

N.A. = Not available, not all health aspects of this substance have been fully investigated.

SECTION 12 — ECOLOGICAL INFORMATION

SECTION 13 — DISPOSAL CONSIDERATIONS

Please consult with state and local regulations.

Flinn Suggested Disposal Method #26a is one option.

SECTION 14 — TRANSPORT INFORMATION

Shipping Name: Selenium

Hazard Class: 9 UN Number:

N/A = Not applicable

SECTION 15 — REGULATORY INFORMATION

TSCA-listed, EINECS-listed (231-957-4).

SECTION 16 — OTHER INFORMATION

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