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

MSDS #: 693.00

Revision Date: September 28, 2011

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Silver Oxide

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

Silver Oxide

CAS#: 20667-12-3

SECTION 3 — HAZARDS IDENTIFICATION

Dark brown or black powder. Odorless.

Slightly toxic by ingestion. Body tissue irritant. Avoid inhaling dust; it may be irritating.

Fire and explosion risk in contact with organic materials or ammonia.

FLINN AT-A-GLANCE

Health-1 Flammability-0

Reactivity-1 Exposure-1

Storage-0

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. Induce vomiting. Call a physician or poison control at once.

SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable solid. Oxidizer.

Fire and explosion risk in contact with organic materials or NH₃.

Fire Fighting Instructions: Use triclass, dry chemical fire extinguisher. Firefighters should wear PPE and SCBA with full facepiece operated in positive mode.

NFPA Code None

established

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Restrict unprotected personnel from area. Do not allow solid to become airborne. Ventilate area and wipe up with wet toweling. Place in sealed bag or container and dispose. 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 #4. Store with hydroxides, oxides, silicates and carbonates. Store in a cool dry place.

Light sensitive.

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Avoid contact with eyes, skin, and clothing. Wear chemical splash goggles, chemical-resistant gloves, and chemical-resistant apron.

Exposure guidelines: TWA 0.01 mg/m³ (as Ag) (ACGIH)

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SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Dark brown or black, odorless powder.

Melting point: 200 °C (decomposes)

Solubility: Soluble in ammonium hydroxide, nitric acid, and sodium

thiosulfate solutions; slightly in water. Insoluble in alcohol.

Formula: Ag₂O

Formula weight: 231.735

Specific gravity: 7.2

SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with strong oxidizers, strong acids, ammonia, amines, and organic materials.

Shelf life: Indefinite, if stored properly., but light sensitive. Keep dry.

SECTION 11 — TOXICOLOGICAL INFORMATION

ORL-RAT LD₅₀: 2820 mg/kg Acute effects: Irritating dust Chronic effects: Argyrosis IHL-RAT LC₅₀: N.A. Target organs: N.A. SKN-RBT LD₅₀: 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 #26a is one option.

SECTION 14 — TRANSPORT INFORMATION

Shipping name: Not regulated

Hazard class: N/A UN number: N/A N/A = Not applicable

SECTION 15 — REGULATORY INFORMATION

TSCA-listed, EINECS-listed (243-957-1), RCRA code D011.

SECTION 16 — OTHER INFORMATION

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