

FLINN SCIENTIFIC, INC.

Material Safety Data Sheet (MSDS)

MSDS #: 76.00

Revision Date: July 8, 2011

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Antimony

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

Antimony

Synonym: Stibium

CAS#: 7440-36-0

SECTION 3 — HAZARDS IDENTIFICATION

Silver or gray lustrous metal or powder.

Highly toxic; may be fatal if swallowed.

Harmful if inhaled. Irritating to eyes, skin, and respiratory tract.

Avoid prolonged or repeated exposure. Use powder only in a chemical fume hood.

FLINN AT-A-GLANCE

Health-3

Flammability-1

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 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

Nonflammable, noncombustible solid. When heated or in contact with acid, emits toxic fumes of Stibine (SbH_3).

Dust or powder is a fire/moderate explosion risk when exposed to heat or flame. Autoignition Temp: 330 °C

Firefighting Instructions: Use graphite powder, sand or dolomite or Class D fire extinguishing material.

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. Avoid creating dust. Ventilate area. Wipe up with moist towels, place in a 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 #1. Store with metals and metal hydrides.

Use and dispense powder or dust in a hood.

Store in a cool, dry place.

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 0.5 mg/m³ IDLH 50 mg/m³ (OSHA, ACGIH)

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Silvery or gray lustrous metal.
Solubility: Insoluble in water.
Formula: Sb
Formula weight: 121.75

Boiling point: 1587 °C
Melting point: 630 °C
Specific gravity: 6.68

SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with oxidizers, acids, and halogens.
When heated or in contact with acid, emits toxic fumes of Stibine (SbH₃).
Shelf life: Indefinite, if stored properly.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Toxic, irritant.	ORL-RAT LD ₅₀ : 7 g/kg
Chronic effects: Kidney damage, liver damage.	IHL-RAT LC ₅₀ : N.A.
Target organs: Respiratory system, cardiovascular system, liver, kidneys.	SKN-RBT LD ₅₀ : N.A.

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

SECTION 12 — ECOLOGICAL INFORMATION

Toxic to aquatic organisms.

SECTION 13 — DISPOSAL CONSIDERATIONS

Please review all federal, state and local regulations that may apply, before proceeding.
Flinn Suggested Disposal Method #27d is one option.

SECTION 14 — TRANSPORT INFORMATION

Shipping name: Antimony Powder
Hazard class: 6.1, Keep away from food.
UN number: UN2871
N/A = Not applicable

SECTION 15 — REGULATORY INFORMATION

TSCA-listed, EINECS-listed (231-146-5).

SECTION 16 — OTHER INFORMATION

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