

FLINN SCIENTIFIC, INC.

Safety Data Sheet (SDS)

SDS #: 76.00

Revision Date: March 21, 2014

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

Signal Word **DANGER**

Pictograms



SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Acute toxicity, inhalation (Category 3). Toxic if inhaled (H331). Avoid breathing dust or fumes (P261).

SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Antimony	7440-36-0	Sb	121.75	
Synonym: Stibium				

SECTION 4 — FIRST AID MEASURES

Call a POISON CENTER or physician if you feel unwell.

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P340).

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.

If on skin: Wash with plenty of water.

If swallowed: Rinse mouth. Call a POISON CENTER or physician if you feel unwell.

SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable, noncombustible solid. When heated or in contact with acid, may emit toxic fumes of Stibine (SbH₃). Dust or powder is a fire/moderate explosion risk when exposed to heat or flame.

Autoignition Temp: 330 °C

In case of fire: Use graphite powder, sand or dolomite or Class D fire extinguishing material.

NFPA Code
None
established

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Do not allow solid to become airborne. 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.

Keep container tightly closed (P233). Use only in a hood or well-ventilated area (P271).

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection. Wash hands thoroughly after handling. Use only in a hood or well-ventilated area (P271).

Exposure guidelines: PEL/TLV 0.5 mg/m³ IDLH 50 mg/m³ (OSHA, ACGIH)

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Silvery or gray lustrous metal. Odorless.

Soluble: Insoluble in water.

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.

Chronic effects: Kidney damage, liver damage.

Target organs: Respiratory system, cardiovascular system, liver, kidneys.

ORL-RAT LD₅₀: 7 g/kg

IHL-RAT LC₅₀: 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

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.

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