

Safety Data Sheet (SDS)

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Antimony Trichloride

Signal Word
DANGER

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261

Chemtrec Emergency Phone Number: (800) 424-9437

Pictograms

SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Acute toxicity, oral (Category 4). Harmful if swallowed (H302). Do not eat, drink, or smoke when using this product (P270).



Hazard class: Skin corrosion or irritation (Category 1). Causes severe skin burns and eye damage (H314). Do not breathe dust or fume (P260).



SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Antimony trichloride	10025-91-9	SbCl ₃	228.13	
Synonyms: Butter of antimony; Antimonous chloride				

SECTION 4 — FIRST AID MEASURES

Immediately call a POISON CENTER or physician (P310).

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

If on skin: Immediately remove all contaminated clothing. Rise skin with water (P303+P361+P353).

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present, and continue rinsing (P305+P351+P338).

If swallowed: Rinse mouth (P330). Do NOT induce vomiting (P331).

SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable solid.

Corrosive reacts vigorously with water generating hydrochloric acid.

When heated to decomposition, may emit toxic fumes.

NFPA Code
None established

In case of fire: Use a tri-class dry chemical fire extinguisher.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Remove all ignition sources and water. 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 #2. Store with acetates, halides, sulfates, sulfites, thiosulfates and phosphates. Very hygroscopic. Store in Flinn Chem-Saf™ bag, and then inside a Flinn Saf-Stor™ can. Use only in a well-ventilated area or in a hood.

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling. Use only in a well-ventilated area or in a hood.

Exposure guidelines: PEL/TLV 0.5 mg/m³; IDLH 50 mg/m³

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

White or gray, crystalline solid. Chlorine-like odor.	Boiling point: 220 °C
Soluble: Water 10% (reaction), alcohol, and chloroform.	Melting point: 73 °C
	Specific gravity: 3.1

SECTION 10 — STABILITY AND REACTIVITY

The poison gas stibine is formed by the action of acidic reducing agents on antimony compounds. Fumes at room temperature.

When heated to decomposition, emits toxic fumes of Cl and Sb.

Shelf life: Poor, very hygroscopic. See Section 7 for further information.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Corrosive, toxic.	ORL-RAT LD ₅₀ : 525 mg/kg
Chronic effects: Possible mutagen.	IHL-RAT LC ₅₀ : N.A.
Target organs: N.A.	SKN-RBT LD ₅₀ : N.A.

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 #27d is one option.

SECTION 14 — TRANSPORT INFORMATION

Shipping name: Antimony trichloride, solid. Hazard class: 8, Corrosive. UN number: UN1733.

SECTION 15 — REGULATORY INFORMATION

TSCA-listed, EINECS-listed (233-047-2), RCRA code D002, D003.

SECTION 16 — OTHER INFORMATION

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

N/A = Not applicable

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

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