



# SAFETY DATA SHEET

ProChemOnline.com



## SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Antimony (III) chloride**  
PRODUCT NUMBER: 1108  
CAS NUMBER: 10025-91-9  
SYNONYM: Antimony trichloride, trichlorostibane, antimonous chloride

### MANUFACTURER:

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## SECTION 2 HAZARDS IDENTIFICATION

### CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

**Danger**

### Hazard Statements

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H411	Toxic to aquatic life with long lasting effects.

### Precautionary Phrases

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

### HMIS CLASSIFICATION:

Health: 3      Flammability: 0      Reactivity: 0

### NFPA RATING:

Health: 3      Fire: 0      Reactivity Hazard: 0

## SECTION 2 HAZARDS IDENTIFICATION (Cont.)

**EYE CONTACT:** Causes eye burns

**SKIN CONTACT:** Harmful if absorbed

**INHALATION:** May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

**INGESTION:** Harmful if swallowed

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: SbCl<sub>3</sub>

Molecular Weight: 228.13

CHEMICAL NAME	CAS#	%	(TWA)
Antimony (III) chloride	10025-91-9	100	0.5

## SECTION 4 FIRST AID MEASURES

**EYE EXPOSURE:** Check for and remove contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

**SKIN EXPOSURE:** Immediately flush skin with plenty of soap and water. Consult a physician

**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

**INGESTION:** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Rinse mouth with water. Get medical attention.

## SECTION 5 FIREFIGHTING MEASURES

**FLASH POINT:** Not available

**AUTO IGNITION TEMPERATURE:** Not available

**EXPLOSION LIMITS:** Not available

**EXTINGUISHING MEDIUM:** Carbon dioxide, extinguishing powder or foam.

**SPECIAL FIRE FIGHTING PROCEDURES:** If involved in fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing.

**HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS:** Hydrogen chloride gas and antimony oxide

## SECTION 6 ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** Avoid dust formation. Always wear personal protective equipment.

**ENVIRONMENTAL PRECAUTIONS:** Prevent any further leakage. Do not let enter drains. Do not allow to be released into environment.

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:** Avoid creating dust. Keep container tightly closed and store in a cool, well-ventilated area.

## SECTION 7 HANDLING AND STORAGE

**PRECAUTIONS FOR SAFE HANDLING:** Avoid contact with skin and eyes. Be sure to use appropriate exhaust. Avoid formation of dust. Do not ingest.

**CONDITIONS FOR SAFE STORAGE:** Keep container tightly closed and store in a cool, well-ventilated area. Store under inert gas.

## SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

**EYE PROTECTION:** Always wear approved safety glasses with side shields, or safety goggles, face shield when handling a chemical substance in the laboratory.

**SKIN PROTECTION:** Wear appropriate gloves to prevent skin exposure.

**VENTILATION:** Handle in an efficient chemical fume hood.

## SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION (Cont.)

**RESPIRATOR:** Wear an approved dust respirator. The use of respirators requires a Respirator Protection Program to be in compliance with 29 CFR 19-10.134.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**COLOR AND FORM:** White solid

**MOLECULAR WEIGHT:** 228.13

**BOILING POINT:** 223.5° C (dec.)

**MELTING POINT:** 73.4° C

**SPECIFIC GRAVITY:** 3.14 gm/ml

**VAPOR PRESSURE:** 1 hPa at 49° C. 0.28 hPa at 20° C

**SOLUBILITY:** Soluble 100 g/l (25° C)

## SECTION 10 STABILITY AND REACTIVITY

**STABILITY:** Reacts violently with water

**HAZARDOUS POLYMERIZATION:** Will not occur

**CONDITIONS TO AVOID:** Heat, Moisture and water.

**INCOMPATIBILITY:** Water/moisture, strong bases, oxidizing agents

**DECOMPOSITION PRODUCTS:** Antimony oxides and hydrogen chloride

## SECTION 11 TOXICOLOGICAL DATA

**RTECS:** CC4900000

**CARCINOGENIC EFFECTS:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen.

**MUTAGENIC EFFECTS:** No data

**TETRAOGENIC EFFECTS:** No data

**ACUTE TOXICITY:** LD50 Oral-rat-525 mg/kg

**GERM CELL MUTAGENICITY:** Genotoxicity in vitro – Hamster- Lungs, Micronucleus test. Genotoxicity in vitro – Hamster – Lungs, Sister chromatid exchange.

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

## SECTION 12 ECOLOGICAL DATA

Toxicity to fish- LC50 – Pimephales promelas (fathead minnow) – 9mg/l – 96 h.

Toxicity to daphnia and other aquatic invertebrates- LC50 – Daphnia magna (water flea) – 10.1 mg/l – 36 h

Toxicity to algae- IC50 – Tetrahymena pyriformis, Ciliate – 6 mg/l – 36 h

Do not allow material to reach ground water, water course, or sewage. Danger to drinking water even if small quantities leak into the ground. May cause long lasting harmful effects to aquatic life.

## SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local state and federal regulations.

## **SECTION 14 TRANSPORTATION DATA**

Antimony trichloride, solid

Class 8

UN1733

PG II

## **SECTION 15 REGULATORY INFORMATION**

**TSCA:** Listed in the TSCA inventory

**SARA 313 COMPONENTS:** Antimony trichloride

**PENNSYLVANIA RIGHT TO KNOW COMPONENTS:** Antimony trichloride

**MASSACHUSETTS RIGHT TO KNOW COMPONENTS:** Antimony trichloride

**NEW JERSEY RIGHT TO KNOW COMPONENTS:** Antimony trichloride

## **SECTION 16 OTHER INFORMATION**

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**DATE UPDATED:** 09/20