



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:

ProChem, Inc.
826 Roosevelt Road
Rockford, IL 61109

PHONE: 815-398-1788
FAX: 815-398-1810
TOLL FREE: 800-795-8788

IN CASE OF TRANSPORTATION EMERGENCY CONTACT CHEM-TREC: 1-800-424-9300

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: SbCl₃

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

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

SOLUBILITY IN WATER: 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

DISCLAIMER: The information herein is believed to be accurate and reliable as of the date compiled. However, Prochem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

DATE UPDATED: 09/20