



SAFETY DATA SHEET

ProChemOnline.com



SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Antimony (V) chloride**

PRODUCT NUMBER: 1114

CAS NUMBER: 7647-18-9

SYNONYM: Antimony pentachloride

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.
H335	May cause respiratory irritation.

Precautionary Phrases

P260	Do not breathe dust/fume/gas/mist/vapour/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P284	Wear respiratory protection.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician.

EYE CONTACT: Causes eye burns.

SKIN CONTACT: Harmful if absorbed through skin. Causes skin burns.

INHALATION: Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

INGESTION: Harmful if swallowed.

SECTION 2 HAZARDS IDENTIFICATION (Cont.)

HMIS CLASSIFICATION:

Health: 3 Flammability: 0 Reactivity: 1

NFPA RATING:

Health: 3 Fire: 0 Reactivity Hazard: 1 Instability: 2 Physical Hazards: W

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: SbCl₅

Molecular Weight: 299.03

CHEMICAL NAME	CAS#	%	ACGIH (TLV)	OSHA (PEL)
Antimony (V) chloride	7647-18-9	100	0.5 mg/m ³ (as Sb)	0.5 mg/m ³ (as Sb)

SECTION 4 FIRST AID MEASURES

EYE EXPOSURE: Flush immediately with plenty of water, including under eyelids for at least 20 minutes. Seek immediate medical attention.

SKIN EXPOSURE: Remove contaminated clothing immediately. Wash affected areas with copious quantities of water and mild soap. Rinse with water. Seek medical attention.

INHALATION: Remove to fresh air. If not breathing, administer artificial resuscitation and supplemental oxygen. Get immediate medical attention.

INGESTION: Do NOT induce vomiting. Rinse mouth with water. Administer low-pressure oxygen if necessary, and keep warm. Administer artificial respiration if breathing has stopped. Seek immediate medical attention.

SECTION 5 FIREFIGHTING MEASURES

FLASH POINT: Not flammable or combustible.

AUTO IGNITION TEMPERATURE: Not available

EXPLOSION LIMITS: Not available

EXTINGUISHING MEDIUM: Dry chemical, sand, or carbon dioxide. Do not use water on antimony pentachloride itself. Avoid the use of water on surrounding materials. If water is necessary, use in flooding quantities.

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: Always wear personal protective equipment. Evacuate all personnel from affected area.

ENVIRONMENTAL PRECAUTIONS: Keep spilled material away from all water sources.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Do not use water directly on spilled material. Use water spray only as necessary to slow down vapors. Small amounts may be absorbed with inert sorbent and planed in a clean, dry, tightly closed container for disposal.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Use in areas with appropriate ventilation systems. Avoid contact with skin and eyes.

CONDITIONS FOR SAFE STORAGE: Store upright in a cool, dry, well-ventilated area of non-combustible construction away from heavily trafficked areas and emergency exits. Separate from water, acids, and alkalis. Store under inert gas. Air sensitive, reacts violently with water.

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: Protective gloves, apron, and boots.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION (Cont.)

VENTILATION: Handle in an efficient chemical fume hood.

RESPIRATOR: Wear an approved full 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: Clear liquid.

MOLECULAR WEIGHT: 299.03

BOILING POINT: 92° C

MELTING POINT: 2.8° C

SPECIFIC GRAVITY: 2.358 gm/ml

VAPOR PRESSURE: 1 mmHg @ 22.7° C

SOLUBILITY: Reacts with water

ODOR: Pungent

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Reacts with water or moist air. May react with metals and lead to the formation of flammable gas.

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: Heat and moisture.

INCOMPATIBILITY: Reacts violently with ammonia, bases, and other substances causing fire and explosion hazards. Decomposes on contact with water or moisture. Keep away from strong oxidizing agents, alcohols, metals, bases.

DECOMPOSITION PRODUCTS: Decomposes with heat, acids, or on contact with water or moist air. May react vigorously with alkalis. Hydrogen chloride gas, antimony oxide.

SECTION 11 TOXICOLOGICAL DATA

ACUTE TOXICITY: LD50- Oral- Rat – 1115mg/kg

RTECS: CC5075000

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

TETRAZOGENIC EFFECTS: No data

INHALATION LC50: The 2 hour LC₅₀ in the rat is 720 mg/m³.

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

SECTION 12 ECOLOGICAL DATA

ACUTE TOXICITY: No further relevant information available.

PERSISTENCE AND DEGRADABILITY: No further relevant information available.

BIOACCUMULATIVE POTENTIAL: No further relevant information available.

MOBILITY IN SOIL: No further relevant information available.

GENERAL NOTES: Toxic for aquatic organisms. Do not allow product to reach ground water, water course, or sewage systems. Do not allow material to be released to the environment without proper governmental permits. Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Toxic to aquatic life. May cause long lasting harmful effects to aquatic life. Avoid transfer into the environment.

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local state and federal regulations.

SECTION 14 TRANSPORTATION DATA

UN1730

Antimony pentachloride, liquid

Class 8

PG II

SECTION 15 REGULATORY INFORMATION

SARA 313 COMPONENTS: Antimony pentachloride

MASSACHUSETTS RIGHT TO KNOW COMPONENTS: Antimony pentachloride

PENNSYLVANIA RIGHT TO KNOW COMPONENTS: Antimony pentachloride

NEW JERSEY RIGHT TO KNOW COMPONENTS: Antimony pentachloride

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.

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