



SAFETY DATA SHEET

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SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Antimony (III) bromide**
PRODUCT NUMBER: 1102
CAS NUMBER: 7789-61-9
SYNONYM: Antimony tribromide, tribromostibane

MANUFACTURER:

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SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

Warning

Hazard Statements

H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H319	Causes serious eye irritation

Precautionary Phrases

P260	Do not breathe dust/fume/gas/mist/vapours/spray
P280	Wear protective gloves/protective clothing/eye protection/face protection
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/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
P312	Call a POISON CENTER or doctor/physician if you feel unwell.

HMIS CLASSIFICATION:

Health: 2

Flammability: 0

Reactivity: 2

NFPA RATING:

Health: 2

Fire: 0

Reactivity Hazard: 2

SECTION 2 HAZARDS IDENTIFICATION (Cont.)

EMERGENCY OVERVIEW: Severe irritant to skin and eyes. Material hydrolyzes in contact with moisture releasing toxic and corrosive fumes of hydrogen bromide and aqueous hydrobromic acid.

EYE CONTACT: May be a severe irritant to eyes.

SKIN CONTACT: May cause severe irritation of the skin, dermatitis, and skin eruptions.

INHALATION: Forms hydrogen bromide in the presence of moisture. Inhalation can lead to severe irritation of the respiratory tract.

INGESTION: Ingestion is unlikely due to pungent choking odor. No information is available on the acute physiological effects of ingestion.

CHRONIC HEALTH EFFECTS: Prolonged exposure to antimony compounds can cause dry throat, bleeding gums, laryngitis, headache, anemia, nervous complaints, and skin eruptions. Antimony compounds affect liver, kidney, and heart.

ACUTE HEALTH EFFECTS: May be irritating to skin, eyes, and respiratory tract and cause eye, skin burns, dyspnea (breathing difficulty), and pulmonary edema.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: SbBr_3

Molecular Weight: 361.48

CHEMICAL NAME	CAS#	%	ACGIH (TWA)	OSHA (PEL)
Antimony (III) bromide	7789-61-9	100	0.5 mg/m ³ (as Sb)	0.5 mg/m ³ (as Sb)

SECTION 4 FIRST AID MEASURES

EYE EXPOSURE: Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.

SKIN EXPOSURE: Wash affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.

INHALATION: Remove to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases seek immediate medical assistance.

INGESTION: Seek medical assistance immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.

SECTION 5 FIREFIGHTING MEASURES

FLASH POINT: Not flammable or combustible

AUTO IGNITION TEMPERATURE: None

EXPLOSION LIMITS: None

EXTINGUISHING MEDIUM: Carbon dioxide or dry powder. Do not use water.

SPECIAL FIRE FIGHTING PROCEDURES: If involved in a 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: If involved in a fire this material may emit toxic bromine, hydrobromic acid fumes, and antimony oxide.

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Always wear appropriate protective equipment. Ensure adequate ventilation.

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: Small spills can be mixed with powdered sodium carbonate and swept up.

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.

SECTION 7 HANDLING AND STORAGE (Cont.)

CONDITIONS FOR SAFE STORAGE: Store material in a tightly sealed bottle away from moisture. If possible, handle material in an efficient fume hood. Prolonged exposure to the atmosphere will lead to degradation of the product.

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: Chemical-resistant gloves.

VENTILATION: If possible, handle the material in an efficient fume hood.

RESPIRATOR: If in form of fine dust and ventilation is not available a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29 CFR 1910.134.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: Off-white powder

MOLECULAR WEIGHT: 361.48

BOILING POINT: 288° C

MELTING POINT: 96.6° C

SPECIFIC GRAVITY: 4.148 gm/ml

VAPOR PRESSURE: No data

SOLUBILITY: Reacts with water

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Moisture sensitive

HAZARDOUS POLYMERIZATION: No hazardous polymerization

CONDITIONS TO AVOID: Contact with moisture

INCOMPATIBILITY: Water, mineral acids, oxidizing agents, and active metals.

DECOMPOSITION PRODUCTS: With moisture: hydrogen bromide and antimony oxide

SECTION 11 TOXICOLOGICAL DATA

RTECS: No specific information available on this product

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

TETRATOGENIC EFFECTS: No data

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

SECTION 12 ECOLOGICAL DATA

No information available

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local state and federal regulations.

SECTION 14 TRANSPORTATION DATA

UN3260

Corrosive solid, acidic, inorganic, n.o.s.

Class 8

PG II

SECTION 15 REGULATORY INFORMATION

TSCA: Listed in the TSCA inventory

SARA 313 COMPONENTS: Antimony (III) Bromide

MASSACHUSETTES RIGHT TO KNOW COMPONENTS: Antimony (III) Bromide

PENNSYLVANIA RIGHT TO KNOW COMPONENTS: Antimony (III) Bromide

NEW JERSEY RIGHT TO KNOW COMPONENTS: Antimony (III) Bromide

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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