

MATERIAL SAFETY DATA SHEET

24 HR. EMERGENCY PHONE # CHEM-TREC 1-800-424-9300

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SECTION 1 Product Identification

CHEMICAL NAME: Tin (II) bromide
CAS #: 10031-24-0
FORMULA: SnBr₂
SYNONYM: Stannous bromide, Tin dibromide

SECTION 2 Composition and Information on Ingredients

INGREDIENT:	CAS #	%	ACGIH (TWA)	OSHA (PEL)
Title Compound	10031-24-0	100	2mg/m ³ (inorganic as Sn)	2mg/m ³ (inorganic as Sn)

SECTION 3 Hazards Identification

EMERGENCY OVERVIEW: Corrosive to skin, eyes and the respiratory tract. Small amounts of corrosive hydrobromic acid may form. Bromide exposure may cause central nervous system effects and skin rashes.

PRIMARY ROUTES OF EXPOSURE: Ingestion, inhalation, eyes and skin

EYE CONTACT: Corrosive to the eyes.

SKIN CONTACT: May form corrosive hydrobromic acid. Contact can lead to redness, pain, and ulceration.

INHALATION: Dust causes chemical burns to the respiratory tract. Symptoms may include coughing and shortness of breath.

INGESTION: May cause nausea, vomiting, abdominal pain, stomach bleeding, collapse and convulsions.

CHRONIC HEALTH EFFECTS: Repeated or prolonged exposure to bromides by any route may cause skin rashes (bromaderma) and central nervous system depression, including memory loss, irritability, and headache. Prolonged exposure to tin dust may result in benign pneumoconiosis.

ACUTE HEALTH EFFECTS: Symptoms of bromide ingestion may include skin rash, blurred vision, drowsiness, irritability, dizziness, mania, hallucinations, and coma.

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 the victim 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 applicable

AUTO IGNITION TEMPERATURE: none

EXPLOSION LIMITS: none

EXTINGUISHING MEDIUM: None. Material is non-flammable.

SPECIAL FIREFIGHTING 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: none

UNUSUAL FIRE OR EXPLOSION HAZARDS: No unusual fire or explosion hazards.

SECTION 6 Accidental Release Measures

SPILL AND LEAK PROCEDURES: Small spills can be mixed with powdered sodium bicarbonate, lime, or calcium carbonate and swept up. Avoid raising dust.

SECTION 7 Handling and Storage

HANDLING AND STORAGE: Store solid in a tightly sealed container away from moisture. Handle in a fume hood under a dry atmosphere of air or nitrogen. Prolonged exposure to the atmosphere may degrade the product.

SECTION 8 Exposure Controls and Personal Protection

EYE PROTECTION: Always wear approved safety glasses w/side shields, or safety goggles, face shield when handling a chemicals substance in the laboratory.

SKIN PROTECTION: Chemical-resistant.

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 19-10.134.

SECTION 9 Physical and Chemical Properties

COLOR AND FORM: gray powder

MOLECULAR WEIGHT: 278.51

MELTING POINT (DEG. C.): none

BOILING POINT: 620°

VAPOR PRESSURE: no data

SPECIFIC GRAVITY: 5.12

SOLUBILITY IN WATER: 85.2g/100cc(0°C)

SECTION 10 Stability and Reactivity

STABILITY: moisture sensitive

HAZARDOUS POLYMERIZATION: no hazardous polymerization

CONDITIONS TO AVOID: contact with moisture
INCOMPATIBILITY: active metals and chlorine
DECOMPOSITION PRODUCTS: none

SECTION 11 Toxicological Information

RTECS DATA: No information available in the RTECS files

MUTAGENIC EFFECTS: no data

TETRATOGENIC EFFECTS: no data

CARCINOGENIC EFFECTS: no data

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

SECTION 12 Ecological Information

ECOLOGICAL INFORMATION: No information available

SECTION 13 Disposal Considerations

DISPOSAL: Dispose of in according to local state and federal regulations.

SECTION 14 Transportation Information

Corrosive solids, n.o.s., Class 8, UN 1759, PG III

SECTION 15 Regulatory Information

TSCA: Listed in the TSCA inventory

SARA (TITLE 313): Title compound not listed

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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