Material Safety Data Sheet
Tin(IV) Chloride, 99.999%

Section 1 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: slightly yellow liquid.

**Danger!** Causes eye and skin burns. Causes digestive and respiratory tract burns.

**Target Organs:** Eyes, skin, mucous membranes.

**Potential Health Effects**

**Eye:** Contact with eyes may cause severe irritation, and possible eye burns.

**Skin:** May cause severe skin irritation with possible burns, especially if skin is wet or moist.

**Ingestion:** May cause severe digestive tract irritation with abdominal pain, nausea, vomiting and diarrhea. May cause corrosion and permanent tissue destruction of the esophagus and digestive tract.

**Inhalation:** Irritation may lead to chemical pneumonitis and pulmonary edema. May cause severe irritation of the upper respiratory tract with pain, burns, and inflammation.

**Chronic:** Prolonged or repeated skin contact may cause dermatitis. Chronic exposure to tin oxide dusts and fumes may result in stannosis (benign pneumoconiosis).

Section 2 - First Aid Measures

**Eyes:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid immediately.

**Skin:** In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid immediately. Wash clothing before reuse.

**Ingestion:** If swallowed, do NOT induce vomiting. Get medical aid immediately. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person.

**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

**Notes to Physician:** No specific antidote exists. Treat symptomatically and supportively.

Section 3 - Personal Protection

**Personal Protective Equipment**

**Eyes:** Wear chemical splash goggles.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or
European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

### Section 4 - Physical and Chemical Properties

**Physical State:** Liquid  
**Appearance:** slightly yellow  
**Odor:** Strong acrid odor.  
**pH:** Not available.  
**Boiling Point:** 114 deg C @ 760 mm Hg  
**Freezing/Melting Point:** -33 deg C  
**Decomposition Temperature:** Not available.  
**Solubility:** Soluble in water with much heat

### Section 5 - Stability and Reactivity

**Chemical Stability:** Stable under normal temperatures and pressures. May decompose on exposure to moist air or water. Liberates heat and hydrochloric acid on contact with water. Fumes in moist air.  
**Conditions to Avoid:** High temperatures, exposure to moist air or water.  
**Incompatibilities with Other Materials:** Strong bases, alcohols, amines, ethylene oxide, potassium, sodium, alkyl nitrates, turpentine.  
**Hazardous Decomposition Products:** Hydrogen chloride, tin/tin oxides.  
**Hazardous Polymerization:** Will not occur.