



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. SS 937  
Effective Date November 19, 1998

## SECTION V HEALTH HAZARD DATA

SS 937

**Threshold Limited Value** 2 mg/m<sup>3</sup> for Tin, oxide and inorganic compounds, except SnH<sub>4</sub>, as Sn. (ACGIH 1992-93).

**Effects of Overexposure**  
**INHALATION:** Contact will cause irritation of upper respiratory tract.  
**EYES AND SKIN:** Contact will cause severe irritation or burns.  
**INGESTION:** Contact may cause irritation and burns to mouth and stomach, headache, nausea, vomiting, dizziness and gastrointestinal irritation.

**Emergency and First Aid Procedures**  
**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Contact physician. **EYES:** Flush thoroughly with water for at least 15 minutes, raising the upper and lower eyelids occasionally. Get immediate medical attention. **SKIN:** Flush with water for 15 minutes, then wash area with mild soap and water. If irritation persists, get medical attention. **INGESTION:** If swallowed, if conscious, give one or two glasses of water to drink, and call physician. Do not induce vomiting. Never give fluids or induce vomiting if patient is unconscious or having convulsions.

## SECTION VI REACTIVITY DATA

<b>Stability</b>	<b>Unstable</b>		<b>Conditions to Avoid</b>	Hygroscopic. Absorbs oxygen from air and forms insoluble oxychloride. Avoid heat, flame and moisture.
	<b>Stable</b>	X		

**Incompatibility (Materials to Avoid)** Bromine trifluoride, and trichloride, nitrates, alkalies, alcohol, ammonia, sodium, potassium, strong oxidizing agents, carbides.

**Hazardous Decomposition Products** When exposed to moist air or heat, liberates tin oxide fumes and vapors of hydrogen chloride.

<b>Hazardous Polymerization</b>		<b>Conditions to Avoid</b>
<b>May Occur</b>	<b>Will Not Occur</b>	
	X	

Not applicable.

## SECTION VII SPILL OR LEAK PROCEDURES

**Steps to be taken in case material is released or spilled** Recover for use if not contaminated. May be hazardous to aquatic life if released to open waters. Carefully sweep up material and place in a clean, dry, covered container for disposal. Avoid creating a dusty atmosphere. After sweeping, flush spill area with water.

**Waste Disposal Method** Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only.

Dispose of in accordance with federal, state and local environmental regulations.

## SECTION VIII SPECIAL PROTECTION INFORMATION

**Respiration Protection (Specify Type)** None needed in normal laboratory handling. If dusty conditions prevail, work in ventilation hood or wear a NIOSH/MSHA-approved dust mask or respirator.

<b>Ventilation</b>	<b>Local Exhaust</b>	Recommended.	<b>Special</b>	No.
	<b>Mechanical (General)</b>	Recommended.	<b>Other</b>	No.

**Protective Gloves** Rubber. **Eye Protection** Chemical safety glasses.

**Other Protective Equipment** Goggles, lab coat, apron, ventilation hood, proper gloves, eye wash station.

## SECTION IX SPECIAL PRECAUTIONS

**Precautions to be Taken in Handling & Storing** Store in a cool, dry place away from oxidizing materials and alkali metals. Keep away from sparks and flame. Wash thoroughly after handling.  
Keep container tightly closed when not in use.

**Other Precautions** Read label on container before using. Do not wear contact lenses when working with chemicals.  
Avoid contact with eyes, skin and clothing. Avoid breathing dust. Use with adequate ventilation. Product is hygroscopic and will absorb moisture. Remove and wash contaminated clothing before reuse.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

<b>Revision</b> No. 5	<b>Date</b> 11/19/98	<b>Approved</b> Michael Raszeja	<b>Chemical Safety Coordinator</b> MR
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The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. \* Hazardous Materials Industrial Standards. Printed on recycled paper.

## SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

<b>Product</b>	STANNOUS CHLORIDE, DIHYDRATE	 <b>CHEMTREC</b> <b>800-424-9300</b> Day 716-226-6177  <b>NFPA HAZARD RATING</b> LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4  <b>HMIS *</b> HEALTH FIRE REACTIVITY 2 0 1
<b>Chemical Synonyms</b>	Tin Dichloride, Dihydrate	
<b>Formula</b>	SnCl <sub>2</sub> •2H <sub>2</sub> O	
<b>Unit Size</b>	up to 2.5 Kg.	
<b>C.A.S. No.</b>	10025-69-1	

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Stannous Chloride, Dihydrate	98-100%	As Sn 2 mg/m <sup>3</sup>
<b>DANGER! CORROSIVE!</b>		
<b>CAUSES IRRITATION. MAY CAUSE BURNS TO SKIN AND EYES.</b>		
<b>HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN.</b>		

## SECTION III PHYSICAL DATA

Melting Point (°F)	37°C (98°F)	Specific Gravity (H <sub>2</sub> O = 1)	2.71
Boiling Point (°F)	Decomposes.	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	N/A	Evaporation Rate ( =1)	N/A
Vapor Density (Air=1)	N/A		
Solubility in Water	Appreciable (>10%)		
Appearance & Odor	White flakes or crystals, fatty appearance; no odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

<b>Flash Point (Method Used)</b>	N/A	<b>Flammable Limits in Air % by Volume</b>	N/A	<b>Lower</b>	<b>Upper</b>
<b>Extinguisher Media</b>	Use extinguishing media appropriate for surrounding fire.				

### SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. In case of fire, soak with water.

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 154)

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers exposed to heat may explode. Fire or excessive heat may produce hazardous decomposition products; irritating fumes may develop when product is heated. Powerful reducing agent. Toxicity associated with stannous chloride solutions or mists is due primarily to the presence of dilute hydrochloric acid. When crystals or dust come in contact with moisture, dilute hydrochloric acid is formed.

D.O.T. Corrosive solids, n.o.s., (Stannous chloride, dihydrate), 8, UN 1759, PG III

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20