



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

1533 W. Henrietta Rd.  
Avon, New York 14414  
(716) 226-6177

MSDS No. SS 932  
Effective Date May 6, 1999

## SECTION V HEALTH HAZARD DATA

SS 932

### Threshold Limited Value

Airborne Exposure Limits: OSHA Permissible Exposure Limits (PEL): 2 mg (Sn)m<sup>3</sup> (TWA).  
ACGIH Threshold Limit Value (TLV): 2 mg (Sn)/m<sup>3</sup> (TWA); 4 mg (Sn)/m<sup>3</sup> (STEL).

### Effects of Overexposure

**TARGET ORGANS AFFECTED:** Kidneys, liver, brain. **INHALATION:** May cause irritation to the mucous membranes. Symptoms may include coughing, sore throat, and shortness of breath. **INGESTION:** May cause burning pain in mouth, nausea, vomiting, and diarrhea. May cause irritation and blistering to mucous membranes. **SKIN:** May cause redness, pain, blistering or burns. **EYE CONTACT:** May cause irritation, redness, pain, blurred vision, burns, and corneal damage.

### Emergency and First Aid Procedures

**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. **INGESTION:** If swallowed, do NOT induce vomiting. If conscious, give large quantities of water to drink. Call a physician immediately. Never give anything by mouth to an unconscious person. **SKIN:** Wash with mild soap and water. **EYES:** Flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

## SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Excessive heat and temperature. Direct sunlight.
	Stable	X		

Incompatibility (Materials to Avoid)	Water, acids, bases, oxidizers, reducing agents.
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Hazardous Decomposition Products	Emits toxic fumes of Carbon monoxide/dioxide, Hydrogen chloride and oxides of tin.
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Hazardous Polymerization	Conditions to Avoid
May Occur	Will Not Occur
	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. Wear protective safety equipment and use adequate ventilation. Avoid making dust. Sweep up and place in a suitable container for disposal. Small quantities may be dissolved in water and flushed to sewer with copious amounts of water.
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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.  Whatever cannot be saved for reclamation may be disposed in a RCRA approved hazardous waste facility.
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## 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.
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Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	Adequate to maintain below exposure limit.

Protective Gloves	Rubber.	Eye Protection	Chemical safety glasses.
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Other Protective Equipment	Goggles and shield, lab coat and apron, ventilation hood, proper gloves, eye wash station.
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## SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Keep container tightly closed when not in use. Store in a cool, dry place. Wash thoroughly after handling.
Other Precautions	Read label on container before using. Do not wear contact lenses when working with chemicals.  Do not get in eyes, on skin, or on clothing. Avoid breathing dust. Use with adequate ventilation. Remove and wash contaminated clothing.

Revision No. 5	Date 5/6/99	Approved Michael Raszeja	Chemical Safety Coordinator 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

Product	STANNIC CHLORIDE, HYDRATED LUMPS	 <p>CHEMTREC 800-424-9300 Day 716-226-6177</p> <p>NFPA HAZARD RATING</p> <table border="1"> <tr> <td>LEAST</td> <td>SLIGHT</td> <td>MODERATE</td> <td>HIGH</td> <td>EXTREME</td> </tr> <tr> <td>0</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> </table> <p>HMIS *</p> <table border="1"> <tr> <td>Health</td> <td>2</td> </tr> <tr> <td>Fire</td> <td>0</td> </tr> <tr> <td>Reactivity</td> <td>0</td> </tr> </table>	LEAST	SLIGHT	MODERATE	HIGH	EXTREME	0	1	2	3	4	Health	2	Fire	0	Reactivity	0
LEAST	SLIGHT		MODERATE	HIGH	EXTREME													
0	1		2	3	4													
Health	2																	
Fire	0																	
Reactivity	0																	
Chemical Synonyms	Tin Tetrachloride, Pentahydrate																	
Formula	SnCl <sub>4</sub> •5H <sub>2</sub> O																	
Unit Size	up to 500 grams																	
C.A.S. No.	10026-06-9																	

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Stannic Chloride, Hydrated Lumps	100%	See Section V.

**DANGER! CORROSIVE! HARMFUL IF SWALLOWED.**

**CAUSES BURNS TO SKIN AND EYES.**

## SECTION III PHYSICAL DATA

Melting Point (°F)	53°-56°C (127°-132°F)	Specific Gravity (H <sub>2</sub> O = 1)	2.04
Boiling Point (°F)	114°C (237°F)	Percent Volatile by Volume (%)	Non-volatile.
Vapor Pressure (mm Hg)	Negligible as solid.	Evaporation Rate ( =1)	N/A
Vapor Density (Air=1)	Data not listed.		
Solubility in Water	Soluble in water with evolution of heat.		
Appearance & Odor	White or slightly yellow crystals or fused lumps; slightly Hydrochloric acid odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable.	Flammable Limits in Air % by Volume	N/A	Lower	Upper
Extinguisher Media	Do not use water. Use dry chemical.				

SPECIAL FIREFIGHTING PROCEDURES	In the event of a fire, wear full protective clothing and NIOSH/MSHA-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.
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(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 154)

UNUSUAL FIRE AND EXPLOSION HAZARDS	<b>FIRE:</b> Not considered to be a fire hazard. <b>EXPLOSION:</b> Not considered to be an explosion hazard. Emits toxic fumes of Hydrogen chloride vapors when heated to decomposition.
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D.O.T. STANNIC CHLORIDE, PENTAHYDRATE, 8, UN 2440, PG III

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