



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. ZZ 71  
Effective Date June 3, 1999

## SECTION V HEALTH HAZARD DATA

ZZ 71

### Threshold Limited Value

None established for this solution by ACGIH 1992-93.  
Zinc chloride fume: TWA: 1 mg/m<sup>3</sup>; STEL: 2 mg/m<sup>3</sup>.

### Effects of Overexposure

May be harmful by ingestion. May cause irritation. To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated. Specific data not available. Exercise appropriate procedures to minimize potential hazards.

### Emergency and First Aid Procedures

**EYES:** Immediately flush with water for 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention. **SKIN:** Immediately flush with plenty of water. If irritation occurs and persists, obtain medical attention. **INHALATION AS MIST:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. **INGESTION:** If conscious, give water or milk to drink. Get immediate medical attention. Never give anything by mouth to an unconscious person.

## SECTION VI REACTIVITY DATA

Stability	Unstable	Conditions to Avoid	Excessive temperature as to cause evaporation.
	Stable	X	

**Incompatibility (Materials to Avoid)** Potassium, cyanides, sulfides. Reacts exothermically with alkaline materials. It can be corrosive to metals, especially when hot.

**Hazardous Decomposition Products** Thermal decomposition or burning may produce chlorine gas, zinc oxide, hydrogen chloride.

Hazardous Polymerization		Conditions to Avoid
May Occur	Will Not Occur	Not applicable.
	X	

## SECTION VII SPILL OR LEAK PROCEDURES

**Steps to be taken in case material is released or spilled** Wear self-contained breathing apparatus and full protective clothing. Absorb spill with an inert dry material and place in an appropriate container for disposal. Flush spill area with soap and 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 an approved chemical landfill or contract with a licensed waste disposal service.

## SECTION VIII SPECIAL PROTECTION INFORMATION

<b>Respiration Protection (Specify Type)</b>		None needed in normal laboratory handling. If misty conditions prevail, work in ventilation hood or wear a NIOSH/MSHA-approved dust mask or respirator.			
<b>Ventilation</b>	Local Exhaust	Recommended.	Special	No.	
	Mechanical (General)	Recommended.	Other	No.	
<b>Protective Gloves</b>		Rubber.		<b>Eye Protection</b>	Chemical safety glasses.
<b>Other Protective Equipment</b>	Goggles, smock, apron, eye wash station, proper gloves, ventilation hood.				

## SECTION IX SPECIAL PRECAUTIONS

**Precautions to be Taken in Handling & Storing** Store in a cool place. 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.

Do not get in eyes, on skin or clothing.  
Remove and wash contaminated clothing.

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

Revision	No. 3	Date	6/3/99	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

<b>Product</b>	ZINC CHLORIDE, 0.5 MOLAR AQ. SOLUTION	 CHEMTREC 800-424-9300 Day 716-226-6177 NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4 HMIS * 0 1 2 3 4
<b>Chemical Synonyms</b>	Zinc Chloride, 0.5 Molar Aqueous Solution	
<b>Formula</b>	Mixture.	
<b>Unit Size</b>	up to 3.785 Lt.	
<b>C.A.S. No.</b>	Mixture.	

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Zinc Chloride: (CAS No. 7646-85-7)	6.8%	See Section V.
Water: (CAS No. 7732-18-5)	93.2%	
<b>WARNING! MAY BE HARMFUL IF SWALLOWED.</b>		
<b>MAY CAUSE IRRITATION.</b>		

## SECTION III PHYSICAL DATA

Melting Point (°F)	Below 0°C (32°F)	Specific Gravity (H <sub>2</sub> O = 1)	Approx. 1.1
Boiling Point (°F)	Approx. 100°C (212°F)	Percent Volatile by Volume (%)	93.2%
Vapor Pressure (mm Hg)	14 (Water)	Evaporation Rate (≈1)	> 1
Vapor Density (Air=1)	0.7 (Water)		
Solubility in Water	Complete.		
Appearance & Odor	Clear, colorless liquid; no odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

<b>Flash Point (Method Used)</b>	Non-flammable.	<b>Flammable Limits in Air % by Volume</b>	N/A	Lower	Upper
<b>Extinguisher Media</b>	Use any media suitable for extinguishing supporting fire.				

### SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective clothing. Use water to keep fire exposed containers cool.

### UNUSUAL FIRE AND EXPLOSION HAZARDS

In fire conditions, water may evaporate from this solution, which may cause hazardous decomposition products to be produced as dust or fume.

D.O.T. Non Regulated.

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