



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. ZZ 35  
Effective Date April 9, 1998

## SECTION V HEALTH HAZARD DATA

ZZ 35

### Threshold Limited Value

None established. (ACGIH 1992-93).

### Effects of Overexposure

**INHALATION:** Dust may cause upper respiratory tract irritation. When heated above 400°C, inhalation of the fumes may lead to metal fume fever. Mild to severe symptoms of chills and fever, profuse perspiration, weakness, nausea and coughing can occur. **EYES:** May cause eye irritation. **SKIN:** Prolonged or repeated skin contact may cause skin irritation.

### Emergency and First Aid Procedures

**INHALATION AS FUMES:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. **EYES:** Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. If irritation develops or persists, get medical attention. **SKIN:** Thoroughly wash exposed area with soap and water.

## SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Excessive temperature and heat. Air and moisture.
	Stable	X		

Incompatibility (Materials to Avoid)	Strong oxidizers, acids, alkalis.
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Hazardous Decomposition Products	Oxides of zinc may be present. Zinc fumes.
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Hazardous Polymerization		Conditions to Avoid	Not applicable.
May Occur	Will Not Occur		
	X		

## SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled	Recover for use if not contaminated. Sweep up and place in suitable container disposal.
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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.	
	Dispose of in an approved chemical landfill or contract with a licensed waste disposal service.	

## SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)		None needed in normal laboratory handling.			
Ventilation	Local Exhaust	Not needed.	Special	No.	
	Mechanical (General)	Recommended.	Other	No.	
Protective Gloves		Suitable to protect against skin abrasions.	Eye Protection		Chemical safety glasses.
Other Protective Equipment	Lab coat, eye wash station.				

## SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Store in a cool, dry, ventilated place. Separate from acids, halogenated hydrocarbons and strong alkali hydroxides. Protect from moisture. Wash thoroughly after handling.
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Other Precautions	Read label on container before using. Do not wear contact lenses when working with chemicals.
	Remove and wash contaminated clothing.

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

Revision No. 4	Date 4/9/98	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	ZINC METAL, Sticks	<div><div><div>CHEMTREC 800-424-9300 Day 716-226-6177</div><div>NFPA HAZARD RATING</div><div><div>LEASTSLIGHTMODERATE</div><div>012</div></div><div>HMIS*</div><div><div>HIGHEXTREME</div><div>34</div></div></div></div>
Chemical Synonyms	Zinc Metal, Sticks, Pieces, Sheet	
Formula	Zn	
Unit Size	up to 2.5 Kg.	
C.A.S. No.	7440-66-6	

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Zinc Metal, Sicks, Pieces, Sheet	100%	See Section V.
CAUTION! USE CARE IN HANDLING. SHARP EDGES.		
ABRASIVE TO SKIN. REACTS WITH ACIDS TO LIBERATE		
HYDROGEN GAS - A FLAMMABLE AND EXPLOSIVE GAS.		

## SECTION III PHYSICAL DATA

Melting Point (°F)	419°C (787°F)	Specific Gravity (H <sub>2</sub> O = 1)	7.14
Boiling Point (°F)	907°C (1665°F)	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	1 mm at 487°C	Evaporation Rate (≈1)	N/A
Vapor Density (Air=1)	2.26		
Solubility in Water	Insoluble.		
Appearance & Odor	Silvery metal sticks, pieces, sheet; no odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable.	Flammable Limits in Air % by Volume	Unknown	Lower	Upper
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Extinguisher Media	Smoother with dry sand, earth or soda ash, dry powder (ABC).				

### SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus. When heated, the fumes are highly toxic, causing "metal fume fever".

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Dust forms explosive mixtures with air. Bulk dust in damp state may heat spontaneously and ignite on exposure to air. Contact with acids and alkali hydroxide (sodium hydroxide, potassium hydroxide, calcium hydroxide. etc.) results in evolution of hydrogen.

D.O.T. NON-REGULATED.

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