



**ALDON
CORPORATION**

MATERIAL SAFETY DATA SHEET

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MSDS No. ZZ 30
Effective Date November 19, 1998

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	ZINC METAL, POWDER	<div><div><div>1</div><div>0</div><div>1</div><div>0</div></div><div>CHEMTREC 800-424-9300 Day 716-226-6177</div><div>NFPA HAZARD RATING LEAST SLIGHT MODERATE 0 1 2</div><div>HMIS * HIGH EXTREME 3 4</div></div>
Chemical Synonyms	Zinc Metal, Powder	
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, Powder	99%	None established.

WARNING! 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 ₂ O = 1)	7.12
Boiling Point (°F)	907°C (1665°F)	Percent Volatile by Volume (%)	Not applicable.
Vapor Pressure (mm Hg)	Not applicable.	Evaporation Rate (=1)	Not applicable.
Vapor Density (Air=1)	Not applicable.		
Solubility in Water	Insoluble.		
Appearance & Odor	Light grey powder; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable (NA).	Flammable Limits in Air % by Volume	Unknown	Lower	Upper
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 "fume fever".

UNUSUAL FIRE AND EXPLOSION HAZARDS

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

SECTION V HEALTH HAZARD DATA

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Threshold Limited Value

None established (ACGIH 1992-93).
Zinc oxide fume TWA: 5 mg/m³ STEL: 10 mg/m³

Effects of Overexposure

INHALATION: 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, vomiting 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: Remove from exposure, treat symptomatically and get medical attention, if symptoms persist. **EYES:** DO NOT rub 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:** Flush thoroughly with water, then wash with mild soap and water.

SECTION VI REACTIVITY DATA

Stability	Unstable	Conditions to Avoid	Excessive temperature and heat. Hydrogen may evolve when in contact with water or damp air.
	Stable	X	

Incompatibility (Materials to Avoid)	Strong oxidizers, acids, alkalies.
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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	Avoid creating dusty conditions. Sweep or gather spill for reuse or place in a suitable container for 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.
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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.			
Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	Adequate to maintain below exposure limit.
Protective Gloves	Suitable to protect against skin irritation.		Eye Protection	Chemical safety glasses.
Other Protective Equipment	Smock, apron, eye wash station, proper gloves, goggles, ventilation hood.			

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. 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.
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Avoid breathing dust. Use with adequate ventilation.
Remove and wash contaminated clothing.

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

Revision	No. 1	Date	11/19/98	Approved	Michael Raszeja	Chemical Safety Coordinator	MR
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