



**ALDON CORPORATION**

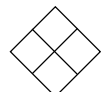
# MATERIAL SAFETY DATA SHEET

221 Rochester Street  
Avon, New York 14414-9409  
(585) 226-6177

MSDS No.: ZZ0030  
Effective Date: January 1, 2007

## SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	Zinc Metal
Chemical Synonyms	N/A
Formula	Zn
Unit Size	up to 2.5 Kg.
C.A.S. No.	7440-66-6



**CHEMTREC**  
800-424-9300  
Day 585-226-6177

Health	0
Fire	1
Reactivity	2

**NFPA**

HAZARD RATING				
MINIMAL	SLIGHT	MODERATE	SERIOUS	SEVERE
0	1	2	3	4

**HMIS\***

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Zinc Metal	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 <sub>2</sub> 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 metallic powder; no odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable.	Flammable Limits in Air % by Volume	Unknown	Lower	Upper
Extinguisher Media	Smother with dry sand, earth or soda ash, dry powder. DO NOT USE WATER.				

### 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

Bulk dust in contact with water or damp air evolves hydrogen. The heat produced during this reaction could ignite the hydrogen. An explosive condition may exist if this happens in confined spaces. Dust may form explosive mixture in air. Zinc oxide fume may result from combustion of Zinc dust.

**D.O.T. NON-REGULATED.**

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

## SECTION V HEALTH HAZARD DATA ZZ0030

**Threshold Limited Value** None established (ACGIH 2001).

**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. Target organs: None known.

**Emergency and First Aid Procedures** **INGESTION:** Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person. **EYES:** Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. **SKIN:** Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

## 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, alkalis, water.

**Hazardous Decomposition Products** Oxides of zinc may be present. Zinc fumes.

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

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

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

Revision No. 6	Date 01/01/07	Approved James A. Bertsch	Chemical Safety Coordinator JAB
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