


# MATERIAL SAFETY DATA SHEET

ZZ 15

Zinc as fume: PEL 5 mg/m<sup>3</sup>; TLV 5 mg/m<sup>3</sup>; STEL 10 mg/m<sup>3</sup>.

MSDS No.  
Effective Date

**Product**  
**Chemical Synonyms**  
**Formula**  
**Unit Size**  
**C.A.S. No.**

	<b>CHEMTREC</b> <b>800-424-9300</b> Day 716-226-6177	<table border="1"> <tr> <td>Health</td> <td>0</td> </tr> <tr> <td></td> <td>1</td> </tr> <tr> <td>Reactivity</td> <td>2</td> </tr> </table>	Health	0		1	Reactivity	2
	Health	0						
	1							
Reactivity	2							
<b>NFPA HAZARD RATING</b> LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4	<b>HMIS *</b> 3 4							

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units

Melting Point (°F)	Specific Gravity (H <sub>2</sub> O = 1)
Boiling Point (°F)	Percent Volatile by Volume (%)
Vapor Pressure (mm Hg)	
Vapor Density (Air=1)	
Solubility in Water	
Appearance & Odor	

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Flammable Limits in Air % by Volume	Lower	Upper

Extinguisher Media

### 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

Stability	Unstable	X	Conditions to Avoid
	Stable		

**Incompatibility (Materials to Avoid)**

**Hazardous Decomposition Products**

Hazardous Polymerization	Conditions to Avoid	
	May Occur	Will Not Occur

**Steps to be taken in case material is released or spilled**

**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.

None needed in normal laboratory handling. If dust conditions prevail, wear

Ventilation	Local Exhaust	Not needed.	Special	No.
		Recommended.		No.

**Protective Gloves** **Eye Protection** Chemical safety glasses.

**Other Protective Equipment** Lab coat, goggles, eye wash station, fire extinguisher.

**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.

Keep container tightly closed when not in use. 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. 7 5/21/99 Michael Raszeja MR

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