


# MATERIAL SAFETY DATA SHEET

ZZ 15

MSDS No. ZZ 15  
Effective Date May 21, 1999

**Product** ZINC METAL  
**Chemical Synonyms** Zinc metal, mossy, granular, shot.  
**Formula** Zn  
**Unit Size** up to 2.5 Kg.  
**C.A.S. No.** 7440-66-6

	<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
Zinc Metal, Mossy, Granular, Shot	100%	See Section V.
<b>CAUTION! USE CARE IN HANDLING. ABRASIVE TO SKIN.</b>		
<b>REACTS WITH ACIDS TO LIBERATE HYDROGEN GAS -</b>		

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
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**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

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

**INHALATION:** Remove from exposure, treat symptomatically and get medical attention, if symptoms persist. **EYES:** Using great care, flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. **SKIN:** Flush thoroughly with water, then wash with mild soap and water.

<b>Stability</b>	Unstable	Conditions to Avoid
	Stable	

**Incompatibility (Materials to Avoid)**

**Hazardous Decomposition Products**

<b>Hazardous Polymerization</b>	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.

<b>Ventilation</b>	None needed in normal laboratory handling. If dust conditions prevail, wear a NIOSH/MSHA-approved dust mask or work in adequate ventilation hood.		
	Local Exhaust	Not needed.	Special
		Recommended.	No.

**Protective Gloves** Suitable to protect against skin abrasions. **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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