

# MATERIAL SAFETY DATA SHEET

## SECTION I - NAME AND PRODUCT

**NAME:** Eastern Alloys, Inc. **CONTACT:** John Malmgreen  
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Henry Henning Drive  
Maybrook, NY 12543 **TELEPHONE # FOR INFO:** Same  
**PRODUCT NAME:** Zinc Casting Alloys **DATE PREPARED:** 08/23/2002  
ACCUZINC

## SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION\*

<u>CHEMICAL NAME</u>	<u>CAS#</u>	<u>WEIGHT PERCENT RANGE</u>	<u>OSHA EXPOSURE LIMIT(TWA)</u>	<u>ACGIH TLV</u>
Zinc	7440666	90 - 92	10 (Total) 5 (Respirable)	10(TWA)
Aluminum	7429905	2 - 4	15 (Total) 5 (Respirable)	10(TWA)
Copper	7440508	4 - 10	1 (Dust)	1(TWA)

\*NOTE: When heated excessively, oxide fumes "may" be produced.  
The following applies to oxide fumes:

Zinc Oxide	1314132	NA	5	5(TWA)
Aluminum Oxide	1444281	NA	5	10(TWA)
Copper	7440508	NA	0.1	0.2(TWA)

## SECTION III - PHYSICAL AND CHEMICAL CHARACTERISTICS

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Appearance and Odor: Bluish - white metal

Boiling Point: 1,665°F                      Specific Gravity: 5.0 - 6.7  
Melting Point: Range 707-903°F %        Volatile By Volume: N/A  
Vapor Pressure: N/A                      Vapor Density: N/A  
Solubility in Water: Negligible        Evaporation Rate: N/A  
Solubility in Alcohol: Negligible

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### SECTION IV - FIRE AND EXPLOSION HAZARD DATA

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Flash Point: N/A    Flammable Limits: N/A    Lel: N/A    Uel: N/A

Extinguishing Media	Do not use water on burning metal; use dry powder extinguisher
Special Fire Fighting Procedures	Wear self-contained breathing apparatus.
Unusual Fire and Explosion Hazards	When heated excessively (beyond melting point - >1,500°F) metal vapor burns in the air with a bright greenish-yellow flame to produce zinc oxide fume.

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### SECTION V - REACTIVITY DATA

Stability: Hazardous Polymerization:  
Unstable: Stable: X Will Occur: Will Not Occur: X

Incompatibility (Materials to avoid):  
Strong acids, halogen gases, oxidizers

Decomposition Products: N/A Conditions to be avoided: N/A

### SECTION VI - HEALTH, FIRST AID AND MEDICAL TREATMENT

Routes of Entry: Routes of entry possible during subsequent operations - ie. melting, welding, machining.  
Inhalation: X Ingestion: X

Health Hazards (acute and chronic):  
Inhalation of zinc oxide fume may cause "metal fume fever".  
Ingestion may irritate lining of stomach and intestines.

Signs and Symptoms of Exposure:

- Symptoms of "metal fume fever": fever, chill, metallic taste, chest tightness.
- Symptoms of Ingestion: fever, stomach cramps, and diarrhea.

Emergency First Aid Procedures:

Terminate exposure and remove patient to fresh air. Refer patient to a physician. Avoid inhalation of dusts generated in any secondary operations.

### SECTION VI - HEALTH, FIRST AID AND MEDICAL TREATMENT (cont'd.)

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Other Potential Health Risks:

Carcinogenicity: No reported chronic toxicity.

NTP: No IARC Monographs: Yes OSHA Regulated: Yes

Medical Conditions Generally Aggravated by Exposure:

Emphysema, Asthma

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### SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

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Steps To Be Taken In Case Material Is Released Or Spilled:

If large quantities of dust are generated, use industrial vacuum to clean up. Molten metal should be allowed to solidify prior to clean up.

Waste Disposal Method:

Reclaim using standard industrial practices (remelt).  
Dispose of dusts using approved methods consistent with applicable local, state and federal regulations.

Precautions to Be Taken In Handling and Storing:

Keep dry; if alloy becomes wet, allow to dry before melting.

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### SECTION VIII - CONTROL MEASURES

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Respiratory Protection (specify type)

- \* NIOSH/OSHA approved respirator for nuisance dust when fume levels exceed TLV.
- \* VENTILATION: Special: N/A Mechanical (general): N/A  
Other: N/A

Local Exhaust: Use as required to prevent fume from exceeding TLV.

- \* PROTECTIVE GLOVES: Recommended when significant skin contact can occur.

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- \* EYE PROTECTION: Consistent with industrial safety practices for grinding or machining nonferrous metals or handling molten metal.
  - \* OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Consistent with material handled (heat resistant when working with molten metal).
  - \* WORK/HYGIENIC PRACTICES: Wash after handling alloys.

### ADDITIONAL INFORMATION

#### EPCRA REGULATIONS

This material contains substances that are reportable under the emergency planning and community right-to-know act. Refer to 40CFR370 for guidance.