

MATERIAL SAFETY DATA SHEET

SECTION I - NAME AND PRODUCT

NAME: Eastern Alloys, Inc. CONTACT: John Malmgreen
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PRODUCT NAME: Zinc Casting Alloys DATE PREPARED: 08/23/2002
ACCUZINC Date Reviewed: 12/19/08

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION*

Table with 5 columns: CHEMICAL NAME, CAS#, WEIGHT PERCENT RANGE, OSHA EXPOSURE LIMIT (TWA), and ACGIH TLV. Rows include Zinc, Aluminum, and Copper.

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

Table with 5 columns: CHEMICAL NAME, CAS#, WEIGHT PERCENT RANGE, OSHA EXPOSURE LIMIT (TWA), and ACGIH TLV. Rows include Zinc Oxide, Aluminum Oxide, and Copper.

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

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

Table with 2 columns: Hazard Category and Description. Rows include Extinguishing Media, Special Fire Fighting Procedures, and Unusual Fire and Explosion Hazards.

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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

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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.