

LTS Research Laboratories, Inc. Safety Data Sheet Zinc Magnesium Alloy

1. Product and Company Identification

Trade Name: Zinc Magnesium Alloy

Chemical Formula: ZnMg

Recommended Use: Scientific research and development

Manufacturer/Supplier: LTS Research Laboratories, Inc.

Street: 37 Ramland Road
City: Orangeburg
State: New York
Zip Code: 10962
Country: USA

Tel #: 855-587-2436 / 855-lts-chem

24-Hour Emergency Contact: 800-424-9300 (US & Canada)

+1-703-527-3887 (International)

2. Hazards Identification

Signal Word: Danger



Hazard Statements: H228: Flammable solid

H250: Catches fire spontaneously if exposed to air

H251: Self-heating; may catch fire

H260: In contact with water releases flammable gases which may ignite

spontaneously

Precautionary Statements: P210: Keep away from heat/sparks/open flames/hot surfaces – No

smoking.

P222: Do not allow contact with air.

P231+P232: Handle under inert gas. Protect from moisture.

P370+P378: In case of fire: Use CO₂, sand, extinguishing powder for

extinction.

P422: Store contents under inert gas.

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

3. Composition		
Chemical Family:	Alloy	
Additional Names:	None	
Zinc (Zn):		
Percentage:	0-100 wt%	
CAS #:	7440-66-6	
EC #:	231-175-3	
Magnesium (Mg):		
Percentage:	0-100 wt%	
CAS #:	7439-95-4	
EC #:	231-104-6	
	4. First Aid Procedures	
General Treatment:	Seek medical attention if symptoms persist.	
Special Treatment:	None	
Important Symptoms:	None	
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult.	
_	Seek medical attention.	
Ingestion:	Give one to two glasses of water. Never induce vomiting or give	
Skin:	anything by mouth to an unconscious person. Seek medical attention. Wash affected area with mild soap and water. Remove any	
	contaminated clothing. Seek medical attention.	
Eyes:	Flush eyes with water, blinking often for several minutes. Remove	
	contact lenses if present and easy to do. Continue rinsing. Seek medical	
	attention. horatories, Inc.	
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	5. Firefighting Measures	
Flammability:	Non-flammable, except as powder	
Extinguishing Media:	Do not use water for metal fires. Use CO ₂ , sand, extinguishing powder.	
Spec. Fire Fighting Procedure:	Use full-face, self-contained breathing apparatus with full protective	
-r	clothing to prevent contact with skin and eyes. See section 10 for	
	decomposition products.	
	6. Accidental Release Measures	
If Material Is Released/Spilled:	Wear appropriate respiratory and protective equipment specified in	
	special protection information. Isolate spill area and provide	
	ventilation. Vacuum up spill using a high efficiency particulate	
	absolute (HEPA) air filter and place in a closed container for disposal. Take care not to raise dust.	
Environmental Precautions:	Isolate runoff to prevent environmental pollution.	
Environmental Fredutions.	isome ranon to prevent environmental political.	

7. Handling and Storage

Handling Conditions: Wash thoroughly after handling.

Storage Conditions: Store in a cool dry place in a tightly sealed container. Store under dry

inert gas. Keep away from sources of ignition. Store apart from

materials and conditions listed in section 10.

Do not use tobacco or food in work area. Wash thoroughly before Work/Hygienic Maintenance:

eating and smoking. Do not blow dust off clothing or skin with

compressed air.

Ventilation: Provide sufficient ventilation to maintain concentration at or below

threshold limit.

8. Exposure Controls and Personal Protection

Permissible Exposure Limits: N/A Threshold Limit Value: N/A

Special Equipment: None

Respiratory Protection: **Dust Respirator** Protective Gloves: Rubber gloves

Eye Protection: Safety glasses or goggles

Body Protection: Protective work clothing. Wear close-toed shoes and long

sleeves/pants.

9. Physical and Chemical Characteristics

Color N/A

Form: Powder, Granules, Pellets, Sputtering target, Custom parts

Odor: N/A

Research Water Solubility: N/A ratorias, Inc. **Boiling Point:** N/A

Melting Point: N/A Flash Point: N/A

Autoignition Temperature: N/A Density: N/A Molecular weight: N/A

10. Reactivity

Stability: Stable under recommended storage conditions Reacts With: Acids, Bases, Oxidizing agents, Water, Air

Incompatible Conditions: Air, Moisture Hazardous Decomposition Products: Metal oxide fumes

11. Toxicological Information

Potential Health Effects:

Eves: May cause irritation Skin: May cause irritation May cause irritation Ingestion: Inhalation: May cause irritation

Chronic: N/A

Signs & Symptoms: N/A Aggravated Medical Conditions: N/A Median Lethal Dose: N/A Carcinogen: N/A

12. Ecological Information

Aquatic Toxicity: High
Persistent Bioaccumulation Toxicity: No
Very Persistent, Very Bioaccumulative: No

Notes:

Very toxic for aquatic organism.

May cause long lasting harmful effect on aquatic life.

Do not allow material to be released to the environment without proper

governmental permits.

Do not allow product to reach any water sources.

Danger to drinking water if even extremely small quantities leak into

the ground.

Also poisonous for fish and plankton in water bodies.

Avoid transfer into the environment.

13. Disposal Considerations

Dispose of in accordance with local, state, national, and international regulations.

14. Transportation Data

Hazardous: Hazardous as powder only.



Hazard Class: 4.3 Dangerous when wet materials Secondary Hazard Class: 4.2 Spontaneously combustible solids

Packing Group: II UN Number: UN1418

Proper Shipping Name: Magnesium, powder or Magnesium alloys, powder

	15. Regulatory Information	
Sec 302 Extremely Hazardous:	N/A	
Sec 304 Reportable Quantities:	N/A	
Sec 313 Toxic Chemicals:	Yes	

16. Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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