

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

1. Product and Company Identification

Trade Name: Aluminum magnesium alloy

Chemical Formula: Al-Mg

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 in contact with air.

H251 Self-heating: may catch fire

H261 In contact with water, releases flammable gas

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

smoking

P261 Keep away from heat/sparks/flame. No smoking.

P280 Wear protection gloves/protective clothing/eye protection/ face

Bulk

protection

P222 Do not allow contact with air

P231+P232 Handle under inert gas. Protect from moisture. P370+P378 In case of fire: use special powder for metal fires.

P422 Store contents under inert gas.

HMIS Health Ratings (0-4): Powder Pieces

 Health:
 1
 1
 0

 Flammability:
 4
 2
 1

 Physical:
 2
 2
 1

3. Composition	
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Chemical Family: Additional Names:	Metal alloy Magnalium
Additional Names.	Magnanum
Aluminum (Al):	
Percentage:	0-100 wt.%
CAS #:	7429-90-5
EC #:	231-072-3
Magnesium (Mg):	0.100
Percentage: CAS #:	0-100 wt.%
EC#:	7439-95-4 231-104-6
	231 101 0
	4. First Aid Procedures
General Treatment:	Seek medical attention if symptoms persist.
Special Treatment:	None
Important Symptoms:	None
Inhalation:	Remove victim to fresh air. If unconscious, place patient stably in side
illiaration.	position for transportation.
Ingestion:	Seek medical attention.
Skin:	Wash affected area with mild soap and water. Remove any
	contaminated clothing.
Eyes:	Flush eyes with water, blinking often for several minutes. Remove
	contact lenses if present and easy to do. Continue rinsing
	5. Fire and Explosion Hazards Data
Flammability:	Spontaneously flammable as powder. Flammable as small or thin
•	pieces. Contact with water may release flammable gases.
Flash Point:	N/A
Autoignition Temperature:	N/A
Timong in temperature.	- v
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
	clothing to prevent contact with skin and eyes.
	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.
	7. Handling and Storage
Handling Conditions:	Wash thoroughly after handling.
Storage Conditions:	Store in a cool dry place in a tightly sealed container.
Work/Hygienic Maintenance:	Do not use tobacco or food in work area. Wash thoroughly before
	eating and smoking. Do not blow dust off clothing or skin with
Ventilation:	compressed air.
v Chillation.	Provide sufficient ventilation to maintain concentration at or below threshold limit.
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8. Exposure Controls and Personal Protection

Permissible Exposure Limits: 15 mg/m³ as Al, long-term value, total dust or respirable fraction

Threshold Limit Value: 1 mg/m³ as Al, long-term value, respirable fraction

Special Equipment: None

Respiratory Protection: Use a respirator with type P100 (USA) or P3 (EN143) cartridges as a

backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government

standards.

Protective Gloves: Nitrile rubber, NBR 0.11mm thick.

Penetration time of glove material: 480 minutes

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 Metallic grey

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

Odor: Odorless

Water Solubility: Insoluble, contact with water may release flammable gas

Boiling Point: N/A

Melting Point: 437-660.4 °C Density: N/A

Density: N/A Molecular weight: N/A

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts with: Oxidizing agents, Air, Acids, Bases, Halocarbons, water

Incompatible Conditions: Air, Water/Moisture, Nitrogen
Hazardous Decomposition Products: Metal oxide fume, Magnesium oxide

11. Toxicological Information

Potential Health Effects:

Eyes:May cause irritationSkin:May cause irritationIngestion:May cause irritationInhalation: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

Ecological data is not available.

13. Disposal Considerations

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

14. Transportation Data

Hazardous: As Powder:



Hazard Class: 4.3 Substances which in contact with water release flammable gas

Secondary Class: 4.2 Spontaneously combustible solids

Packing Group: II UN Number: UN1418

Proper Shipping Name: Magnesium alloy powder (Aluminum magnesium)

Hazardous: As pieces with more than 50 wt% Mg:



Hazard Class: 4.3
Packing Group: III
UN Number: UN1869

Proper Shipping Name: Magnesium alloys with more than 50 percent magnesium

(Aluminum magnesium)

15. Regulatory Information

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Sec 302 Extremely Hazardous: No

Sec 304 Reportable Quantities: N/A

Sec 313 Toxic Chemicals: Yes (Aluminum)

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.

Document Last Revised: 07/19/2016