

LTS Research Laboratories, Inc. Safety Data Sheet Iron Magnesium

1. Product and Company Identification

Trade Name: Iron magnesium

Chemical Formula: Fe/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

H319 Causes serious eye irritation H335: May cause respiratory irritation H251: Self-heating; may catch fire

H261: In contact with water releases flammable gas

Precautionary Statements: P261 Avoid breathing dust/fume/vapor

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

smoking

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

protection

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do –

continue rinsing P405: Store locked up

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4): Powder Bulk Health: 1 0 Flammability: 4 0

Flammability: 4 0 Physical: 2 0

3. Composition	
Chemical Family: Additional Names:	Alloy None
Iron (Fe):	
Percentage:	0-100 wt%
CAS #:	7439-89-6
EC#:	231-096-4
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.
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. Firefighting Measures
Flammability:	Flammable as powder ones, Inc.
Extinguishing Media: Spec. Fire Fighting Procedure:	Do not use water for metal fires – use CO ₂ , sand, extinguishing powder Use full-face, self-contained breathing apparatus with full protective 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.
	7. Handling and Storage
Handling Conditions: Storage Conditions:	Handle under dry protective gas. Wash thoroughly after handling. Store in a cool dry place in a tightly sealed container. Store under dry
Work/Hygienic Maintenance:	inert gas. Store apart from materials and conditions listed in section 10. 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. 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: 5 mg/m³ as Fe, long-term value

Special Equipment: None

Respiratory Protection:
Protective Gloves:

Dust Respirator
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 Silver/grey

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

Odor: Odorless
Water Solubility: Insoluble
Boiling Point: N/A
Melting Point: 650-1538 °C

Flash Point: N/A
Autoignition Temperature: N/A
Density: N/A

Molecular weight: 80.15 g/mol

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With:

Acids, Nitrogen, Oxidizing agents
Incompatible Conditions:

Air, Water/moisture

Hazardous Decomposition Products: Metal oxide fume, Iron oxides

11. Toxicological Information

Potential Health Effects:

Eyes: Causes serious eye damage
Skin: May cause irritation
Ingestion: May cause irritation
Inhalation: May cause irritation

Chronic: The Registry of Toxic Effects of Chemical Substances (RTECS)

contains multiple dose toxicity data for this substance.

Signs & Symptoms: N/A
Aggravated Medical Conditions: N/A

Median Lethal Dose: N/A

Carcinogen: The Registry of Toxic Effects of Chemical Substances (RTECS)

contains tumorigenic and/or carcinogenic and/or neoplastic data for this

substance.

12. Ecological Information

Aquatic Toxicity: Low Persistent Bioaccumulation Toxicity: No Very Persistent, Very Bioaccumulative: No Notes: N/A

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 Substances which, in contact with water, emit flammable gas

Secondary Class: 4.2 Packing Group: II

UN Number: UN3089

Proper Shipping Name: Metal powders, flammable, n.o.s. (Iron Magnesium)

15. Regulatory Information

Sec 302 Extremely Hazardous: No Sec 304 Reportable Quantities: N/A Sec 313 Toxic Chemicals: No

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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