



LTS Research Laboratories, Inc.  
Safety Data Sheet  
Magnesium Chloride

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1. Product and Company Identification

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Trade Name: Magnesium Chloride  
Chemical Formula: MgCl<sub>2</sub>  
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 / 845-lts-chem

24-Hour Emergency Contact: 800-424-9300 (US & Canada)  
+1-703-527-3887 (International)

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2. Hazards Identification

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Signal Word: None

Hazard Statements: None

Precautionary Statements: None

HMIS Health Ratings (0-4):  
Health: 1  
Flammability: 0  
Physical: 1



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3. Composition

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Chemical Family: Inorganic Compound  
Additional Names: N/A

Magnesium Chloride (MgCl<sub>2</sub>):  
Percentage: 100 wt%  
CAS #: 7786-30-3  
EC #: 232-094-6

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4. First Aid Procedures

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General Treatment: Seek medical attention if symptoms persist.  
Special Treatment: None  
Important Symptoms: None

Inhalation: Remove victim to fresh air. Get medical attention if symptoms occur.  
Ingestion: Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.

Skin: Wash off immediately with plenty of water for at least 15 minutes. Remove any contaminated clothing. Get medical attention immediately if symptoms occur.

Eyes: Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Get medical attention.

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## 5. Firefighting Measures

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Flammability:	Non-flammable, except as powder
Extinguishing Media:	No special restrictions – use suitable extinguishing agent for surrounding material and type of fire.
Spec. Fire Fighting Procedure:	Use full-face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. Reacts violently with water. Thermal decomposition can lead to release of irritating gases and vapors. See section 10 for decomposition products.

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## 6. Accidental Release Measures

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If Material Is Released/Spilled:	Wear appropriate respiratory and protective equipment specified in special protection information. Isolate spill area and provide adequate ventilation. Avoid dust formation.
Environmental Precautions:	Should not be released into the environment.

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## 7. Handling and Storage

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Handling Conditions:	Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid ingestion and inhalation. Avoid contact with skin, eyes or clothing. Avoid dust formation. Wash thoroughly after handling.
Storage Conditions:	Store in a cool, dry and well-ventilated place in a tightly sealed container. Store under an inner atmosphere, apart from materials and conditions listed in section 10.
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 compressed air.
Ventilation:	Provide sufficient ventilation to maintain concentration at or below threshold limit.

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## 8. Exposure Controls and Personal Protection

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Permissible Exposure Limits:	N/A
Threshold Limit Value:	N/A
Special Equipment:	None
Respiratory Protection:	Dust Respirator Not required
Protective Gloves:	Rubber gloves Not required
Eye Protection:	Safety glasses or goggles
Body Protection:	Protective work clothing. Wear close-toed shoes and long sleeves/pants.

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## 9. Physical and Chemical Characteristics

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Color	White
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Odor:	Odorless
Water Solubility:	Soluble
Boiling Point:	1412 °C
Melting Point:	708 °C
Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	N/A
Molecular weight:	95.21 g/mol

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### 10. Reactivity

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Stability:	Hydroscopic. Stable under recommended storage conditions
Reacts With:	Strong oxidizing agents
Incompatible Conditions:	Excess heat. Avoid dust formation. Exposure to moist or water
Hazardous Decomposition Products:	Magnesium oxides, Hydrogen chloride gas

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### 11. Toxicological Information

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Potential Health Effects:	
Eyes:	May cause irritation
Skin:	May cause irritation
Ingestion:	May cause irritation
Inhalation:	May cause irritation
Chronic:	N/A
Signs & Symptoms:	N/A
Aggravated Medical Conditions:	N/A
Median Lethal Dose:	> 2800 mg/kg for rat by mouth
Carcinogen:	N/A

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### 12. Ecological Information

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

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### 13. Disposal Considerations

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

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### 14. Transportation Data

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Hazardous:	Not hazardous for transportation.
Hazard Class:	N/A
Packing Group:	N/A
UN Number:	N/A
Proper Shipping Name:	N/A

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### 15. Regulatory Information

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

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## 16. Other Information

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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:

01/03/2023

