

SAFETY DATA SHEET

Magnesium Chloride Hexahydrate

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1. PRODUCT AND COMPANY IDENTIFICATION:	
1.1 Name of the chemical substance:	Magnesium Chloride Hexahydrate
1.2 Commercial name:	46-47.5% Magnesium Chloride Hexahydrate, Technical grade
1.3 Company Identification:	Evergreen Chemical, Inc. 2808 Deering Bay Dr. Naperville IL 60564 U.S.A.
1.4 CHEMTREC (24-Hr Emergency):	U.S. Toll Free (800) 424-9300 International +1 703-527-3887
1.5 Non-Emergency Service:	(773) 780-5282
1.6 Company Fax Number:	(866) 439-0655
2. COMPOSITION, INFORMATION ON INGREDIENTS:	
2.1 Industrial Non-proprietary Name:	Magnesium Chloride
2.2 Chemical Formula:	MgCl ₂ · 6H ₂ O
2.3 CAS Number:	
Magnesium chloride	7791-18-6
Water	7732 -18-5
3. HAZARDS IDENTIFICATION:	
3.1 Hazards of product:	Contact may cause eye irritation.
3.2 OSHA Hazard Standard:	This product is NOT known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
3.3 Potential Health Effects:	
3.3.1 Eye Contact:	May cause irritation.
3.3.2 Skin Contact:	Non-irritating to the skin.
3.3.3 Routes of exposure:	Prolonged skin contact is unlikely to result in absorption of harmful amounts.
3.3.4 Inhalation:	May cause respiratory tract irritation.
3.3.5 Ingestion:	May cause stomach distress, nausea or vomiting.
4. FIRST AID MEASURES:	
4.1 Skin Contact:	Remove contaminated clothing and shoes. Wash affected area with soap or mild detergent.
4.2 Eye Contact:	Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical attention if irritation persists.
4.3 Inhalation:	Remove from exposure area to fresh air. Give artificial respiration ONLY if breathing has stopped. Obtain medical attention immediately.

4.4 Ingestion:	Do not attempt to give anything by mouth to an unconscious person. If victim is alert and not convulsing, rinse mouth out and give ½ to 1 glass of water to dilute material. Get medical attention.
4.5 Notes to Physician:	Due to irritant properties, swallowing may result in burns/ulceration of mouth, stomach and lower gastrointestinal tract with subsequent stricture. Aspiration of vomitus may cause lung injury. Suggest endotracheal/esophageal control if lavage is done. If burn is present, treat as any thermal burn, after decontamination. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.
5. FIRE FIGHTING MEASURES:	
5.1 Flash Point:	Not applicable
5.2 Extinguishing Media:	This material does not burn. If exposed to fire from another source, use suitable extinguishing agent for that fire.
5.3 Fire Fighting Procedures:	Move container(s) from fire area if you can do so without risk. Apply cooling water to sides of containers that are exposed to flames until well after the fire is out. Extinguish fire using agent suitable for type of surrounding fire and/or chemicals. Do not use water directly on material. Avoid breathing dusts/vapors. Keep upwind. Use self-contained breathing apparatus and protective clothing. Dike area to prevent runoff and contamination of water sources.
5.4 Explosion Hazard:	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available. Fire Fighting Media and Instructions: Not available.
5.5 Unusual Fire and Explosion Hazards:	Not applicable
5.6 Products of Combustion:	Non-combustible
6. ACCIDENTAL RELEASE MEASURES:	
6.1 Small Spill:	Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
6.2 Large Spill:	Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system
7. HANDLING AND STORAGE:	
7.1 General Handling:	Do not ingest. Do not breathe gas/fumes/ vapour/spray. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents.
7.2 Storage:	No specific storage is required. Use shelves or cabinets sturdy enough to bear the weight of the chemicals. Be sure that it is not necessary to strain to reach materials, and that shelves are not overloaded.
8. EXPOSURE CONTROLS / PERSONAL PROTECTION:	
8.1 Engineering Controls:	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.
8.2 Personal Protection:	Safety glasses. Lab coat.

8.3 Personal Protection in Case of a Large Spill:	Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
8.4 Exposure Limits:	Not available.
8.5 Respiratory Protection:	Atmospheric levels should be maintained below the exposure guideline. When respiratory protection is required for certain operations, use an approved air-purifying respirator. In dusty or misty atmospheres, use an approved particulate respirator.
9. PHYSICAL AND CHEMICAL PROPERTIES:	
9.1 Chemical Properties: MgCl ₂ : Sulfate (as SO ₄) Insoluble matter Ca ²⁺	46-47.5% ≤0.4% ≤0.1% ≤0.12%
9.2 Physical Properties: Appearance Bulk Density Odor Melting point Vapor density: N/A Vapor pressure: N/A Solubility:	White Flake or Pellet Approx. 1.56g/cm ³ (20°C) Odorless 118°C N/A N/A Soluble in water and alcohol
10. STABILITY AND REACTIVITY:	
10.1 Stability:	Stable under ordinary conditions of use and storage. Substance will pick up moisture from the air and go into solution if exposed in open containers.
10.2 Instability Temperature:	Not available.
10.3 Conditions of Instability:	Not available
10.4 Incompatibilities:	Reactive with oxidizing agents
10.5 Conditions to Avoid:	Incompatibles.
11. TOXICOLOGICAL INFORMATION:	
11.1 Routes of Entry:	Not available.
11.2 Toxicity to Animals:	cute oral toxicity (LD50): 15882 mg/kg (Rat.) (Calculated value for the mixture).
11.3 Chronic Effects on Humans:	Not available.
11.4 Toxic Effects on Humans:	Material is irritating to mucous membranes and upper respiratory tract. (Magnesium chloride hexahydrate)
12. ECOLOGICAL INFORMATION:	
12.1 Environmental Summary:	No data available.
12.2 Degradability:	Product will not biodegrade or accumulated.
13. DISPOSAL INFORMATION:	

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. TRANSPORT INFORMATION:

14.1 DOT Non-Bulk:	Not a DOT controlled material (United States).
14.2 DOT Bulk:	Not Regulated
14.3 IMDG:	Not Regulated
14.4 ICAO/IATA:	Not Regulated

15. REGULATORY INFORMATION:

15.1 Federal and State Regulations:	TSCA 8(b) inventory: Magnesium chloride hexahydrate; Water.
15.2 Other Regulations:	Not available. or of its ingredients
15.3 WHMIS (Canada):	Not controlled under WHMIS (Canada).
15.4 DSCL (EEC):::	This product is not classified according to the EU regulations.
15.5 HMIS (U.S.A.):	
15.5.1 Health Hazard:	1
15.5.2 Fire Hazard:	0
15.5.3 Reactivity:	0
15.5.4 Personal Protection:	a
15.6 National Fire Protection Association:	N/A

* To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

* All substances contained in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.

16. OTHER INFORMATION:

Recommended Uses and Restrictions:

A magnesium chloride product - We recommends that you use this product in a manner consistent with the listed use. If the intended use is not consistent with Evergreen Chemical stated use, please contact Customer Service.

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Customers are responsible for compliance with local, state and federal regulations that may be pertinent in the storage, application and disposal of this product.