

Material Safety Data Sheet (MSDS)

Product Name: Magnesium Chloride Hexahydrate Crystal LR Grade (Food Grade)

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Supplier:

Rawpharma Biz Pvt Ltd

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1. Identification of the Substance/Preparation and Company

Product Name: Magnesium Chloride Hexahydrate Crystal (LR Grade, Food Grade)

Synonyms: Magnesium Dichloride Hexahydrate

CAS No.: 7791-18-6

EINECS No.: 232-094-6

Molecular Formula: $\text{MgCl}_2 \cdot 6\text{H}_2\text{O}$

Molecular Weight: 203.3 g/mol

Recommended Use: Food additive, laboratory reagent, nutritional supplement, de-icing agent, and industrial applications.

2. Hazards Identification

- Not classified as hazardous under normal handling.
- May cause mild irritation to skin, eyes, and respiratory tract.
- Prolonged ingestion in large quantities may cause gastrointestinal discomfort.

3. Composition / Information on Ingredients

Chemical Name: Magnesium Chloride Hexahydrate

Purity: $\geq 99\%$

Grade: LR Grade (Food Grade)

4. First Aid Measures

- **Inhalation:** Move to fresh air. If irritation persists, seek medical attention.
 - **Skin Contact:** Wash with soap and water. Remove contaminated clothing.
 - **Eye Contact:** Rinse thoroughly with water for at least 15 minutes. Seek medical help if irritation continues.
 - **Ingestion:** Rinse mouth with water. Seek medical advice if discomfort occurs.
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5. Firefighting Measures

- **Suitable Extinguishing Media:** Use water spray, dry chemical, foam, or CO₂.
 - **Special Hazards:** Non-flammable, but may release hydrogen chloride fumes at high temperatures.
 - **Protective Equipment:** Firefighters should wear self-contained breathing apparatus (SCBA).
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6. Accidental Release Measures

- Wear protective gloves and mask.
 - Sweep up and collect in a dry container.
 - Avoid creating dust.
 - Wash spill site with water after material pickup.
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7. Handling and Storage

- Handle with care to avoid dust formation.
- Store in a tightly closed container.

- Keep in a cool, dry, and well-ventilated area.
- Protect from moisture and direct sunlight.

8. Exposure Controls / Personal Protection

- **Respiratory Protection:** Use dust mask if dust is generated.
- **Skin Protection:** Protective gloves recommended.
- **Eye Protection:** Safety goggles.
- **Workplace Hygiene:** Wash hands thoroughly after handling.

9. Physical and Chemical Properties

- **Appearance:** White crystalline solid
- **Odor:** Odorless
- **Solubility:** Freely soluble in water
- **Melting Point:** 116–118 °C (decomposes)
- **Boiling Point:** Not applicable (decomposes)
- **Density:** 1.56 g/cm³
- **pH (5% solution):** ~6–7

10. Stability and Reactivity

- **Stability:** Stable under normal conditions.
- **Incompatible Materials:** Strong oxidizing agents.
- **Hazardous Decomposition Products:** Hydrogen chloride gas on strong heating.

11. Toxicological Information

- **Acute Toxicity (Oral, Rat):** LD₅₀ > 2000 mg/kg (low toxicity).
- May cause mild irritation to eyes, skin, and mucous membranes.
- Not known to be carcinogenic, mutagenic, or teratogenic.

12. Ecological Information

- **Ecotoxicity:** Low environmental hazard.
- **Persistence & Degradability:** Readily soluble in water; dissociates into magnesium and chloride ions.
- **Bioaccumulation:** Not expected.

13. Disposal Considerations

- Dispose of in accordance with local regulations.
- Small quantities can be diluted with water and flushed away.
- Large quantities should be given to licensed disposal contractors.

14. Transport Information (Detailed)

- **UN Number:** Not applicable (Non-hazardous).
- **UN Proper Shipping Name:** Magnesium Chloride Hexahydrate, Non-hazardous chemical.
- **Transport Hazard Class(es):** Not classified as dangerous goods under ADR, RID, IMDG, ICAO/IATA.
- **Packing Group:** Not applicable.
- **Environmental Hazards:** Not considered dangerous for the environment.
- **Special Precautions for User:**
 - Prevent contact with moisture during transport.
 - Avoid generating dust in enclosed transport conditions.
 - Ensure containers are tightly sealed and properly labeled.
- **Transport in Bulk (Annex II MARPOL 73/78 and IBC Code):** Not regulated for bulk transport.
- **Regulatory Status:** This product is not classified as hazardous for transport by road, rail, sea, or air.

15. Regulatory Information

- Complies with food-grade standards.
- Not classified as hazardous according to EU CLP, OSHA, or GHS guidelines.
- No special labeling required.

16. Other Information

- The information provided is accurate to the best of our knowledge at the date of revision.
- Intended for safe handling, transport, and use.
- Users are responsible for ensuring suitability for specific applications.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.