

Material Safety Data Sheet (MSDS)

Product Name: Magnesium Chloride 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 Food Grade

Chemical Name: Magnesium Dichloride

Synonyms: Magnesium Chloride Anhydrous / Hexahydrate

Molecular Formula: MgCl_2 or $\text{MgCl}_2 \cdot 6\text{H}_2\text{O}$

Molecular Weight: 95.21 (Anhydrous) / 203.3 (Hexahydrate)

CAS Number: 7786-30-3

2. Hazard Identification

- **Classification:** Non-hazardous for food use.
- **GHS Classification:** Not classified as dangerous according to Regulation (EC) No 1272/2008.
- **Physical Hazards:** None known.
- **Health Hazards:** Slightly irritating to eyes and skin in concentrated form.

- **Environmental Hazards:** Non-toxic to aquatic life in normal use concentrations.
- **Signal Word:** None
- **Hazard Statements:** Not hazardous under normal handling and use.

3. Composition / Information on Ingredients

Magnesium Chloride Food Grade consists primarily of **Magnesium Chloride (MgCl₂)** with a minimum purity of **99.0%**.

It may contain trace amounts of water of crystallization (in hexahydrate form) and negligible impurities permitted within food-grade specifications.

4. First Aid Measures

- **Inhalation:** Move person to fresh air. Seek medical advice if symptoms persist.
- **Skin Contact:** Wash with plenty of water. Remove contaminated clothing.
- **Eye Contact:** Rinse thoroughly with clean water for several minutes. Seek medical attention if irritation persists.
- **Ingestion:** Rinse mouth and drink plenty of water. Seek medical help if discomfort occurs.

5. Fire-Fighting Measures

- **Suitable Extinguishing Media:** Use dry chemical, foam, water spray, or carbon dioxide.
- **Unsuitable Media:** None known.
- **Special Hazards:** Non-flammable, but may release hydrogen chloride fumes when heated to decomposition.
- **Protective Equipment:** Wear protective clothing and self-contained breathing apparatus in case of fire.

6. Accidental Release Measures

- **Personal Precautions:** Avoid contact with eyes and prolonged skin exposure.
- **Environmental Precautions:** Prevent entry into waterways or drains in large amounts.
- **Methods for Cleaning Up:** Sweep or vacuum and collect in labeled containers for reuse or disposal.

7. Handling and Storage

- **Handling:** Avoid direct contact with eyes. Use personal protective equipment where necessary.
- **Storage:** Store in a cool, dry, and well-ventilated area. Keep containers tightly closed to prevent moisture absorption.
- **Incompatibilities:** Avoid strong oxidizing agents.

8. Exposure Controls / Personal Protection

- **Exposure Limits:** Not established.
- **Engineering Controls:** Ensure good ventilation.
- **Personal Protective Equipment:**
 - **Respiratory Protection:** Not required under normal use.
 - **Hand Protection:** Gloves recommended.
 - **Eye Protection:** Safety goggles recommended.
 - **Skin Protection:** Protective clothing where contact may occur.

9. Physical and Chemical Properties

- **Appearance:** White crystalline solid or flakes
- **Odor:** Odorless
- **Solubility:** Soluble in water
- **pH (solution):** 6.5 – 7.5
- **Melting Point:** 714°C (Anhydrous)
- **Boiling Point:** Decomposes before boiling
- **Density:** 2.32 g/cm³ (Anhydrous)
- **Flash Point:** Not applicable
- **Vapor Pressure:** Not applicable

10. Stability and Reactivity

- **Stability:** Stable under normal conditions.
 - **Conditions to Avoid:** Excessive heat and moisture.
 - **Incompatible Materials:** Strong oxidizers, strong acids.
 - **Hazardous Decomposition Products:** Hydrogen chloride gas under high temperatures.
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11. Toxicological Information

- **Acute Toxicity:** Low toxicity.
 - **Skin Corrosion/Irritation:** Mild irritation possible.
 - **Eye Irritation:** May cause mild irritation.
 - **Inhalation:** Dust may irritate respiratory tract.
 - **Ingestion:** Large doses may cause gastrointestinal upset.
 - **Chronic Effects:** None known.
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12. Ecological Information

- **Ecotoxicity:** Not expected to be toxic to aquatic life.
 - **Persistence and Degradability:** Inorganic material, stable in environment.
 - **Bioaccumulation:** Not expected.
 - **Mobility in Soil:** High water solubility indicates high mobility.
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13. Disposal Considerations

- **Product Disposal:** Dispose of in accordance with local and national regulations.
 - **Packaging Disposal:** Recycle or reuse containers where possible.
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14. Transport Information (Detailed)

- **UN Number:** Not applicable
- **UN Proper Shipping Name:** Not regulated as a hazardous material

- **Transport Hazard Class:** Not classified as dangerous goods
- **Packing Group:** Not applicable
- **Environmental Hazards:** Not classified as environmentally hazardous
- **Special Precautions for User:** Avoid contact with moisture; ensure packaging is sealed properly.
- **Transport by Road (ADR/RID):** Not restricted
- **Transport by Sea (IMDG):** Not restricted; non-marine pollutant
- **Transport by Air (IATA):** Not restricted; can be transported safely by air cargo or passenger aircraft
- **Label Required:** None
- **Hazard Symbol:** None
- **Remarks:** Magnesium Chloride Food Grade is a non-hazardous, non-flammable, and stable product under normal transport conditions. Ensure dry storage during transit to prevent clumping due to hygroscopic nature.

15. Regulatory Information

- **Regulation Compliance:** Conforms to Food Grade standards under FSSAI and Codex Alimentarius.
- **GHS Classification:** Not classified as hazardous.
- **Labeling Requirements:** None required for food-grade material.

16. Other Information

The information is believed to be correct but does not claim to be all-inclusive. The user must ensure suitability and safety for intended use.

- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.