

Material Safety Data Sheet (MSDS)

Product Name: Magnesium Chloride Anhydrous Powder

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Supplier:

Rawpharma Biz Pvt Ltd

1101- City Centre 2,

Science City Road,

Sola Ahmedabad Gujarat,

India - 380060.

Contact No.: +91 97272 88479

Email: info@rawpharmabiz.com

Website: www.rawpharmabiz.com

1. Identification of the Substance/Preparation and Company

- **Product Name:** Magnesium Chloride Anhydrous Powder
- **Synonyms:** Magnesium dichloride, Anhydrous $MgCl_2$
- **Recommended Use:** Laboratory chemicals, industrial applications, food additives, pharmaceuticals.

2. Hazards Identification

- **Classification (GHS):** Not classified as hazardous under normal conditions.
- **Potential Health Effects:**
 - *Inhalation:* Dust may cause mild respiratory irritation.
 - *Skin Contact:* Prolonged contact may cause slight irritation.
 - *Eye Contact:* Dust may cause mechanical irritation.
 - *Ingestion:* Large doses may cause nausea, vomiting, diarrhea.

- **Signal Word:** None required.
 - **Hazard Statements:** Not considered hazardous.
-

3. Composition / Information on Ingredients

- **Chemical Name:** Magnesium Chloride Anhydrous
 - **CAS Number:** 7786-30-3
 - **Molecular Formula:** MgCl_2
 - **Molecular Weight:** 95.21 g/mol
 - **Purity:** >99%
-

4. First Aid Measures

- **Inhalation:** Remove to fresh air. Seek medical advice if symptoms persist.
 - **Skin Contact:** Wash with soap and water. Remove contaminated clothing.
 - **Eye Contact:** Rinse cautiously with plenty of water for several minutes. Seek medical attention if irritation continues.
 - **Ingestion:** Rinse mouth with water. Do not induce vomiting. Seek medical advice.
-

5. Fire-Fighting Measures

- **Suitable Extinguishing Media:** Use water spray, dry chemical, foam, or CO_2 .
 - **Specific Hazards:** Not combustible, but may release hydrogen chloride gas when in contact with moisture and heat.
 - **Protective Equipment:** Firefighters should wear self-contained breathing apparatus.
-

6. Accidental Release Measures

- **Personal Precautions:** Avoid dust inhalation. Use protective gloves and goggles.
- **Environmental Precautions:** Prevent large quantities from entering drains or waterways.
- **Methods for Cleaning:** Sweep up and place in suitable container. Avoid creating dust.

7. Handling and Storage

- **Handling:** Handle in accordance with good industrial hygiene. Avoid inhalation of dust.
- **Storage:** Store in a cool, dry, and well-ventilated area. Keep container tightly closed. Hygroscopic material.

8. Exposure Controls / Personal Protection

- **Engineering Controls:** Use adequate ventilation.
- **Personal Protective Equipment:**
 - *Respiratory Protection:* Dust mask if dust is generated.
 - *Eye Protection:* Safety goggles.
 - *Skin Protection:* Gloves and protective clothing.

9. Physical and Chemical Properties

- Appearance: White crystalline powder
- Odor: Odorless
- Melting Point: 714 °C
- Solubility: Highly soluble in water
- pH (aqueous solution): ~6.5 – 7.0
- Density: ~2.32 g/cm³

10. Stability and Reactivity

- **Stability:** Stable under normal conditions.
- **Reactivity:** Reacts with water to form hydrated salts.
- **Incompatible Materials:** Strong oxidizers, strong acids.
- **Hazardous Decomposition Products:** Hydrogen chloride gas under fire conditions.

11. Toxicological Information

- **Acute Toxicity:** LD50 (oral, rat): ~8100 mg/kg – low toxicity.
- **Irritation:** Mild skin and eye irritant.
- **Chronic Effects:** No known significant effects.
- **Carcinogenicity:** Not classified as carcinogenic.

12. Ecological Information

- **Ecotoxicity:** Not considered harmful to aquatic organisms in low concentrations.
- **Persistence & Degradability:** Inorganic salt, dissolves readily in water.
- **Mobility:** Readily soluble, mobile in the environment.

13. Disposal Considerations

- **Waste Disposal:** Dispose of in accordance with local regulations.
- **Contaminated Packaging:** Dispose of as unused product.

14. Transport Information (Detailed)

- **UN Number:** Not regulated as dangerous goods.
- **UN Proper Shipping Name:** Magnesium Chloride Anhydrous Powder
- **Transport Hazard Class(es):** Not classified as hazardous
- **Packing Group:** Not applicable
- **Environmental Hazards:** None identified
- **Transport in Bulk (IMDG/IMO):** Not subject to bulk transport restrictions
- **Special Precautions for User:**
 - Avoid contact with moisture during transport (hygroscopic).
 - Ensure containers are tightly sealed to prevent spillage.
 - Avoid generating dust during handling and loading.
- **Land Transport (ADR/RID):** Not regulated

- **Maritime Transport (IMDG):** Not regulated
- **Air Transport (IATA/ICAO):** Not regulated
- **Remarks:** Material is stable and non-hazardous during normal transportation. Only precaution required is to protect from moisture and contamination.

15. Regulatory Information

- Not classified as hazardous under EU CLP Regulation, US OSHA HazCom, or India Factories Act.
- No specific regulatory restrictions known.

16. Other Information

- The information provided is believed to be accurate and represents the best data currently available.
- It is the user's responsibility to determine the suitability of this product for their applications and to comply with applicable laws and regulations.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.