

Material Safety Data Sheet (MSDS)

Product Name: Magnesium Chloride Flakes

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 of the Company

- **Product Name:** Magnesium Chloride Flakes
- **Synonyms:** Magnesium Dichloride, $MgCl_2$
- **Chemical Formula:** $MgCl_2 \cdot 6H_2O$ (Hexahydrate, flakes form)

2. Hazards Identification

- **Classification (GHS):**
 - Eye Irritation: Category 2A
 - Skin Irritation: Category 3
- **Signal Word:** Warning
- **Hazard Statements:**

- Causes serious eye irritation.
 - May cause mild skin irritation.
 - **Precautionary Statements:**
 - Avoid contact with eyes, skin, and clothing.
 - Wash hands thoroughly after handling.
 - Use protective gloves and safety glasses.
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3. Composition/Information on Ingredients

- **Substance:** Magnesium Chloride Hexahydrate (Flakes)
 - **CAS Number:** 7791-18-6
 - **EC Number:** 232-094-6
 - **Purity:** ≥ 98%
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4. First Aid Measures

- **Inhalation:** Remove person to fresh air. Seek medical advice if symptoms occur.
 - **Skin Contact:** Wash thoroughly with soap and water. Remove contaminated clothing.
 - **Eye Contact:** Rinse cautiously with water for at least 15 minutes. Seek immediate medical attention.
 - **Ingestion:** Rinse mouth, drink water. Do not induce vomiting. Seek medical attention.
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5. Fire Fighting Measures

- **Suitable Extinguishing Media:** Water spray, foam, CO₂, dry powder.
- **Hazardous Decomposition Products:** Hydrogen chloride gas, magnesium oxide fumes.
- **Protective Equipment:** Wear self-contained breathing apparatus and protective clothing.

6. Accidental Release Measures

- **Personal Precautions:** Avoid dust formation. Use PPE.
- **Environmental Precautions:** Prevent entry into drains or watercourses.
- **Clean-up Methods:** Sweep up flakes and place in a suitable container. Wash contaminated area with water.

7. Handling and Storage

- **Handling:** Avoid contact with eyes and skin. Avoid generating dust.
- **Storage:** Store in a cool, dry place. Keep container tightly closed. Protect from moisture.

8. Exposure Controls/Personal Protection

- **Occupational Exposure Limits:** Not established.
- **Engineering Controls:** Ensure good ventilation.
- **Personal Protection:**
 - Respiratory: Dust mask if dust is generated.
 - Hands: Protective gloves.
 - Eyes: Safety goggles.
 - Skin: Protective clothing.

9. Physical and Chemical Properties

- **Appearance:** White flakes, hygroscopic
- **Odor:** Odorless
- **pH (10% solution):** 6.5–7.5
- **Melting Point:** ~118°C (decomposes)

- **Boiling Point:** Not applicable (decomposes)
 - **Solubility in Water:** Highly soluble
 - **Density:** ~1.56 g/cm³
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10. Stability and Reactivity

- **Stability:** Stable under recommended storage conditions.
 - **Reactivity:** Hygroscopic, absorbs moisture.
 - **Incompatible Materials:** Strong oxidizers, strong acids.
 - **Decomposition Products:** HCl gas, magnesium oxide.
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11. Toxicological Information

- **Acute Toxicity:** LD50 oral (rat) ~ 8100 mg/kg
 - **Skin:** May cause mild irritation.
 - **Eyes:** Causes irritation.
 - **Inhalation:** Dust may cause respiratory irritation.
 - **Chronic Effects:** Prolonged exposure may affect electrolyte balance.
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12. Ecological Information

- **Ecotoxicity:** Not classified as environmentally hazardous.
 - **Persistence/Degradability:** Soluble in water, dissociates into natural ions.
 - **Bioaccumulation:** Not expected.
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13. Disposal Considerations

- **Product:** Dispose of in accordance with local regulations.
- **Packaging:** Dispose of as per local waste disposal authority guidelines.

14. Transport Information (Detailed)

- **UN Number:** Not regulated as a hazardous material under transport regulations.
- **UN Proper Shipping Name:** Not applicable.
- **Transport Hazard Class:** Not classified as dangerous goods.
- **Packing Group:** Not applicable.
- **Environmental Hazards:** Not a marine pollutant.
- **Special Precautions for User:**
 - Keep container tightly sealed to prevent moisture absorption.
 - Transport in clean, dry conditions.
 - Avoid transporting with strong acids or oxidizers.
- **Regulatory Transport Information:**
 - ADR/RID (Road/Rail): Not regulated
 - IMDG (Sea): Not regulated
 - IATA (Air): Not regulated
- **Additional Notes:** Although not classified as hazardous, magnesium chloride flakes are hygroscopic and should be transported in moisture-proof containers. Spillage during transport may cause slipperiness on roads.

15. Regulatory Information

- **GHS Classification:** Eye Irritant 2A, Skin Irritant 3
- **EU Regulation:** Not classified as hazardous under Regulation (EC) No 1272/2008
- **National Regulations:** Follow applicable local, state, and national regulations.

16. Other Information

- **Disclaimer:** The information provided is believed to be accurate and reliable to the best of our knowledge. However, Rawpharma Biz makes no warranty, expressed or implied, regarding the accuracy or completeness of this information. Users are responsible for ensuring suitability for their 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.