

Material Safety Data Sheet (MSDS)

Product Name: Light Magnesium Carbonate Food Grade

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Supplier:

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1. Identification of the Substance/Preparation and Company

- **Product Name:** Light Magnesium Carbonate Food Grade
- **Synonyms:** Magnesium Carbonate Hydroxide Hydrate, Magnesium Carbonate Light
- **Recommended Use:** Food additive, nutritional supplement, antacid, drying agent, filler in food & pharmaceutical applications.

2. Hazards Identification

- **Classification (GHS):** Not classified as hazardous.
- **Physical Hazards:** Non-flammable, non-explosive.
- **Health Hazards:** Inhalation of excessive dust may cause mild respiratory irritation.
- **Environmental Hazards:** Not regarded as dangerous for the environment.

3. Composition / Information on Ingredients

- **Chemical Formula:** $MgCO_3$

- **Molecular Weight:** 84.31 g/mol
- **CAS Number:** 546-93-0
- **EINECS Number:** 208-915-9
- **Purity:** ≥ 99% (Food Grade)

4. First Aid Measures

- **Inhalation:** Move to fresh air, rinse nose and mouth, seek medical advice if discomfort persists.
- **Skin Contact:** Wash with soap and water. No significant irritation expected.
- **Eye Contact:** Rinse cautiously with plenty of water for several minutes. Seek medical advice if irritation persists.
- **Ingestion:** Rinse mouth and drink water. Safe in small food-grade quantities, but seek medical advice for large accidental ingestion.

5. Fire-Fighting Measures

- **Suitable Extinguishing Media:** Use water spray, foam, dry powder, or CO₂.
- **Fire Hazards:** Non-combustible.
- **Protective Equipment:** Firefighters should wear standard protective clothing and self-contained breathing apparatus.

6. Accidental Release Measures

- Avoid dust formation.
- Sweep up and place in suitable containers for disposal.
- Ventilate area and wash spill site with water after material pickup.

7. Handling and Storage

- **Handling:** Avoid creating dust clouds. Use appropriate dust masks if necessary.
- **Storage:** Store in tightly sealed containers in a dry, cool, and well-ventilated place. Keep away from moisture, acids, and incompatible substances.

8. Exposure Controls / Personal Protection

- **Exposure Limits:** No occupational exposure limits established.
- **Respiratory Protection:** Use dust mask if dust is generated.
- **Eye Protection:** Safety glasses recommended.
- **Skin Protection:** Normal working clothing is sufficient.

9. Physical and Chemical Properties

- **Appearance:** White, light, odorless powder.
- **Odor:** Odorless.
- **Solubility:** Practically insoluble in water, soluble in acids.
- **Melting/Decomposition Temperature:** > 350 °C (decomposes to $\text{MgO} + \text{CO}_2$).
- **Density:** 2.16 g/cm³
- **pH (suspension in water):** ~9–10

10. Stability and Reactivity

- **Stability:** Stable under normal storage and handling conditions.
- **Incompatible Materials:** Acids (releases CO_2).
- **Hazardous Decomposition Products:** Magnesium oxide, carbon dioxide.

11. Toxicological Information

- **Acute Toxicity:** Non-toxic at food-grade levels.
- **Skin Contact:** No irritation expected.
- **Eye Contact:** May cause slight irritation due to dust.
- **Inhalation:** Prolonged exposure to dust may cause minor respiratory irritation.
- **Ingestion:** Safe as a food additive within prescribed limits.

12. Ecological Information

- **Environmental Fate:** Non-hazardous to environment.
- **Biodegradability:** Inorganic substance, not biodegradable but occurs naturally.
- **Aquatic Toxicity:** Not toxic to aquatic organisms.

13. Disposal Considerations

- Dispose of in accordance with local regulations.
- Can be disposed of as non-hazardous solid waste.

14. Transport Information (Detailed)

- **UN Number:** Not applicable (non-hazardous).
- **Proper Shipping Name:** Light Magnesium Carbonate Food Grade
- **Transport Hazard Class:** Not classified as dangerous goods under ADR, RID, IMDG, ICAO/IATA.
- **Packing Group:** Not applicable.
- **Environmental Hazards:** None.
- **Special Precautions:**
 - Ensure containers are sealed to prevent moisture absorption.
 - Avoid generating airborne dust during handling and transport.
 - Transport in clean, dry vehicles or containers to prevent contamination.
- **Regulatory Information:**
 - **ADR/RID (Road/Rail):** Not regulated.
 - **IMDG (Sea):** Not regulated, no marine pollutant.
 - **IATA (Air):** Not regulated, can be shipped safely by air.

15. Regulatory Information

- Complies with international food additive and pharmaceutical standards.
- Not classified as hazardous under OSHA, EU CLP, or UN regulations.

16. Other Information

- This MSDS is prepared in accordance with international guidelines.
- The information provided is believed to be accurate but is not exhaustive.
- Users are responsible for ensuring safe working conditions and compliance 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.