

Material Safety Data Sheet (MSDS)

Product Name: Calcium 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:** Calcium Carbonate – Food Grade
- **Chemical Formula:** CaCO_3
- **Molecular Weight:** 100.09 g/mol
- **Intended Use:** Food additive, nutritional supplement, antacid, pH regulator.

2. Hazards Identification

- **Classification (GHS):** Not classified as hazardous.
- **Primary Hazards:** Dust may cause slight eye or respiratory irritation.
- **Target Organs:** Eyes, respiratory system (from dust exposure).
- **Emergency Overview:** Non-flammable, non-toxic, stable solid.

3. Composition/Information on Ingredients

- **Chemical Name:** Calcium Carbonate
 - **CAS Number:** 471-34-1
 - **EC Number:** 207-439-9
 - **Purity:** ≥ 98% (Food Grade)
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4. First Aid Measures

- **Inhalation:** Move to fresh air; seek medical attention if irritation persists.
 - **Skin Contact:** Wash with soap and water.
 - **Eye Contact:** Rinse with plenty of water; seek medical advice if irritation persists.
 - **Ingestion:** Non-toxic in small amounts; if discomfort occurs, consult a physician.
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5. Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water, foam, CO₂, dry chemical.
 - **Special Hazards:** Non-flammable; may release CO₂ at high temperatures (> 825 °C).
 - **Protective Equipment:** Standard fire-fighting protective gear.
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6. Accidental Release Measures

- **Personal Protection:** Avoid inhalation of dust; wear dust mask and safety glasses.
 - **Spill Cleanup:** Sweep up, avoid dust generation, collect in suitable container.
 - **Environmental Precautions:** Avoid large releases into waterways.
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7. Handling and Storage

- **Handling:** Avoid generating dust; use in well-ventilated areas.
 - **Storage:** Store in a cool, dry place, away from acids.
 - **Packaging:** Food-grade approved containers, tightly sealed.
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8. Exposure Controls/Personal Protection

- **Exposure Limits (OSHA PEL):** 15 mg/m³ (total dust).
 - **Respiratory Protection:** Dust mask if dust levels are high.
 - **Eye Protection:** Safety glasses.
 - **Skin Protection:** Gloves if prolonged contact.
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9. Physical and Chemical Properties

- **Appearance:** White, odorless powder/granules.
 - **Odor:** Odorless.
 - **pH (suspension in water):** 8–9.5
 - **Melting Point/Decomposition:** Decomposes > 825 °C (releases CO₂).
 - **Density:** 2.7 g/cm³
 - **Solubility:** Insoluble in water; soluble in acids.
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10. Stability and Reactivity

- **Stability:** Stable under normal conditions.
 - **Hazardous Reactions:** Reacts with acids to release CO₂.
 - **Incompatible Materials:** Strong acids.
 - **Decomposition Products:** Calcium oxide, carbon dioxide.
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11. Toxicological Information

- **Acute Toxicity:** LD₅₀ (oral, rat): > 6450 mg/kg (non-toxic).
 - **Irritation:** May cause mild mechanical eye/respiratory irritation.
 - **Carcinogenicity:** Not classified as carcinogenic.
 - **Chronic Effects:** No known adverse effects with normal use.
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12. Ecological Information

- **Ecotoxicity:** Non-toxic to aquatic life.

- **Persistence & Degradability:** Inorganic, stable in environment.
- **Bioaccumulation:** Not expected.
- **Other:** Naturally occurring mineral.

13. Disposal Considerations

- **Waste Disposal:** Dispose in accordance with local regulations.
- **Non-hazardous waste:** Can be landfilled as per environmental guidelines.

14. Transport Information

Detailed Information:

- **UN Number:** Not applicable (non-hazardous).
- **UN Proper Shipping Name:** Not regulated.
- **Transport Hazard Class:** Not classified as dangerous goods.
- **Packing Group:** Not applicable.
- **Environmental Hazards:** None identified.
- **Special Precautions for User:** Avoid generating dust during loading/unloading.
- **Transport in Bulk (Annex II of MARPOL 73/78 and IBC Code):** Not regulated.

Mode-specific Transport Information:

- **Road (ADR/RID):** Not classified as hazardous for transport.
- **Sea (IMDG):** Not regulated; no marine pollutant.
- **Air (IATA/ICAO):** Not restricted; safe to transport.
- **Inland waterways:** Not hazardous.

Additional Note:

Calcium Carbonate Food Grade is widely transported in bulk and packaged forms worldwide. It poses no risk under normal handling and transport conditions, making it exempt from hazardous material regulations.

15. Regulatory Information

- **EU Regulations:** Not classified as hazardous under Regulation (EC) No. 1272/2008.
- **US Regulations (TSCA):** Listed.
- **Food Grade Compliance:** Conforms to IP/BP/USP/FCC standards for food use.

16. Other Information

- **Disclaimer:** The information in this MSDS is believed to be accurate and is offered in good faith. It is the responsibility of the user to determine suitability for their specific application.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.