

Material Safety Data Sheet (MSDS)

Product Name: Calcium Carbonate DC Granules IP/BP/USP 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 DC Grade Granules
- **Synonyms:** Precipitated Calcium Carbonate Granules, DC Grade Calcium Carbonate
- **Chemical Formula:** CaCO_3
- **Intended Use:** Pharmaceutical excipient, food additive, nutraceuticals, feed, and industrial applications.

2. Hazards Identification

- **Classification:** Non-hazardous under GHS.
- **Potential Health Effects:**
 - *Inhalation:* Dust may cause mild respiratory irritation.
 - *Skin Contact:* Prolonged contact may cause dryness.
 - *Eye Contact:* Dust may cause mechanical irritation.

- *Ingestion:* Low toxicity; large amounts may cause gastrointestinal discomfort.
 - **Environmental Hazards:** Not classified as hazardous to the environment.
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3. Composition/Information on Ingredients

- **Substance:** Calcium Carbonate (CaCO_3)
 - **Purity:** $\geq 98\%$
 - **Grade:** IP/BP/USP, Direct Compression (DC) Granules
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4. First Aid Measures

- **Inhalation:** Move to fresh air; seek medical advice if irritation persists.
 - **Skin Contact:** Wash with soap and water.
 - **Eye Contact:** Rinse cautiously with water for several minutes; seek medical attention if irritation persists.
 - **Ingestion:** Rinse mouth and drink water; seek medical attention if discomfort occurs.
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5. Firefighting Measures

- **Suitable Extinguishing Media:** Water, foam, dry chemical, CO_2 .
 - **Specific Hazards:** Non-combustible; may release CO_2 on decomposition.
 - **Protective Equipment:** Use standard protective gear.
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6. Accidental Release Measures

- **Personal Protection:** Avoid dust formation, use mask and goggles.
 - **Spill Cleanup:** Sweep up and place in appropriate container; avoid raising dust.
 - **Environmental Precautions:** Prevent uncontrolled discharge into drains.
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7. Handling and Storage

- **Handling:** Avoid dust inhalation; use in well-ventilated areas.
- **Storage:** Store in tightly sealed containers, in a dry, cool, and ventilated place. Protect from moisture and contamination.

8. Exposure Controls/Personal Protection

- **Exposure Limits:** TLV (ACGIH): 10 mg/m³ (inhalable dust).
- **Engineering Controls:** Provide adequate ventilation.
- **PPE:**
 - Respiratory protection: Dust mask.
 - Eye protection: Safety glasses.
 - Skin protection: Gloves.

9. Physical and Chemical Properties

- **Appearance:** White, free-flowing granules
- **Odor:** Odorless
- **Melting Point/Decomposition:** Decomposes at ~825 °C
- **Solubility:** Insoluble in water, soluble in acids with effervescence
- **pH (suspension in water):** 9–10
- **Bulk Density:** 0.9 – 1.3 g/cm³

10. Stability and Reactivity

- **Stability:** Stable under normal conditions.
- **Decomposition Products:** CO₂ and CaO upon strong heating.
- **Incompatible Materials:** Acids (releases CO₂ gas).

11. Toxicological Information

- **Acute Toxicity:** LD₅₀ (oral, rat) > 5000 mg/kg (non-toxic).
- **Irritation:** Mild mechanical irritation possible to eyes and respiratory tract.
- **Carcinogenicity:** Not classified as carcinogenic.

12. Ecological Information

- **Ecotoxicity:** Not harmful to aquatic organisms.
- **Mobility:** Low mobility in soil and water.
- **Biodegradability:** Inorganic, not biodegradable but environmentally benign.

13. Disposal Considerations

- **Waste Disposal:** Dispose of in accordance with local regulations. Not classified as hazardous waste.
- **Packaging Disposal:** Recycle or dispose as per regional requirements.

14. Transport Information (Detailed)

- **UN Number:** Not applicable (non-hazardous).
- **UN Proper Shipping Name:** Calcium Carbonate DC Grade Granules
- **Transport Hazard Class:** Not classified as dangerous goods under ADR, IMDG, or IATA.
- **Packing Group:** Not applicable.
- **Environmental Hazards:** None; material is non-toxic, non-flammable, and non-hazardous to aquatic life.
- **Special Precautions for User:**
 - Ensure packaging is intact and properly sealed to prevent spillage or moisture absorption.
 - Avoid generating dust during loading/unloading.
- **Transport in Bulk (Annex II of MARPOL 73/78 and IBC Code):** Not regulated.
- **Road/Rail (ADR/RID):** Not regulated; transport with general cargo.
- **Sea Transport (IMDG):** Not regulated; can be shipped in standard containers or bulk bags.
- **Air Transport (IATA):** Not regulated; transport as general cargo.
- **Labelling Requirements for Transport:** No hazard label required.

15. Regulatory Information

- **Regulation Compliance:**
 - IP/BP/USP Standards
 - REACH Exempt (naturally occurring mineral, non-hazardous)
 - Not listed under OSHA, TSCA, or EC hazardous substances.
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16. Other Information

- **Disclaimer:** Information provided is based on current knowledge and intended to describe product safety requirements. It should not be construed as guaranteeing specific properties.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.