



**Address:** Block - 263/03, Santej,  
Ta-Kalol, Dis-Gandhinagar,  
Gujarat-382721

**Phone :** 832 031 0672

**Web:** [www.sbfpharma.com](http://www.sbfpharma.com)

**E-mail:** [info@sbfpharma.com](mailto:info@sbfpharma.com)

**CIN:** U24230GJ2011PTC064654

# Material Safety Data Sheet (MSDS)

**Product Name:** Calcium Carbonate BP/USP Grade

**MSDS Generate Date:** 20-05-2017

**Revision Date:** 30-12-2024

**Manufacturer / Supplier:**

SBF Pharma

Block - 263/03, Santej - Vadasar Road,

Ta - Kalol, Dis - Gandhinagar,

Gujarat, India - 382721

**Contact No.:** +91 832 031 0672

**Email:** [info@sbfpharma.com](mailto:info@sbfpharma.com)

**Website:** [www.sbfpharma.com](http://www.sbfpharma.com)

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## 1. Identification of the Substance/Preparation and of the Company

- **Product Name:** Calcium Carbonate Heavy
- **Synonyms:** Limestone, Calcite, Chalk
- **Molecular Formula:**  $\text{CaCO}_3$
- **Molecular Weight:** 100.09 g/mol
- **Intended Use:** Pharmaceutical, Food additive, Industrial applications (IP/BP/USP grade).

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## 2. Hazards Identification

- **Classification (GHS):** Not classified as hazardous.
- **Physical State:** White powder/granules.
- **Hazard Statement:** Not considered hazardous under normal use.

- **Precautionary Statements:**
    - Avoid breathing dust.
    - Use in well-ventilated areas.
    - Wear protective mask if dust is generated.
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### 3. Composition/Information on Ingredients

- **Chemical Name:** Calcium Carbonate
  - **CAS No.:** 471-34-1
  - **EINECS No.:** 207-439-9
  - **Purity:** ≥ 98% (Heavy, BP/USP Grade)
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### 4. First Aid Measures

- **Inhalation:** Move to fresh air. If discomfort persists, seek medical advice.
  - **Skin Contact:** Wash with soap and water. No adverse effects expected.
  - **Eye Contact:** Rinse cautiously with water for several minutes. Seek medical attention if irritation persists.
  - **Ingestion:** Non-toxic; rinse mouth and drink water if large amount is ingested.
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### 5. Fire Fighting Measures

- **Suitable Extinguishing Media:** Not flammable. Use media suitable for surrounding fire.
  - **Special Hazards:** Decomposes on heating above 825 °C, releasing carbon dioxide.
  - **Protective Equipment:** Wear protective gear for surrounding fire conditions.
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### 6. Accidental Release Measures

- Avoid generating dust.
- Sweep up and collect in suitable container.
- Provide adequate ventilation.
- Dispose according to local regulations.

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## 7. Handling and Storage

- **Handling:** Avoid dust formation. Use protective equipment if dust levels are high.
- **Storage:** Store in a cool, dry, and well-ventilated area. Keep container tightly closed.

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## 8. Exposure Controls/Personal Protection

- **Occupational Exposure Limits (OEL):**
  - ACGIH TLV: 10 mg/m<sup>3</sup> (inhalable dust)
- **Engineering Controls:** Use local exhaust ventilation if dust is generated.
- **Personal Protective Equipment:**
  - Respiratory Protection: Dust mask.
  - Eye Protection: Safety goggles.
  - Hand Protection: Gloves if prolonged contact.

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## 9. Physical and Chemical Properties

- **Appearance:** White crystalline powder/granules.
- **Odor:** Odorless
- **pH (suspension in water):** 8 – 9
- **Melting Point:** Decomposes at 825 °C
- **Solubility in Water:** Practically insoluble (0.013 g/L at 25 °C)
- **Density (bulk):** 2.7 g/cm<sup>3</sup>

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## 10. Stability and Reactivity

- **Stability:** Stable under normal conditions.
- **Conditions to Avoid:** Avoid high temperatures (above decomposition).
- **Incompatible Materials:** Strong acids (releases CO<sub>2</sub>).
- **Hazardous Decomposition Products:** CO<sub>2</sub> on decomposition.

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## 11. Toxicological Information

- **Acute Toxicity:** LD<sub>50</sub> (oral, rat) > 5000 mg/kg (non-toxic).
- **Skin/Eye Contact:** May cause mild irritation by mechanical action (dust).
- **Chronic Effects:** No known adverse effects when used appropriately.
- **Carcinogenicity:** Not listed as carcinogenic (IARC, OSHA, ACGIH).

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## 12. Ecological Information

- **Ecotoxicity:** Not harmful to aquatic life.
- **Persistence and Degradability:** Inorganic substance; stable in environment.
- **Bioaccumulation:** Not expected.
- **Mobility in Soil:** Low mobility; insoluble in water.

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## 13. Disposal Considerations

- Dispose in accordance with local, regional, and national regulations.
- Can be disposed as non-hazardous waste.
- Avoid disposal into waterways in large quantities.

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## 14. Transport Information (Detailed)

- **UN Number:** Not applicable (non-hazardous).
- **UN Proper Shipping Name:** Calcium Carbonate, Heavy
- **Transport Hazard Class:** Not classified as hazardous for transport.
- **Packing Group:** Not applicable.
- **Label Required:** None (non-dangerous goods).
- **Environmental Hazards:** Not environmentally hazardous.
- **Transport in Bulk (IMDG, IBC Code):** Not applicable.
- **Special Precautions for User:**

- Ensure packaging is secure to prevent dust release.
- Protect from moisture during transportation.
- Transport under dry conditions.
- **Mode-Specific Guidance:**
  - **Road (ADR/RID):** Not restricted.
  - **Air (IATA/ICAO):** Not restricted.
  - **Sea (IMDG/IMO):** Not restricted.
  - **Rail:** Not restricted.

**Conclusion:** Calcium Carbonate Heavy IP/BP/USP Grade is **non-hazardous, non-flammable, and non-dangerous** for all modes of transportation.

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## 15. Regulatory Information

- Not classified as hazardous according to EU CLP Regulation (EC) No. 1272/2008.
  - Exempt from REACH registration for natural substances.
  - Listed in pharmacopeias (IP/BP/USP) for pharmaceutical use.
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## 16. Other Information

- **References:** IP/BP/USP standards, ECHA database, ILO chemical safety cards.
- **Disclaimer:** Information is accurate to the best of our knowledge. Users are responsible for ensuring suitability for their application.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** [www.sbfpharma.com](http://www.sbfpharma.com)
- MSDS are based on the manufacturer's provided information.