

Material Safety Data Sheet (MSDS)

Product Name: Precipitated/ Light Calcium Carbonate IP Grade

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Supplier:

Rawpharma Biz Pvt Ltd

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1. Identification of the Substance/Company

- **Substance Name:** Precipitated / Light Calcium Carbonate
- **Synonyms:** PCC, Light Calcium Carbonate, Precipitated Chalk
- **Recommended Use:** Pharmaceutical excipient (IP Grade), filler in tablets, suspensions, antacids.
- **Restrictions on Use:** Not for explosive or flammable applications.

2. Hazards Identification

- **Classification (GHS):** Not classified as hazardous.
- **Hazard Statement:** May cause mild irritation to eyes, skin, and respiratory tract due to dust.
- **Precautionary Statements:** Avoid inhalation of dust. Use protective equipment where necessary.

3. Composition / Information on Ingredients

- **Chemical Name:** Calcium Carbonate
 - **Formula:** CaCO_3
 - **CAS No.:** 471-34-1
 - **Purity:** $\geq 98\%$ (IP Grade)
 - **Impurities:** Not hazardous.
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4. First Aid Measures

- **Inhalation:** Move to fresh air. If irritation persists, seek medical attention.
 - **Skin Contact:** Wash with soap and water. No severe effects expected.
 - **Eye Contact:** Rinse thoroughly with water. Seek medical help if irritation persists.
 - **Ingestion:** Safe in small pharmaceutical quantities; for accidental ingestion of large amounts, rinse mouth and seek advice.
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5. Fire Fighting Measures

- **Flammability:** Non-flammable.
 - **Suitable Extinguishing Media:** Use water, foam, dry chemical, or CO_2 .
 - **Special Hazards:** None. Decomposes at $>825^\circ\text{C}$ releasing CO_2 .
 - **Protective Equipment:** Standard protective gear.
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6. Accidental Release Measures

- Avoid generating dust.
 - Sweep or vacuum up material.
 - Dispose of in accordance with local regulations.
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7. Handling and Storage

- **Handling:** Avoid inhalation of dust. Use in well-ventilated area.
- **Storage:** Store in cool, dry, covered area away from acids and moisture.

8. Exposure Controls / Personal Protection

- **Occupational Exposure Limits:**
 - ACGIH TLV (TWA): 10 mg/m³ (inhalable dust).
- **Engineering Controls:** Local exhaust ventilation if dust levels exceed limits.
- **PPE:** Dust mask, safety glasses, gloves recommended.

9. Physical and Chemical Properties

- **Appearance:** White, odorless, fine powder
- **Odor:** Odorless
- **pH (suspension in water):** ~9
- **Melting/Decomposition Point:** >825°C (decomposes)
- **Solubility in Water:** Practically insoluble
- **Density:** 2.7 g/cm³

10. Stability and Reactivity

- **Stability:** Stable under normal conditions.
- **Incompatible Materials:** Acids (releases CO₂).
- **Hazardous Decomposition:** CO₂ on heating.

11. Toxicological Information

- **Acute Toxicity:** Non-toxic.
- **Inhalation:** May cause mechanical irritation.
- **Skin:** No adverse effects expected.
- **Eyes:** May cause mild irritation.
- **Ingestion:** Non-toxic, widely used in food and pharma.

12. Ecological Information

- **Ecotoxicity:** Not hazardous to the environment.
- **Persistence & Degradability:** Naturally occurring mineral.
- **Bioaccumulation:** Not expected.

13. Disposal Considerations

- Dispose of in accordance with local regulations.
- Non-hazardous waste.
- Can be used for neutralization of acidic waste streams.

14. Transport Information (Detailed)

- **UN Number:** Not regulated under UN transport classification.
- **Proper Shipping Name:** Calcium Carbonate, Precipitated / Light (IP Grade)
- **Transport Hazard Class:** Not classified as hazardous for transport.
- **Packing Group:** Not applicable.
- **Label Requirements:** None.
- **Marine Pollutant:** No.
- **Special Precautions:**
 - Ensure containers are properly sealed to prevent dust emission.
 - Protect against moisture during transport.
 - Avoid contact with strong acids to prevent CO₂ release.
- **Transport by Road/Rail (ADR/RID):** Not restricted.
- **Transport by Air (IATA/ICAO):** Not restricted; pack securely to avoid spillage.
- **Transport by Sea (IMDG):** Not classified as dangerous; ensure containers are dry and secured.
- **Additional Notes:** Calcium carbonate is considered a safe, stable, and non-hazardous material during transit. Normal good transport practices should be followed.

15. Regulatory Information

- **GHS Classification:** Not hazardous.
- **REACH/TSCA Compliance:** Exempt / listed as a naturally occurring substance.
- **Pharmacopeia Standards:** IP compliant.

16. Other Information

- **Training Advice:** Handle with awareness of dust hazards.
- **Key References:** IP/BP/USP monographs, OSHA, ACGIH guidelines.
- **Disclaimer:** The information provided is accurate to the best of our knowledge at the date of issue. It is intended as guidance for safe handling, storage, and 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.