

Material Safety Data Sheet (MSDS)

Product Name: Calcium Gluconate BP 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/Preparation and Company

- **Product Name:** Calcium Gluconate BP Grade
- **Synonyms:** Calcium D-gluconate
- **CAS No.:** 299-28-5
- **Molecular Formula:** $C_{12}H_{22}CaO_{14}$
- **Molecular Weight:** 430.38 g/mol
- **Recommended Use:** Pharmaceutical ingredient, nutritional supplement, laboratory reagent

2. Hazard Identification

- **GHS Classification:** Not classified as hazardous
- **Physical Hazards:** None known
- **Health Hazards:** May cause mild irritation to eyes or skin upon prolonged exposure
- **Environmental Hazards:** Not expected to pose environmental risk

3. Composition / Information on Ingredients

- **Substance:** Calcium Gluconate
- **Purity:** BP Grade ($\geq 99.0\%$)
- **Nature:** Single component substance

4. First Aid Measures

- **Inhalation:** Move person to fresh air. Seek medical attention if discomfort persists.
- **Skin Contact:** Wash with soap and plenty of water.
- **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present.
- **Ingestion:** Rinse mouth. Do not induce vomiting. Seek medical advice if symptoms occur.

5. Fire Fighting Measures

- **Flammability:** Non-flammable
- **Suitable Extinguishing Media:** Water spray, dry chemical, CO₂, foam
- **Specific Hazards:** None known
- **Protective Equipment:** Standard fire-fighting protective gear

6. Accidental Release Measures

- Avoid dust formation
- Sweep or vacuum spilled material into suitable container
- Dispose according to local regulations
- Use personal protective equipment

7. Handling and Storage

- **Handling:** Handle in accordance with good laboratory and industrial hygiene practices

- **Storage:** Store in a cool, dry, well-ventilated area
 - **Incompatibilities:** Strong oxidizing agents
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8. Exposure Controls / Personal Protection

- **Exposure Limits:** Not established
 - **Engineering Controls:** Adequate ventilation
 - **Personal Protective Equipment:**
 - Gloves
 - Safety goggles
 - Dust mask if needed
 - **Hygiene Measures:** Wash hands after handling
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9. Physical and Chemical Properties

- **Appearance:** White or almost white crystalline powder
 - **Odor:** Odorless
 - **Solubility:** Soluble in water; practically insoluble in alcohol
 - **pH:** Neutral to slightly acidic
 - **Melting Point:** Decomposes
 - **Bulk Density:** Approx. 0.6–0.8 g/cm³
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10. Stability and Reactivity

- **Chemical Stability:** Stable under normal conditions
 - **Hazardous Reactions:** None known
 - **Conditions to Avoid:** Excessive heat, moisture
 - **Decomposition Products:** Carbon oxides, calcium oxide
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11. Toxicological Information

- **Acute Toxicity:** Low toxicity
- **Skin Irritation:** May cause mild irritation
- **Eye Irritation:** Mild irritation possible
- **Chronic Effects:** No known significant effects
- **Carcinogenicity:** Not listed as carcinogenic

12. Ecological Information

- **Ecotoxicity:** Not expected to be harmful
- **Persistence & Degradability:** Readily biodegradable
- **Bioaccumulation:** Not expected
- **Environmental Impact:** Low

13. Disposal Considerations

- Dispose of contents and container in accordance with local, regional, and national regulations
- Do not discharge into drains or water bodies

14. Transport Information (DETAILED)

- **UN Number:** Not assigned
- **UN Proper Shipping Name:** Not regulated
- **Transport Hazard Class:** Not classified as dangerous goods
- **Packing Group:** Not applicable

Transport Regulations:

- **ADR / RID (Road/Rail):** Not regulated
- **IMDG (Sea):** Not regulated
- **IATA (Air):** Not regulated

Special Transport Precautions:

- Ensure containers are tightly closed and properly labeled
- Protect from moisture during transport
- Handle with care to avoid dust generation

Environmental Transport Hazards:

- Not a marine pollutant
- No special environmental precautions required

15. Regulatory Information

- Complies with BP (British Pharmacopoeia) standards
- Not listed as hazardous under GHS, OSHA, or REACH
- Subject to pharmaceutical and food safety regulations as applicable

16. Other Information

- **Intended Use:** For industrial, pharmaceutical, and laboratory use only
- **Disclaimer:**

The information provided in this MSDS is based on current knowledge and is intended for guidance in safe handling, storage, and disposal. It does not constitute a guarantee of product 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.