

Material Safety Data Sheet (MSDS)

Product Name: Calcium Ascorbate 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/Preparation and Company

Product Name: Calcium Ascorbate IP Grade

Synonyms: Ascorbic Acid Calcium Salt, Calcium D-Ascorbate

CAS No.: 5743-28-2

Recommended Use: Nutraceutical, pharmaceutical, food additive, antioxidant.

2. Hazard(s) Identification

- Non-hazardous under normal handling conditions.
- Not classified as dangerous according to GHS.
- May cause mild irritation to eyes and respiratory tract if exposed to dust.
- **Precautionary Statements:**
 - Avoid creating dust.
 - Use adequate ventilation.

3. Composition / Information on Ingredients

Chemical Name: Calcium Ascorbate

Purity: $\geq 99\%$

Molecular Formula: C₁₂H₁₄CaO₁₂

Molecular Weight: 390.31 g/mol

4. First Aid Measures

Eye Contact: Rinse immediately with clean water for 10–15 minutes.

Skin Contact: Wash with soap and water.

Inhalation: Remove to fresh air. Seek medical attention if irritation persists.

Ingestion: Rinse mouth; drink water. Seek medical help if discomfort occurs.

5. Fire-Fighting Measures

- Non-flammable.
 - Suitable extinguishing media: Water spray, dry chemical, foam.
 - **Special Protective Equipment:** Firefighters should wear protective clothing.
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6. Accidental Release Measures

- Avoid dust formation.
 - Sweep up and collect in suitable containers.
 - Provide ventilation.
 - Prevent contamination of water sources.
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7. Handling & Storage

Handling:

- Avoid generating dust.
- Use PPE such as dust mask and goggles.

Storage:

- Store in a cool, dry place.
- Keep container tightly closed.
- Protect from light and moisture.

8. Exposure Controls / Personal Protection

Engineering Controls: Local exhaust ventilation recommended.

Personal Protection:

- Eye protection: Safety goggles
- Respiratory protection: N95 mask for dust
- Skin: Gloves
- Hygiene: Wash hands after handling

9. Physical & Chemical Properties

- Appearance: White to off-white crystalline powder
- Odor: Odorless
- Solubility: Soluble in water
- pH (10% solution): 6.8 – 7.2
- Melting Point: Not available
- Bulk Density: 0.6–0.8 g/mL

10. Stability & Reactivity

- Stable under normal temperatures.
- Conditions to Avoid: Heat, moisture, strong oxidizers.
- Hazardous Decomposition: CO₂, CO may form under extreme temperature.

11. Toxicological Information

- Low toxicity.
- May cause mild irritation to eyes and respiratory tract.
- Not mutagenic, not carcinogenic.

12. Ecological Information

- Not considered harmful to the environment.
- Biodegradable.
- No known bioaccumulation potential.

13. Disposal Considerations

- Dispose of in accordance with local regulations.
- Avoid releasing into sewage or waterways.

14. Transport Information (DETAILED)

Calcium Ascorbate IP Grade is **not classified as a hazardous material** for transport by any major regulatory body (DOT, IATA, IMDG). Transport is generally safe under normal conditions.

14.1 UN Number:

- Not applicable (Non-hazardous product)

14.2 UN Proper Shipping Name:

- Not regulated for transport
- Recommended name for documentation: **“Calcium Ascorbate IP Grade – Non-Hazardous”**

14.3 Transport Hazard Class(es):

- Not classified under any hazard class
- No subsidiary risks

14.4 Packing Group:

- Not applicable

14.5 Environmental Hazards:

- Not a marine pollutant
- No specific environmental hazards known

14.6 Special Precautions for Transport:

- Store in sealed containers to avoid moisture exposure
- Avoid crushing or damaging packaging
- Keep away from direct sunlight and high humidity

14.7 Transport Regulations Summary:

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

This product is safe for transport by **road, air, and sea** without any special requirements. Normal packaging (bags, drums, HDPE containers) is acceptable.

15. Regulatory Information

- Not listed as hazardous under global chemical inventories.
 - Complies with IP standards for pharmaceutical use.
 - No special regulatory restrictions.
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16. Other Information

- This MSDS is prepared based on available data and believed to be accurate.
- Users should evaluate conditions of use and comply with local safety regulations.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.