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MANUFACTURERS & EXPORTERS OF BULK DRUGS & FINE CHEMICALS
2, B. B. D. BAG (E), POWER TOOLS BHAVAN, 3RD FLOOR, KOLKATA - 700 001, INDIA

MATERIAL SAFETY DATA SHEET

FOR

CALCIUM D-GLUCARATE USP (CALCIUM D-SACCHARATE USP)

1. Identification

- a. *Product Name:* Calcium D-Saccharate
- b. *Synonym:* Calcium D-Glucarate
- c. *Chemical Formula:* $C_6H_8CaO_8 \cdot 4H_2O$
- d. *CAS No.:* 5793-89-5

2. Composition / information on the Components

- a. *Assay:* NLT 98.5% & NMT 102%
- b. *Chloride:* NMT 700 PPM
- c. *Sulphate:* NMT 1200 PPM

3. Hazard Identification

- a. The substance is a white crystalline powder, odourless and tasteless. It is an inert, harmless and neutral substance. The substance is not inflammable or combustible. It is not an explosive
- b. Health Effects
 - i. *Inhalation:* It is not volatile and practically odourless. No information found on inhalation hazards.
 - ii. *Eye:* No information found on Ocular hazards.
 - iii. *Skin:* No dermal hazards reported.
 - iv. *Ingestion:* It is an inert harmless neutral product. No hazard has been reported.
 - v. *Parenteral Administration:* No hazard has been reported when administered as stabilizer in calcium gluconate injection.

4. First aid Measure

- a. *Eyes:* Flush eyes with plenty of water for at least 30 minutes. Get medical advice
- b. *Skin:* Wipe the powder off and wash the affected area with plenty of water for at least 15 minutes. Contaminated clothing and shoes to be removed. Get medical advice if irritation develops.
- c. *Inhalation:* If feel sick, the person should be removed to fresh air. Get medical advice.
- d. *Ingestion:* Give 2 to 4 glasses of water. Get medical advice.

For Process Chemicals Co.

Q. A. Incharge

MEMBER

PHARMEXCIL ★ IDMA ★ BDMA (I) ★ ICMMA ★ BNCCI

Regd. Office & Factory at

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5. **Fire Fighting Measures:**

The material is not inflammable or explosive. The substance is not volatile. Suitable extinguishing measure required to be taken for the surrounding fire.

6. **Accidental Release Measures:**

Avoid contact wear gloves and protective shoes while collecting the spilled powder by suitable measure. Wash out the area with plenty of water.

7. **Handling and Storage:**

Wear gloves, wash thoroughly after handling. Wash hands before taking food or drinks. Store in a tightly closed container in a cool dry place away from sunlight.

8. **Exposure controls. Personal Protection:**

Engineering controls:

Use adequate general or local, explosion-proof ventilation to keep airborne levels to airborne levels to acceptable levels.

Personal Protective Equipment:

- Hand: Wear protective gloves
- Eyes: Wear chemical-safety goggles.
- Skin: Wear protective clothing.
- Respirators: Use an approved respirator

9. **Physical and Chemical Properties**

- **Description:** A white odourless, tasteless, crystalline powder.
- **Solubility:** Practically insoluble in water. Soluble in dilute mineral acids and in calcium gluconate solution.
- **Reaction:** Neutral to litmus.
- **Mol. Formula:** $C_6H_8CaO_8 \cdot 4H_2O$
- **Mol weight:** 320.26
- **Vapour density:** Not available
- **B. Pt. / M. Pt.:** Not available
- **Flash point:** CLOSED CUP: Higher than ~ 93.3 °C (200 °F)

10. **Stability and Reactivity**

The material is stable under recommended storage condition for five years from the manufacturing date. Exposure to light & heat to be avoided.

11. **Toxicity Data:**

The substance is harmless. No toxicity data has been reported for Oral, Dermal & Inhalation.

12. **Ecological information:**

No data available for Persistence & degradability / Bioaccumulative potential / Mobility in soil / Other adverse effects etc.

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13. Disposal considerations

To be disposed off in a manner consistent with federal, state and local regulations through a licensed Waste Manager

14. Transport Information

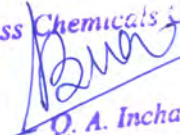
Not regulated as a hazardous material. To be transported under general local regulations. Not also restricted as per IATA and ICAO.

15. Regulatory information:

- No data available for Safety, health and environmental regulations / legislation specific for the substance or mixture
- No data available for Chemical Safety assessment

16. Other information:

The information contained in this data sheet is believed to be true to the best of our knowledge. But any recommendation and suggestion made in this sheet are without any warranty, express or implied, with respect to such information and we assure no liability for claims, losses & damages resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.

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