

Material Safety Data Sheet (MSDS)

Product Name: Sorbitol Food 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: Sorbitol Food Grade

Synonyms: D-Sorbitol, Glucitol

Chemical Formula: $C_6H_{14}O_6$

Molecular Weight: 182.17 g/mol

Recommended Use: Food additive, humectant, sweetener, stabilizer in foods and pharmaceuticals.

2. Hazard Identification

Classification: Not classified as hazardous under GHS.

Physical Hazards: None.

Health Hazards: May cause mild gastrointestinal discomfort in large quantities.

Environmental Hazards: Not expected to pose environmental hazards.

Label Elements:

- **Signal Word:** None required
- **Hazard Statements:** Not hazardous under normal use
- **Precautionary Statements:**
 - Avoid excessive ingestion.
 - Keep container tightly closed and dry.

3. Composition / Information on Ingredients

Sorbitol Food Grade consists primarily of Sorbitol (CAS No. 50-70-4) with a purity of not less than 98%. It contains no hazardous impurities or stabilizing additives.

4. First Aid Measures

- **Inhalation:** Move to fresh air if dust inhaled. Seek medical attention if irritation persists.
- **Skin Contact:** Wash with soap and water. No significant irritation expected.
- **Eye Contact:** Rinse with water for several minutes. Remove contact lenses if present.
- **Ingestion:** Non-toxic; large amounts may cause diarrhea or bloating. Drink water.

5. Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, dry chemical powder, foam, or CO₂.
- **Specific Hazards:** Combustion may produce carbon oxides.
- **Protective Equipment:** Firefighters should wear standard protective gear and self-contained breathing apparatus.

6. Accidental Release Measures

- **Personal Precautions:** Avoid dust formation; use adequate ventilation.
- **Environmental Precautions:** Prevent large quantities from entering drains.
- **Clean-up Methods:** Sweep up and collect in suitable containers for reuse or disposal.

7. Handling and Storage

- **Handling:** Avoid generating dust; use in well-ventilated area.
- **Storage:** Store in a cool, dry place away from moisture and strong oxidizers.
- **Packaging Materials:** Use airtight, moisture-proof containers.

8. Exposure Controls / Personal Protection

- **Occupational Exposure Limits:** Not established.
- **Respiratory Protection:** Not required under normal conditions.
- **Eye Protection:** Safety glasses recommended.
- **Skin Protection:** Gloves for prolonged contact.
- **General Hygiene:** Wash hands after handling.

9. Physical and Chemical Properties

- **Appearance:** White crystalline powder or viscous liquid (depending on form)
- **Odor:** Odorless
- **Taste:** Sweet
- **Melting Point:** 95–100°C (crystalline form)
- **Boiling Point:** > 290°C
- **Solubility:** Freely soluble in water
- **pH (10% solution):** 5.0 – 7.0
- **Density:** 1.49 g/cm³
- **Flash Point:** Not applicable
- **Vapor Pressure:** Negligible

10. Stability and Reactivity

- **Stability:** Stable under normal conditions.
- **Conditions to Avoid:** Excessive heat, moisture.

- **Incompatible Materials:** Strong oxidizing agents.
- **Hazardous Decomposition Products:** Carbon monoxide and carbon dioxide on combustion.

11. Toxicological Information

- **Acute Toxicity:** Non-toxic; LD₅₀ (oral, rat): > 15,000 mg/kg.
- **Skin & Eye Irritation:** Non-irritant.
- **Chronic Effects:** None known.
- **Carcinogenicity / Mutagenicity / Teratogenicity:** Not classified as carcinogenic.

12. Ecological Information

- **Eco-Toxicity:** Non-toxic to aquatic life.
- **Persistence & Degradability:** Readily biodegradable.
- **Bioaccumulation Potential:** Low.
- **Mobility in Soil:** High; water-soluble.

13. Disposal Considerations

- **Waste Disposal:** Dispose of according to local regulations.
- **Contaminated Packaging:** Can be recycled after proper cleaning.

14. Transport Information (Detailed)

UN Number: Not applicable (non-hazardous)

UN Proper Shipping Name: Sorbitol Food Grade

Transport Hazard Class: Not classified as hazardous for transport.

Packing Group: Not applicable

Environmental Hazards: None known

Special Precautions: Avoid moisture and contamination during transit.

Labeling Requirements: No hazard label required.

Transport in Bulk (Annex II of MARPOL / IBC Code): Not regulated.

Mode-specific Details:

- **By Road (ADR/RID):** Not regulated; transport in covered, sealed containers to prevent moisture absorption.
- **By Air (IATA):** Not classified as dangerous goods; ensure leak-proof packaging.
- **By Sea (IMDG):** Non-dangerous; ensure protection from water contact and direct sunlight.
- **By Rail:** Non-regulated; standard packaging sufficient.

Recommended Packaging:

HDPE drums, food-grade plastic containers, or laminated bags with inner liners.

Storage During Transit: Keep dry and well-ventilated; avoid high humidity and heat.

15. Regulatory Information

- **India (FSSAI):** Approved as a food additive.
 - **EU (E420):** Permitted sweetener and humectant.
 - **USA (FDA):** GRAS (Generally Recognized as Safe).
 - **WHMIS / OSHA:** Not controlled product.
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16. Other Information**Disclaimer:**

The information provided in this MSDS is based on data believed to be accurate as of the revision date. However, no warranty is expressed or implied. Users should ensure suitability and compliance for their specific application.

- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.