

Material Safety Data Sheet (MSDS)

Product Name: Sucrose IP/BP Grade 40-80#

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Supplier:

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1. Identification of the Substance and Company

Product Name: Sucrose IP/BP Grade (40–80#)

Chemical Name: Sucrose

Synonyms: Pharmaceutical Sugar, Refined Cane Sugar, Saccharose

CAS Number: 57-50-1

Molecular Formula: $C_{12}H_{22}O_{11}$

Molecular Weight: 342.30 g/mol

Grade: Indian Pharmacopoeia (IP) / British Pharmacopoeia (BP)

Mesh Size: 40–80#

Recommended Use:

Pharmaceutical excipient, tablet and capsule formulations, syrups, oral preparations, nutraceuticals, food products, and confectionery.

2. Hazard Identification

GHS Classification: The product is not classified as hazardous according to the Globally Harmonized System (GHS).

Potential Health Effects:

Inhalation: Dust may cause temporary irritation of the nose, throat, and respiratory tract.

Skin Contact: Prolonged contact may cause slight skin dryness or irritation.

Eye Contact: Dust particles may cause temporary irritation, redness, and watering.

Ingestion: Non-toxic under normal conditions of use. Excessive consumption may cause gastrointestinal discomfort.

Environmental Hazards: No significant environmental hazards are known.

Precautionary Statements

- Avoid excessive dust formation.
- Avoid breathing dust.
- Maintain good housekeeping to reduce dust accumulation.
- Wash hands after handling.

3. Composition / Information on Ingredients

Chemical Name: Sucrose

Common Name: Pharmaceutical Sugar

CAS Number: 57-50-1

Molecular Formula: C₁₂H₂₂O₁₁

Purity: Not less than 99.5% (as per IP/BP specifications)

Grade: Indian Pharmacopoeia / British Pharmacopoeia

The product consists of highly purified crystalline sucrose manufactured in accordance with applicable IP/BP quality standards. Trace impurities, if present, remain within pharmacopoeial limits.

4. First Aid Measures

Inhalation: Move the affected person to fresh air. Seek medical attention if irritation persists.

Skin Contact: Wash skin thoroughly with soap and water.

Eye Contact: Immediately flush eyes with clean water for at least 15 minutes. Seek medical advice if irritation continues.

Ingestion: Rinse mouth with water. Product is generally considered safe under intended use. Seek medical advice if excessive quantities are consumed.

Most Important Symptoms

- Temporary eye irritation
- Mild respiratory irritation from dust
- Mild gastrointestinal discomfort following excessive ingestion

5. Fire Fighting Measures

Suitable Extinguishing Media: Water spray, Carbon dioxide (CO₂), Dry chemical powder, Foam.

Specific Hazards: Sucrose is combustible. Fine dust dispersed in air may form explosive dust-air mixtures.

Hazardous Combustion Products: Carbon monoxide and carbon dioxide.

Protective Equipment: Wear self-contained breathing apparatus and protective clothing.

6. Accidental Release Measures

Personal Precautions

- Avoid dust formation.
- Eliminate ignition sources where dust accumulation exists.
- Wear suitable protective equipment.

Environmental Precautions: Prevent large quantities from entering drains or waterways.

Cleanup Methods: Sweep or vacuum using equipment suitable for combustible dust. Avoid creating airborne dust.

7. Handling and Storage

Handling

- Avoid generating excessive dust.
- Keep away from ignition sources.
- Follow good manufacturing and hygiene practices.
- Use appropriate dust control measures.

Storage

Store in tightly closed containers in a cool, dry, clean, and well-ventilated place.

Protect from moisture, direct sunlight, excessive heat, and contamination.

8. Exposure Controls / Personal Protection

Engineering Controls: Provide adequate ventilation and dust extraction systems where dust is generated.

Personal Protective Equipment

- **Respiratory Protection:** Dust mask where airborne dust is present.
- **Eye Protection:** Safety glasses or goggles.
- **Hand Protection:** Protective gloves.
- **Skin Protection:** Suitable protective clothing.

9. Physical and Chemical Properties

Appearance: White crystalline granules or powder

Odor: Odorless

Taste: Sweet

Physical State: Solid

pH (10% Solution): Approximately 5.0–8.0

Melting Point: Approximately 186°C (with decomposition)

Boiling Point: Not applicable

Bulk Density: Varies according to particle size

Specific Gravity: Approximately 1.59

Solubility: Freely soluble in water; slightly soluble in ethanol (95%)

Flash Point: Not applicable

Auto-Ignition Temperature: Approximately 350°C

Explosive Properties: Dust may form explosive mixtures with air

Oxidizing Properties: None

Vapor Pressure: Not applicable

Vapor Density: Not applicable

10. Stability and Reactivity

Reactivity: Stable under recommended storage conditions.

Chemical Stability: Stable under normal handling and storage conditions.

Conditions to Avoid: Moisture, Excessive heat, Open flames, Dust accumulation.

Incompatible Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, and irritating organic vapors during combustion.

11. Toxicological Information

Acute Toxicity: Low toxicity.

Skin Irritation: May cause mild mechanical irritation.

Eye Irritation: Dust may cause temporary irritation.

Respiratory Effects: Dust may irritate the respiratory tract.

Carcinogenicity: Not classified as carcinogenic.

Mutagenicity: Not known to be mutagenic.

Reproductive Toxicity: No known adverse reproductive effects.

12. Ecological Information

Ecotoxicity: Not expected to be harmful to aquatic organisms.

Persistence and Degradability: Readily biodegradable.

Bioaccumulative Potential: Not expected to bioaccumulate.

Mobility: Highly soluble in water.

13. Disposal Considerations

Dispose of unused product and packaging in accordance with applicable local, regional, and national regulations.

Avoid unnecessary release into drains or surface waters.

14. Transport Information

Sucrose IP/BP Grade (40–80#) is not classified as hazardous for transportation under international, national, or regional transport regulations. The product does not present significant health, environmental, or physical hazards during transportation when packaged and handled correctly. However, because sucrose dust can create combustible dust clouds under certain conditions, care should be taken to minimize dust generation during loading, unloading, and handling.

UN Number: Not regulated.

UN Proper Shipping Name: Not regulated.

Transport Hazard Class: Not regulated.

Packing Group: Not regulated.

Environmental Hazard: Not classified as environmentally hazardous.

Marine Pollutant: No.

Road Transport (ADR/RID): Not classified as dangerous goods for road or rail transport. Transport in sealed moisture-resistant bags, fiber drums, or HDPE containers. Protect packaging from tearing, moisture, contamination, and excessive heat.

Sea Transport (IMDG): Not regulated as dangerous goods under the International Maritime Dangerous Goods (IMDG) Code. The product is not considered a marine pollutant. Store containers in dry conditions and protect from water ingress throughout shipment.

Air Transport (IATA): Not regulated as dangerous goods by the International Air Transport Association (IATA). Standard commercial packaging is acceptable. Containers should remain tightly sealed to prevent contamination and dust release.

Special Transport Precautions:

- Keep containers tightly sealed.
- Protect from rain, excessive humidity, and direct sunlight.
- Prevent physical damage during transportation.
- Avoid excessive dust generation during loading and unloading.
- Keep away from ignition sources where large quantities of dust may accumulate.
- Transport in clean, dry vehicles free from contaminants.
- Maintain good housekeeping practices to minimize combustible dust hazards.

Transport in Bulk According to MARPOL Annex II and IBC Code: Not applicable.

Emergency Transport Information: In case of accidental spillage during transportation, avoid creating dust clouds. Sweep or vacuum the material using appropriate equipment and transfer it into suitable containers for reuse or disposal. Keep ignition sources away from dust accumulations. Wash contaminated areas with water after material removal. Personnel involved in cleanup should wear suitable personal protective equipment.

15. Regulatory Information

- Manufactured to comply with applicable Indian Pharmacopoeia (IP) and British Pharmacopoeia (BP) requirements where specified.
 - Not classified as hazardous under the Globally Harmonized System (GHS).
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16. Other Information

The information contained in this Material Safety Data Sheet is based on current scientific knowledge and is intended to provide guidance for the safe handling, storage, transportation, and disposal of the product. It should not be interpreted as a guarantee of product properties or suitability for a particular 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.