

Material Safety Data Sheet (MSDS)

Product Name: Sucrose IP/BP Grade (20-80#)

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Supplier:

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1. Product Identification

- **Chemical Name:** Sucrose
- **Synonyms:** Table sugar, Saccharose
- **CAS Number:** 57-50-1
- **Chemical Formula:** $C_{12}H_{22}O_{11}$
- **Recommended Use:** Pharmaceutical and IP grade applications

2. Composition / Information on Ingredients

- **Constituent:** Sucrose
- **Purity:** $\geq 99.5\%$
- **Impurities:** Trace amounts of moisture and ash

3. Hazards Identification

- **GHS Classification:** Not classified as hazardous
 - **Potential Hazards:**
 - Non-toxic, non-irritant in normal handling
 - May cause slips if spilled due to crystalline powder
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4. First Aid Measures

- **Inhalation:** Move to fresh air; no specific treatment needed
 - **Skin Contact:** Wash with water; no adverse effects expected
 - **Eye Contact:** Rinse with water for several minutes
 - **Ingestion:** Generally safe; excessive intake may cause gastrointestinal discomfort
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5. Fire-Fighting Measures

- **Extinguishing Media:** Water, foam, dry chemical, CO₂
 - **Special Hazards:** Combustible dust under extreme conditions
 - **Protective Equipment:** Firefighters should wear standard protective clothing
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6. Accidental Release Measures

- **Personal Precautions:** Avoid slipping; use gloves if large quantities handled
 - **Environmental Precautions:** Sweep or vacuum; avoid discharge to waterways
 - **Cleanup Methods:** Collect and dispose according to local regulations
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7. Handling and Storage

- **Handling:** Avoid creating dust; standard hygiene practices
 - **Storage:** Store in a cool, dry, well-ventilated area away from moisture and contaminants
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8. Exposure Controls / Personal Protection

- **Occupational Exposure Limit:** Not established

- **Engineering Controls:** Standard ventilation
 - **Personal Protective Equipment:**
 - Gloves: Optional for prolonged handling
 - Eye protection: Recommended if dust generation is high
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9. Physical and Chemical Properties

- **Appearance:** White crystalline powder
 - **Odor:** Odorless
 - **Melting Point:** 186 °C (decomposes)
 - **Solubility:** Soluble in water, slightly soluble in alcohol
 - **pH:** Neutral (approx. 7)
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10. Stability and Reactivity

- **Stability:** Stable under recommended storage conditions
 - **Conditions to Avoid:** Excessive heat, moisture
 - **Incompatible Materials:** Strong oxidizers
 - **Hazardous Decomposition Products:** Carbon oxides if burned
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11. Toxicological Information

- **Acute Toxicity:** Low; oral LD₅₀ in rats >15 g/kg
 - **Skin / Eye Irritation:** Non-irritant
 - **Chronic Effects:** Excessive consumption may lead to dental caries or metabolic issues
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12. Ecological Information

- **Environmental Impact:** Generally safe; biodegradable
- **Persistence:** Non-persistent
- **Mobility:** Highly soluble in water; minimal soil adsorption

13. Disposal Considerations

- Dispose according to local regulations
- Avoid large quantities into waterways
- Can be incinerated or landfilled safely

14. Transport Information (Detailed)

- **UN Number:** Not applicable (not classified as dangerous)
- **UN Proper Shipping Name:** Sucrose, non-hazardous
- **Transport Hazard Class:** Not applicable
- **Packing Group:** Not applicable
- **Transport Mode Guidance:**
 - **Road / Rail:** No special requirements; secure containers to prevent spillage
 - **Sea Freight:** Store in dry, ventilated area; protect from moisture
 - **Air Freight:** Can be transported as general cargo
- **Precautions:**
 - Avoid exposure to moisture during transport to prevent caking
 - Avoid rough handling to prevent dust generation
 - Ensure proper labeling as per local regulations
- **Emergency Measures in Transit:**
 - In case of spillage: sweep up, avoid inhalation of dust, and dispose of properly
 - In case of fire: treat as combustible dust; use appropriate extinguishing media

15. Regulatory Information

- **Compliance:** IP (Indian Pharmacopoeia) grade
- **Labeling Requirements:** Follow local pharmaceutical regulatory standards
- **Other Regulations:** Not classified as hazardous under GHS or OSHA

16. Other Information

- **Disclaimer:** Information is based on current knowledge and intended for safety guidance. Users must determine suitability for their specific applications.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.