

Material Safety Data Sheet (MSDS)

Product Name: Sucrose Powder SS-30

MSDS Generate Date: 20-05-2017

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Supplier:

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1. Identification of the Substance and Company

Product Name: Sucrose Powder SS-30

Chemical Name: Sucrose

Synonyms: Powdered Sucrose, Powdered Sugar, Pharmaceutical Sugar, Cane Sugar

CAS Number: 57-50-1

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

Molecular Weight: 342.30 g/mol

Recommended Use:

Pharmaceutical excipient, food ingredient, nutraceutical formulations, tablet and syrup manufacturing, confectionery products, and dietary applications.

2. Hazard Identification

GHS Classification: Sucrose Powder SS-30 is **not classified as hazardous** under the Globally Harmonized System (GHS).

Potential Health Effects

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

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

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

Ingestion: Low toxicity under normal conditions of use. Excessive consumption may cause gastrointestinal discomfort.

Physical Hazards: Fine sugar dust may form combustible dust-air mixtures under certain conditions.

Environmental Hazards: No significant environmental hazards are expected.

Precautionary Statements:

- Avoid generating excessive dust.
- Avoid breathing dust.
- Keep away from ignition sources where dust accumulation may occur.
- Maintain good housekeeping.
- Wash hands after handling.

3. Composition / Information on Ingredients

Chemical Name: Sucrose

CAS Number: 57-50-1

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

Chemical Family: Carbohydrate (Disaccharide)

Purity: Typically 99.5% minimum (depending on specification)

Sucrose Powder SS-30 consists primarily of highly purified sucrose produced from cane sugar or beet sugar. Trace moisture and naturally occurring impurities are maintained within applicable pharmaceutical or food-grade specifications.

4. First Aid Measures

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

Skin Contact: Wash affected skin thoroughly with soap and water.

Eye Contact: Immediately flush eyes with plenty of clean water for at least 15 minutes. Remove contact lenses if present. Seek medical attention if irritation continues.

Ingestion: Rinse mouth with water. Drink water if discomfort occurs. Seek medical advice if large quantities have been consumed and symptoms develop.

Most Important Symptoms:

- Mild eye irritation
- Mild respiratory irritation due to dust
- Temporary gastrointestinal discomfort

5. Fire Fighting Measures

Suitable Extinguishing Media:

- Water spray
- Dry chemical powder
- Carbon dioxide (CO₂)
- Alcohol-resistant foam

Unsuitable Extinguishing Media: Avoid high-pressure water jets that may disperse combustible dust.

Fire Hazards: Sucrose is combustible. Fine dust suspended in air may present a dust explosion hazard in enclosed spaces.

Hazardous Combustion Products: Carbon monoxide, carbon dioxide, and irritating smoke.

Protective Equipment: Firefighters should wear self-contained breathing apparatus (SCBA) and full protective clothing.

6. Accidental Release Measures

Personal Precautions:

- Avoid creating airborne dust.
- Eliminate ignition sources.
- Ensure adequate ventilation.
- Wear appropriate personal protective equipment.

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

Cleanup Methods: Sweep or vacuum carefully using explosion-proof equipment where necessary. Place material into suitable containers for reuse or disposal.

7. Handling and Storage

Handling

- Avoid excessive dust generation.

- Avoid breathing dust.
- Keep away from heat, sparks, and open flames.
- Follow good manufacturing and hygiene practices.

Storage

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

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

8. Exposure Controls / Personal Protection

- **Engineering Controls:** Provide adequate ventilation and dust collection systems where dust is generated.

Personal Protective Equipment

- **Respiratory Protection:** Dust mask or approved particulate respirator where dust concentrations are excessive.
- **Eye Protection:** Safety glasses or chemical safety goggles.
- **Hand Protection:** Protective gloves.
- **Skin Protection:** Suitable protective clothing where required.

9. Physical and Chemical Properties

Appearance: White crystalline fine powder

Odor: Odorless

Taste: Sweet

Physical State: Solid powder

pH (10% Solution): Approximately 6.0–7.5

Melting Point: Approximately 186°C (decomposes)

Boiling Point: Not applicable

Bulk Density: Varies according to particle size

Specific Gravity: Approximately 1.59

Solubility: Freely soluble in water; practically insoluble in ethanol

Flash Point: Not applicable

Auto-Ignition Temperature: Approximately 350°C (dust cloud)

Explosive Properties: Fine 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: Excessive heat, Moisture, Open flames, Dust accumulation.

Incompatible Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, and other irritating combustion products.

11. Toxicological Information

Acute Toxicity: Low acute toxicity.

Skin Irritation: May cause mild irritation after prolonged contact.

Eye Irritation: Dust may cause temporary mechanical irritation.

Respiratory Effects: Dust may irritate the respiratory tract.

Carcinogenicity: Not classified as carcinogenic.

Mutagenicity: No known mutagenic effects.

Reproductive Toxicity: No known reproductive hazards.

12. Ecological Information

Ecotoxicity: No significant environmental toxicity is expected.

Persistence and Degradability: Readily biodegradable.

Bioaccumulative Potential: Not expected to bioaccumulate.

Mobility: Highly soluble in water.

13. Disposal Considerations

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

Avoid unnecessary release into drains or natural water bodies.

14. Transport Information

Sucrose Powder SS-30 is not classified as dangerous goods under ADR/RID, IMDG, IATA, or other international transportation regulations. The product presents no significant transportation hazards when packaged and handled properly. However, because it is supplied as a fine powder, precautions should be taken to prevent dust formation, moisture absorption, contamination, and package damage during transport. Fine sugar dust may present a combustible dust hazard if dispersed in confined spaces.

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): The product is not regulated as dangerous goods for road or rail transport. Transport in clean, dry, tightly sealed bags, fiber drums, or HDPE containers. Protect packages from rain, excessive humidity, contamination, and mechanical damage during loading, unloading, and transit.

Sea Transport (IMDG): Sucrose Powder SS-30 is not regulated under the International Maritime Dangerous Goods (IMDG) Code. It is not classified as a marine pollutant. Containers should remain tightly sealed and protected from moisture, seawater, and contamination throughout shipment.

Air Transport (IATA): The product is not regulated as dangerous goods under International Air Transport Association (IATA) regulations. Standard commercial packaging is suitable provided containers remain securely sealed and protected from physical damage and moisture.

Special Transport Precautions: Transport only in clean, dry, tightly sealed containers.

- Protect from moisture, rain, excessive humidity, and direct sunlight.
- Prevent package damage during loading and unloading.
- Minimize dust generation throughout handling.
- Keep away from ignition sources where dust accumulation is possible.
- Secure cargo properly to prevent shifting during transportation.
- Follow good housekeeping practices to minimize dust accumulation.

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

Emergency Transport Information: If accidental spillage occurs during transportation, isolate the affected area if necessary and eliminate potential ignition sources. Avoid generating airborne dust. Sweep or vacuum the spilled material using suitable equipment and place it into appropriate containers for recovery or disposal. Prevent material from entering drains and waterways. Personnel involved in cleanup should wear appropriate personal protective equipment, including respiratory protection where dust concentrations are excessive.

15. Regulatory Information

- Sucrose Powder SS-30 should be handled in accordance with applicable occupational safety, food, pharmaceutical, environmental, and chemical handling regulations.
- The product is not classified as hazardous under the Globally Harmonized System (GHS).

16. Other Information

The information contained in this Material Safety Data Sheet is based on current scientific knowledge and industrial experience. It is intended to provide guidance for the safe handling, storage, transportation, and disposal of the product. It does not constitute a warranty of product characteristics or suitability for any particular application. Users are responsible for complying with all applicable regulations governing the use of this product.

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