

Material Safety Data Sheet (MSDS)

Product Name: Dextrose Anhydrous IP 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:** Dextrose Anhydrous
- **Synonyms:** D-Glucose Anhydrous, Corn Sugar Anhydrous
- **Grade:** IP (Indian Pharmacopoeia)
- **CAS Number:** 50-99-7
- **Molecular Formula:** $C_6H_{12}O_6$
- **Molecular Weight:** 180.16 g/mol
- **Recommended Use:** Pharmaceutical formulations, nutritional supplements, food additive, laboratory reagent.

2. Hazards Identification

- **Classification (GHS):** Not classified as hazardous.
- **Hazard Statement:** Not hazardous under normal conditions of use.

- **Precautionary Statement:** Avoid dust formation; excessive inhalation may cause minor respiratory irritation.
 - **Potential Health Effects:**
 - Eyes: May cause mild irritation.
 - Skin: No known hazard.
 - Inhalation: Dust may cause mild irritation.
 - Ingestion: Safe in regulated food/pharma uses; excessive intake may affect blood sugar.
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3. Composition / Information on Ingredients

- **Substance Name:** Dextrose Anhydrous
 - **Content:** 100%
 - **CAS Number:** 50-99-7
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4. First Aid Measures

- **Inhalation:** Move to fresh air. Seek medical attention if irritation persists.
 - **Skin Contact:** Wash with water. No adverse effects expected.
 - **Eye Contact:** Rinse thoroughly with water. If irritation persists, seek medical advice.
 - **Ingestion:** Generally regarded as safe. In case of excessive ingestion, seek medical advice.
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5. Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, dry chemical, foam, carbon dioxide.
 - **Special Hazards:** Dust clouds may form explosive mixtures with air.
 - **Protective Equipment:** Firefighters should wear protective clothing and self-contained breathing apparatus.
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6. Accidental Release Measures

- **Personal Precautions:** Avoid dust inhalation. Use personal protective equipment.

- **Environmental Precautions:** Prevent large quantities from entering drains.
- **Methods for Cleaning:** Sweep up and dispose of in suitable containers. Wash area with water.

7. Handling and Storage

- **Handling:** Avoid generating dust. Handle in accordance with good industrial hygiene practices.
- **Storage:** Store in a cool, dry, and well-ventilated place. Keep container tightly closed. Protect from moisture.

8. Exposure Controls / Personal Protection

- **Exposure Limits:** Not established.
- **Engineering Controls:** Adequate ventilation.
- **Personal Protection:**
 - Respiratory: Dust mask if dust is generated.
 - Hands: Protective gloves not required under normal use.
 - Eyes: Safety glasses recommended.

9. Physical and Chemical Properties

- **Appearance:** White crystalline powder
- **Odor:** Odorless
- **Taste:** Sweet
- **Solubility:** Freely soluble in water
- **Melting Point:** ~146°C
- **Boiling Point:** Not applicable
- **pH (10% solution):** 4.0–6.5
- **Bulk Density:** 0.7–0.9 g/cm³

10. Stability and Reactivity

- **Stability:** Stable under normal conditions.
- **Conditions to Avoid:** Excessive heat, humidity.
- **Incompatible Materials:** Strong oxidizing agents.
- **Hazardous Decomposition Products:** Carbon oxides under fire conditions.

11. Toxicological Information

- **Acute Toxicity:** Non-toxic.
- **Oral LD50 (rat):** > 25,800 mg/kg (practically non-toxic).
- **Skin Irritation:** Not irritating.
- **Eye Irritation:** Mild mechanical irritation possible.
- **Chronic Effects:** None reported under normal conditions of use.

12. Ecological Information

- **Ecotoxicity:** Not expected to be hazardous to the environment.
- **Biodegradability:** Readily biodegradable.
- **Bioaccumulation:** Does not bioaccumulate.

13. Disposal Considerations

- Dispose of in accordance with local regulations.
- Non-hazardous waste; can be disposed of with normal solid waste.

14. Transport Information (Detailed)

- **UN Number:** Not applicable (Non-hazardous).
- **UN Proper Shipping Name:** Not regulated.
- **Transport Hazard Class(es):** Not classified as dangerous goods.
- **Packing Group:** Not applicable.
- **Environmental Hazards:** None known.

- **Special Precautions for User:**
 - Ensure packaging is secure and free from leaks.
 - Avoid creating dust during handling and loading/unloading.
 - Protect from moisture during transportation.
 - Transport in accordance with good industrial hygiene practices.
- **Regulatory Transport Status:**
 - ADR/RID (Road/Rail): Not regulated.
 - IMDG (Sea): Not regulated.
 - IATA (Air): Not regulated.
- **Additional Guidance:** Dextrose Anhydrous IP Grade is considered safe for transport. However, bulk quantities should be transported in dry, sealed containers to prevent clumping or contamination. Dust control is recommended in case of pneumatic loading/unloading.

15. Regulatory Information

- **Regulatory Status:** Listed in food/pharma standards (IP, USP, BP, FCC).
- **Safety Assessment:** Generally Recognized as Safe (GRAS) by FDA.

16. Other Information

- **Disclaimer:** Information given is believed to be accurate and reliable, but no warranty is expressed or implied. User is responsible for ensuring safe conditions of use.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.