

MATERIAL SAFETY DATA SHEET

Product Name: D-Mannitol

CAS No.: 69-65-8

Version: 0

1. Identification

Product Code : 90157, 90400
Company Name : Advent Chembio Private Limited
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WEBSITE : www.adventchembio.com
Company Phone Number : 022-27690837

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent
D-MANNITOL	69-65-8	99-100 %

3. Hazards Identification**Hazard classification****Labels elements**

Hazard symbol : No symbol
Signal word : No signal word.
Hazard statement : Not Applicable.
Precautionary statement : Not Applicable.
Other hazards which do not result in GHS classification : None.

4. First Aid Measures

General information : Get medical advice/attention if you feel unwell. If medical advice is needed, have product container or label at hand. Show this safety data sheet to the doctor in attendance.

Ingestion : Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.

Inhalation : Move to fresh air. Get medical attention if symptoms occur.

Skin contact : Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing. Wash contaminated clothing before reuse.

Eye contact : Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention if symptoms occur.

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Most important symptoms/effects, acute and delayed : May cause irritation to skin, eyes, and respiratory tract.

Indication of immediate medical attention and special treatment needed : Treat symptomatically. Symptoms may be delayed.

5. Fire fighting measures

General fire hazards : The product is non-combustible.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray, dry powder or carbon dioxide.

Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : Dust may form explosive mixture with air.

Special protective equipment and precautions for firefighters

Special fire fighting procedures : Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool. Cool containers exposed to flames with water until well after the fire is out.

Special protective equipment for fire-fighters : Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures : Keep unauthorized personnel away. Keep upwind. Ventilate closed spaces before entering them. Avoid inhalation of dust. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Methods and material for containment and cleaning up : Sweep up and place in a clearly labeled container for chemical waste. Clean surface thoroughly to remove residual contamination.

Notification Procedures : Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved.

Environmental precautions : Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

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7. Handling and Storage

- Precautions for safe handling** : Use personal protective equipment as required. Avoid contact with eyes, skin, and clothing. Avoid inhalation of dust. Wash thoroughly after handling.
- Conditions for safe storage, including any incompatibilities** : Keep containers tightly closed. Store in cool, dry place. Store in a well-ventilated place.

8. Exposure Controls Personal Protection**Control parameters**

Occupational exposure limits : None of the components have assigned exposure limits

Appropriate engineering controls : No data available.

Individual protection measures, such as personal protective equipment

General information : Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Eye/face protection : Use tight fitting goggles if dust is generated.

Hand protection : Wear protective gloves.

Other : Wear suitable protective clothing.

Respiratory protection : In case of inadequate ventilation use suitable respirator.

Hygiene measures : Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Provide eyewash station and safety shower.

9. Physical and Chemical Properties

Appearance : White Solid Powder.

Odor : Odorless

pH : No data available.

Melting point/freezing point : 166 °C

Initial boiling point and boiling range : 290 °C (0.47 kPa)

Flash Point : Not applicable

Vapor pressure : No data available

Vapor density : No data available

Relative density : 1.52 (20 °C)

Solubility in water : Soluble

Solubility (other) : No data available.

Formula : C₆H₁₄O₆

Molecular Weight : 182.17 g/mol

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10. Stability and Reactivity

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	Material is stable under normal conditions.
Possibility of hazardous reactions	:	Hazardous polymerization does not occur.
Conditions to avoid	:	Contact with incompatible materials.
Incompatible materials	:	Strong oxidizing agents.
Hazardous decomposition products	:	Thermal decomposition may release oxides of carbon.

11. Toxicological Information

Information on likely routes of exposure

- Ingestion** : May cause irritation of the gastrointestinal tract.
- Inhalation** : Dust may irritate respiratory system.
- Skin contact** : May cause irritation.
- Eye contact** : May irritate eyes.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

- Oral Product** : LD 50 (Rat): 13,500 mg/kg
- Dermal Product** : No data available
- Inhalation Product** : No data available
- Repeated dose toxicity Product** : No data available.
- Skin corrosion/irritation Product** : May cause skin irritation.
- Serious eye damage/eye irritation Product** : May irritate eyes.
- Respiratory or skin sensitization Product** : Not a skin sensitizer.
- Carcinogenicity Product** : This substance has no evidence of carcinogenic properties.
- IARC Monographs on the Evaluation of Carcinogenic Risks to Humans DIOXANE** : No carcinogenic components identified.
- US. National Toxicology Program (NTP) Report on Carcinogens DIOXANE** : No carcinogenic components identified.
- US. OSHA Specifically Regulated** : No carcinogenic components identified.

MATERIAL SAFETY DATA SHEET**Product Name:** D-Mannitol**CAS No.:** 69-65-8**Version:** 0**Substances (29 CFR 1910.1001-1050****Germ cell mutagenicity****In vitro Product** : No mutagenic components identified.**In vivo Product** : No mutagenic components identified.**Reproductive toxicity Product** : No components toxic to reproduction.**Specific target organ toxicity - single exposure Product** : No data available.**Specific target organ toxicity - repeated exposure Product** : No data available.**Aspiration hazard Product** : Not classified.**Other effects** : None known.**12. Ecological Information****Ecotoxicity****Acute hazards to the aquatic environment :****Fish Product** : No data available.**Aquatic invertebrates Product** : No data available**Chronic hazards to the aquatic environment :****Fish Product** : No data available.**Aquatic invertebrates Product** : No data available.**Toxicity to Aquatic Plants Product:** : No data available.**Persistence and degradability****Biodegradation Product** : Expected to be readily biodegradable.**BOD/COD ratio Product** : No data available.**Bioaccumulative potential****Bioconcentration factor (BCF) Product** : No data available on bioaccumulation.**Product****Partition coefficient n-octanol / water (log Kow) Product** : Log Kow: -3.10**Mobility in soil** : The product is water soluble and may spread in water systems.**Other adverse effects** : The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.**13. Disposal consideration****Disposal instructions** : Discharge, treatment, or disposal may be subject to national, state, or local laws.**Contaminated packaging** : Since emptied containers retain product residue, follow label warnings even after container is emptied.

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14. Transport Information

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
DOT			Not regulated.		
IMDG			Not regulated.		
IATA			Not regulated.		

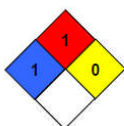
15. Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture
No Data Available.

16. Other Information

NFPA Hazard ID



■ Flammability
■ Health
■ Reactivity
 Special hazard.

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

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