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Material Safety Data Sheet

D-Mannitol MSDS

Section 1: Chemical Product and Company Identification

Product Name: D-Mannitol

Catalog Codes: 41300012-1, 41300012-2

CAS#: 69-65-8

RTECS: OP2060000

TSCA: TSCA 8(b) inventory : D - Mannitol

CI#: Not applicable.

Synonym: 1,2,3,4,5,6-Hexanehexol; Manna sugar; Mannite; DMannitol;

Osmitol

Chemical Name: D(-)-Mannitol

Chemical Formula: C6H14O6

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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	%By Weight
D(-)-Mannitol	69-65-8	-----

Toxicological Data on Ingredients:

LD50 (Oral,Rat): 13500 mg/kg

LD50 (Oral,Mouse): 22000 mg/kg

Section 3: Hazards Identification

Potential Acute Health Effects: Irritating to eyes, respiratory system and skin.

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Not available.

MUTAGENIC EFFECTS: Not available.

TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available.

Section 4: First Aid Measures

Eye Contact: In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Skin Contact: In case of contact, immediately wash skin with soap and copious amounts of water.

Serious Skin Contact: Not available.

Inhalation: If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

Serious Inhalation: Not available.

Ingestion: If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: May be combustible at high temperature.

Auto-Ignition Temperature: Not available.

Flash Points: Not available.

Flammable Limits: Not available.

Product of Combustion: Carbon monoxide, Carbon dioxide.

Fire Hazards in Presence of Various Substances: Not available.

Explosion Hazards in Presence of Various Substances:

Not available.

Fire Fighting Media and Instructions:

SMALL FIRE: Dry chemical powder.

LARGE FIRE: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures

Small Spill: Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Large Spill: Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Section 7: Handling and Storage

Precautions: Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

Storage: Keep tightly closed.

Section 8: Exposure Controls/Personal Protection

Engineering Controls: Safety shower and eye bath. Mechanical exhaust required.

Personal Protection: Respiratory: Wear dust mask.

Hand: Protective gloves.

Eyes : Safety glasses.

Eye: Chemical safety goggles.

Personal Protection in Case of a Large Spill: Splash goggles. Lab coat. Gloves. Dust respirator.

Exposure Limits: Not available.

Section 9: Physical and Chemical Properties

Physical State and Appearance: Solid (Powder)

Odor: Not available.

Taste: Not available.

Molecular Weight: 182.17 g/mole

Color: White

pH(1% soln/water): 5 - 6.5

Boiling Point: Not available.

Melting Point: 165°C

Critical Temperature: Not available.

Specific Gravity: Not available.

Vapour Pressure: Not available.

Vapor Density: Not available.

Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff: Not available.

Ionicity (in Water): Not available.

Dispersion Properties: Not available.

Solubility: Not available.

Section 10: Stability and Reactivity Data

Stability: Stable.

Instability Temperature: Not available.

Conditions of Instability: Strong oxidizing agents.

Incompatibility with various substances: Not available.

Corrosivity: Not available.

Special Remarks on Reactivity: Not available.

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur

Section 11: Toxicological Information

Routes of Entry: Skin Contact, Eye Contact, Inhalation, Ingestion

Toxicity to Animals:

LD50 (Oral,Rat): 13500 mg/kg

LD50 (Oral,Mouse): 22000 mg/kg

Chronic Effects on Humans: Not available.

Other Toxic Effects on Humans: Skin Contact: May cause skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: May cause eye irritation.

Inhalation: May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

Ingestion: May be harmful if swallowed.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans: Not available.

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Product of Biodegradation: Not available.

Toxicity of the Products of Biodegradation: Not available.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal: Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

Section 14: Transport Information

DOT Classification: Not a DOT controlled material.

Identification: Not available.

Special Provisions for Transport: Not available.

Section 15: Other Regulatory Information

Federal and State Regulations: TSCA 8(b) inventory : D - Mannitol

Other Regulations: Not available.

Other Classifications:

WHMIS(Canada): Not available.

DSCL(EEC): Not available.

HMIS(U.S.A):

Health Hazard: 0

Fire Hazard: 0

Reactivity: 0

Personal Protection:

National Fire Protection Association (U.S.A):

Health: 0

Flammability: 0

Reactivity: 0

Specific hazard:

Protective Equipment: Gloves. Lab coat. Dust respirator. Safety goggles.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

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