Material Safety Data Sheet Mannitol

Section 1: Chemical Product and Company Identification		
Product Name: Mannitol	Company Information:	
Customs Tariff No: 29054300	Chemtrade International	
Synonym Name: D-Manninol, Isotol	Rm. 201, Unit 3, Building 8, Shijia Garden, No. 93,	
Chemical Formula:	Xiangjiang Road, Qingdao Development Zone, Qingdao, Shandong, China 266555	
	Tel: 0086-532-86893005 Fax: 0086-532-86893005	

Section 2: Composition and Information on Ingredients					
Composition:					
Name	CAS No.	EINECS No.	%by weight		
D-Mannitol	69-65-8	200-711-8	100		

Section 3: Hazards Identification

EMERGENCY OVERVIEW

Appearance: white solid.

Caution! May cause mechanical eye and skin irritation. May cause respiratory and digestive tract irritation. This is expected to be a low hazard for usual industrial handling.

Target Organs: No data found.

Potential Health Effects

Eye: May cause eye irritation.

Skin: May cause skin irritation. Low hazard for usual industrial handling.

Ingestion: Ingestion of large amounts may cause gastrointestinal irritation. Expected to be a low ingestion hazard. **Inhalation:** Low hazard for usual industrial handling. Inhalation of dust may cause respiratory tract irritation. **Chronic:** No information found.

Section 4: First Aid Measures

Eyes: Get medical aid. Immediately flush eyes with plenty of water for at l east 15 minutes.

Skin: Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.

Ingestion: Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician: Treat symptomatically and supportively.

Section 5: Fire and Explosion Data

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Dusts at sufficient concentrations can form explosive mixtures with air. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. **Extinguishing Media:** Use agent most appropriate to extinguish fire. Use water spray, dry chemical, carbon dioxide, or appropriate foam. **Flash Point:** 149 deg C (300.20 deg F)

Autoignition Temperature: 460 deg C (860.00 deg F) Explosion Limits, Lower:0.065 gm/L Upper: Not available. NFPA Rating: (estimated) Health: 1; Flammability: 1; Instability: 0

Section 6: Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8. **Spills/Leaks:** Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

Section 7: Handling and Storage

Handling: Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Storage: Store in a tightly closed container. Keep from contact with oxidizing materials. Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8: Exposure Controls/Personal Protection

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low. **Exposure Limits**

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
D-Mannitol	none listed	none listed	none listed

OSHA Vacated PELs: D-Mannitol: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

Section 9: Physical and Chemical Properties

Physical State: Solid Appearance: white Odor: odorless pH: Not available. Vapor Pressure: Negligible. Vapor Density: Not available. Evaporation Rate: Negligible. Viscosity: Not available. Boiling Point: 295 deg C Freezing/Melting Point:166 deg C Decomposition Temperature: Not available. Solubility: 18% in water Specific Gravity/Density:1.52 Molecular Formula:C6H14O6 Molecular Weight:182.17

Section 10: Stability and Reactivity Data

Chemical Stability: Stable at room temperature in closed containers under normal storage and handling conditions.
Conditions to Avoid: Incompatible materials, dust generation, strong oxidants.
Incompatibilities with Other Materials: Oxidizing agents.
Hazardous Decomposition Products: Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.
Hazardous Polymerization: Has not been reported.

RTECS#: CAS# 69-65-8: OP2060000 LD50/LC50: CAS# 69-65-8:

AS# 69-65-8: Oral, mouse: LD50 = 22 gm/kg; Oral, rat: LD50 = 13500 mg/kg;

Carcinogenicity:

CAS# 69-65-8: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: No information found **Teratogenicity:** No information found **Reproductive Effects:** No information found **Mutagenicity:** No information found **Neurotoxicity:** No information found **Other Studies:**

Section 12: Ecological Information

No information available.

Section 13: Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. **RCRA P-Series:** None listed.

RCRA U-Series: None listed.

Section 14: Transport Information

Not regulated as a hazardous material

Section 15: Other Regulatory Information

US FEDERAL

TSCA
CAS# 69-65-8 is listed on the TSCA inventory.
Health & Safety Reporting List
None of the chemicals are on the Health & Safety Reporting List.
Chemical Test Rules
None of the chemicals in this product are under a Chemical Test Rule.
Section 12b
None of the chemicals are listed under TSCA Section 12b.
TSCA Significant New Use Rule
None of the chemicals in this material have a SNUR under TSCA.
CERCLA Hazardous Substances and corresponding RQs
None of the chemicals in this material have an RQ.
SARA Section 302 Extremely Hazardous Substances
None of the chemicals in this product have a TPQ.
Section 313 No chemicals are reportable under Section 313.
Clean Air Act:
This material does not contain any hazardous air pollutants.
This material does not contain any Class 1 Ozone depletors.
This material does not contain any Class 2 Ozone depletors.
Clean Water Act:
None of the chemicals in this product are listed as Hazardous Substances under the CWA.
None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA. **OSHA:**

None of the chemicals in this product are considered highly hazardous by OSHA. **STATE**

CAS# 69-65-8 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives Hazard Symbols:

Not available.

Risk Phrases:

Safety Phrases:

WGK (Water Danger/Protection)

CAS# 69-65-8: 0

Canada - DSL/NDSL

CAS# 69-65-8 is listed on Canada's DSL List.

Canada - WHMIS

This product has a WHMIS classification of D2B.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian Ingredient Disclosure List

Section 16: Other Information

MSDS Creation Date: 6/16/2000 **Revision #4 Date:** 3/15/2007

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