



Material Safety Data Sheet

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Section 1 - Product and Company Identification

Product name : Mannitol
Other names : --
Product use : low calorific sweetener; nutritional supplement and tissue improver; moisturizer
Supplier's name : San Fu Chemical Co., Ltd., Shan Hua Plant
Supplier's address : 340 Hsiao Hsin Li, Shan Hua Town, Tainan Hsien, Taiwan, R.O.C.
Supplier's phone : 06-5837608 Emergency phone : 06-5837608
FAX. : 06-5839498

Section 2 - Hazards Identification

Classification :
1. Skin Corrosion/Irritation Category 3
2. Serious Eye Damage/Eye Irritation Category 3
The Most Important Hazards and effect
Label element :
■ Hazard symbol : N/A
■ Signal word : Warning
Hazard statement :
1. Cause light skin irritation
2. Cause eye irritation
Precautionary statement :
1. Avoid contacting with skin and eyes
2. Required safety goggles/mask
Others Hazard : /

Section 3 - Composition/Information On Ingredients

Pure Substance :

Chemical name : Mannitol
Synonyms : Mannitol 、 1,2,3,4,5,6-Hexanehexol 、 d-Mannitol 、 Manna sugar 、 Mannite 、 NCI-C50362 、 Osmitrol
CAS No. : 69-65-8
Ingredient contributing to the hazard(%) : 99 %

Section 4 - First Aid Measures

The First-aid Information :
■ Inhalation : Move to an air-circulated place; take care if the dyspnea is occurred. If discomfort occurs, seek medical attention immediately.
■ Skin Contact : Immediately wash contaminated area with soap and plenty of water. If irritation occurs, seek medical attention immediately.
■ Eye Contact : Immediately flush eyes with large amount of water for at least 15 minutes. If irritation occurs, seek medical attention immediately.
■ Ingestion : If swallowed, give large quantities of water. Never give anything by mouth to



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an unconscious person. Seek Medical attention immediately.
The Most Important Symptoms and Hazardous Effects : --
Protection of First-aiders : --
Notes to a Physician : --

Section 5 - Fire Fighting Measures

Extinguishing Media : Water, CO ₂ or powder
Specific Hazards when Fire-fight : When the powder disperses in the air, may has the potential of the explosion.
Specific Fire-fighting Procedure : --
Specific Protection of Firefighters : In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

Section 6 - Accidental Release Measures

Personal Precautions : Required proper personal protection equipment.
Environmental Precautions : Avoid dust production, keep good ventilation.
Methods for Cleaning up : Clean up to the proper container for recycling or managing.

Section 7 - Handling and Storage

Handling : <ol style="list-style-type: none"> 1. Avoid sunlight 2. Avoid dust production while packaging or discharging. 3. Use antistatic protective device if necessary.
Storage : <ol style="list-style-type: none"> 1. Should seal the container if not use 2. Store in a cool, dry, ventilated area (15~25°C)

Section 8 - Exposure Controls & Personal Protection

Engineering measures : Dispose with eye flusher and shower equipment. Use proper ventilation system.								
Control parameters								
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">TWA</th> <th style="width: 25%;">STEL</th> <th style="width: 25%;">Ceiling</th> <th style="width: 25%;">Biological standards</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">--</td> <td style="text-align: center;">--</td> <td style="text-align: center;">--</td> <td style="text-align: center;">--</td> </tr> </tbody> </table>	TWA	STEL	Ceiling	Biological standards	--	--	--	--
TWA	STEL	Ceiling	Biological standards					
--	--	--	--					
Personal protective equipment : <ul style="list-style-type: none"> ■ Respiratory Protection : Wear dust mask ■ Hand Protection : Wear impervious gloves ■ Eye Protection : Wear chemical safety goggles ■ Skin and Body Protection : Wear proper protective clothing 								
Hygiene measures : Forms the good habit, no drinking or eating in the working area. Wash hands thoroughly after handling.								



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Section 9 - Physical & Chemical Properties

Appearance : solid, crystallize powder or grain	Odor : odorless
Color : White	Melting Point: --
pH value : 100g/l H ₂ O (20°C)5~7	Boiling point/boiling range : 295°C @0.5KPa
Flammability: --	Flash point : > 149°C
Decomposition temp : --	Test method : Closed cup
Auto ignition temp : 460°C	Explosion properties : 6.5%(lower limitation)
Vapor pressure : --	Vapor density : --
Density : 1.52(H ₂ O=1)	Solubility : 213 g/l(25°C)
log Kow : -3.10	Evaporation Rate : --

Section 10 - Stability & Reactivity Data

Stability : Stable
Possible hazardous reactions under specific conditions : n/a
Conditions to avoid : Incompatible substances, dust, overheat.
Materials to avoid : oxidizer
Hazardous decomposition products : Thermal decomposition products may include CO, irritable and poisonous smoke, CO ₂

Section 11 - Toxicological Information

Route of exposure : inhalation, skin contact, ingestion, eyes
Symptoms : May cause irritation to the eyes and skin
Immediate Toxicity : <ol style="list-style-type: none">1. Skin : coughing, inflammation in upper respiratory tract2. Inhalation : stomachache, nausea and diarrhea: vomit, chillness, dizziness, chest pain, heart failure, pulmonary edema3. Eye : Cause inflammation and decortications4. Ingestion : LD₅₀ : 13500 mg/kg(Oral, Rat)
Specific effects : --

Section 12 - Ecological Information

Ecotoxicology : <ul style="list-style-type: none">■ LC₅₀(fish) : 0.53-3.7mg/l/96H■ EC₅₀(Aquatic Invertebrates) : --■ Bioconcentration factor (BCF) : --
Persistence and degradability : <ul style="list-style-type: none">■ Half-Life (Air) : --■ Half-Life (Water surface) : --



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■ Half-Life (Groundwater) : --
■ Half-Life (Soil) : --
Bioaccumulative potential : --
Mobility in soil : --
Other adverse effects : --

Section 13 - Disposal Considerations

Methods of disposal : Refer to publication and related law and regulation

Section 14 - MSDS Transport Information

UN classification number : --
Proper D.O.T Shipping Name : --
Hazard Class : --
Packing Group : --
Marine pollution : --
Specific precautionary transport measures and conditions : --

Section 15 - Regulatory Information

Regulations :
1. Regulations of Labor Safety and Health Installations
2. Regulations for Chemical Hazard Communication
3. Road Traffic Safety Regulations

Section 16 - Other Information

Literature references	1. MSDS database from Merck Index 2. GHS Globally Harmonized System of Classification and Labeling of Chemicals Database		
Prepared by	Supplier : San Fu Chemical Co., Ltd. Shan Hua Plant		
	Address : 340 Hsiao Hsin Li, Shan Hua Town, Tainan Hsien, Taiwan, R.O.C.		
	TEL : 06-5837608		FAX : 06-5839498
	Name : Chunfel Chang		
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Remarks	Symbols Explanations: "--" No information is available at this time. "/" Not applicable to this substance.
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