



# 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.
Supplier's address : 340 Hsiao Hsin Li, Shan-Hua District, Tainan City, Taiwan, R.O.C.
Supplier's phone : 886-6-5837608                      Emergency phone : 886-6-5837608
FAX. : 886-6-5839498

## 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 、 Osmitol
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 <sub>2</sub> 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

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

## Section 8 - Exposure Controls & Personal Protection

Engineering measures : Dispose with eye flusher and shower equipment. Use proper ventilation system.								
Control parameters								
<table border="1"> <thead> <tr> <th>TWA</th> <th>STEL</th> <th>Ceiling</th> <th>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					
--	--	--	--					
<b>Personal protective equipment :</b> <ul style="list-style-type: none"> <li>■ Respiratory Protection : Wear dust mask</li> <li>■ Hand Protection : Wear impervious gloves</li> <li>■ Eye Protection : Wear chemical safety goggles</li> <li>■ Skin and Body Protection : Wear proper protective clothing</li> </ul>								
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 <sub>2</sub> 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 <sub>2</sub> 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 <sub>2</sub>

## 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"><li>1. Skin : coughing, inflammation in upper respiratory tract</li><li>2. Inhalation : stomachache, nausea and diarrhea: vomit, chillness, dizziness, chest pain, heart failure, pulmonary edema</li><li>3. Eye : Cause inflammation and decortications</li><li>4. Ingestion : LD<sub>50</sub> : 13500 mg/kg(Oral, Rat)</li></ol>
Specific effects : --

## Section 12 - Ecological Information

Ecotoxicology : <ul style="list-style-type: none"><li>■ LC<sub>50</sub>(fish) : 0.53-3.7mg/l/96H</li><li>■ EC<sub>50</sub>(Aquatic Invertebrates) : --</li><li>■ Bioconcentration factor (BCF) : --</li></ul>
Persistence and degradability : <ul style="list-style-type: none"><li>■ Half-Life (Air) : --</li></ul>



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■ Half-Life (Water surface) : --
■ 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
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## Section 14 - SDS 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. Enforcement Rules of the Occupational Safety and Health Act
2. Regulation of Labelling and Hazard Communication of Dangerous and Harmful Materials
3. Road Traffic Safety Regulations
4. Industrial Waste Storage and Disposal Regulations and Facility Standards

## Section 16 - Other Information

Literature references	MSDS database from vendor	
Prepared by	Supplier : San Fu Chemical Co., Ltd.	
	Address : 340 Hsiao Hsin Li, Shan-Hua District, Tainan City, Taiwan, R.O.C.	
	Supplier's phone : 886-6-5837608	FAX. : 886-6-5839498
	Name : Shao Chen Hsu	
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Remarks	Symbols Explanations: "--" No information is available at this time. "/" Not applicable to this substance.	
■	This information above has consulted national or international papers and manufacturer or supplier's provided information. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Users should make their own determination of the suitability of the information for their particular purposes.	