

Safety Data Sheets (SDS)	Number:	
Scope: <u>Safety Data Sheet Trehalulose</u>	Date: 2025/11/12	

1-Product and Company Identification

Product Name	Trehalulose (1-O- α -D-Glucopyranosyl-D-fructose)
Product use	Restrictions on use: For laboratory research purposes. Not for drug or household use.
Company Name	Shirinsalamat Partikan
Address	Food Phase – Next to the water source, Khomeini Shahr Industrial Park, Isfahan, Iran.
Phone	+983136627983
Fax	-
Website	https://shirinsalamat.com

2-Hazards Identification

Corrosive	Health hazard	Flammable	Toxic	Hazard diamond
-	-	-	-	
Oxidizing	Explosive	Environmental hazard	Harmful	Compressed Gas
-	-	-	-	-

Emergency Overview	-
Hazard Statements	-
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Skin Contact	Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention.
Ingestion	Get medical advice/attention if you feel unwell. Rinse mouth.
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
Risk of Fire	-
Risk of Explosion	-
Environmental hazard	-

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3-Composition / Information on Ingredients

Chemical Name	Chemical Formula	Substance/mixture	(CAS) Number and other Unique Identifiers	Percent
Trehalulose (1-O- α -D-Glucopyranosyl-D-fructose)	C ₁₂ H ₂₂ O ₁₁	Substance	51411-23-5	-

4-First Aid Measures

Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.	
Skin Contact	Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention.	
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.	
Ingestion	Get medical advice/attention if you feel unwell. Rinse mouth.	

5-Fire Fighting Measures

Extinguishing Media	Dry chemical, foam, water spray, carbon dioxide.	
Special Hazards Arising from the Chemical	These products include Carbon oxides. Closed containers may explode from heat of a fire.	
Special Protective Equipment and Precautions For Fire Fighters	Wear self-contained breathing apparatus if possible.	
Other Information	Product is a powder solid, which will not burn.	

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6-Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Use personal protective equipment. Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.
Environmental precautions	Prevent product from entering drains.
Methods and materials for containment and cleaning up	Sweep dust to collect it into an airtight container, taking care not to disperse it. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

7-Handling and Storage

Precautions For Safe Handling	Handling is performed in a well-ventilated place. Wear suitable protective equipment. Prevent dispersion of dust. Wash hands and face thoroughly after handling. Use a local exhaust if dust or aerosol will be generated. Avoid contact with skin, eyes and clothing.	
Storage	Keep container tightly closed. Store in a cool and dark place. Store under inert gas. Protect from moisture. Store away from incompatible materials such as oxidizing agents. Hygroscopic.	

8-Exposure Controls/Personal Protection

Skin and body protection	Protective clothing. Protective boots, if the situation requires.	
Eye Protection	Safety glasses. A face-shield, if the situation requires.	
Hand protection	Protective gloves.	
Respiratory Protection	Dust respirator. Follow local and national regulations.	
Appropriate Engineering Controls	Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed system or local exhaust as possible so that workers should not be exposed directly. Also, install safety shower and eye bath.	
Exposure Limits	-	

9-Physical and Chemical Properties

Appearance	Crystal - Powder
Physical State (20°C)	solid
Color	White - Almost white
Odor	No data available

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Solubility (H ₂ O)	Soluble
Insoluble	Ether
Molecular Weight	342.30
Flash point	-
Melting Point	-
Boiling Point	-
Vapor pressure	-
Viscosity	-
Auto-ignition Temperature	-
PH	-
Other Information	-

10-Stability and Reactivity

Stability	Stable under proper conditions.
Conditions to Avoid	None
Incompatible Materials	Oxidizing agents.
Possibility of Hazardous Reactions	No special reactivity has been reported.
Hazardous decomposition products	Carbon dioxide, Carbon monoxide.

11-Toxicological Information

Possible exposure routes	Eyes	-	
	Skin	-	
	Inhalation	-	
	Ingestion	-	
Acute and Chronic Toxicity	-		
Other Toxicity Information	-		

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12-Ecological Information

Eco toxicity	-	
Persistence and degradability	-	
Bioaccumulation potential	-	
Mobility in soil	-	
Other adverse effects	-	

13-Disposal Considerations

Disposal of product:

Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and Local rules and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. This section is intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not be allowed to enter the environment, drains, waterways, or the soil.

Disposal of container:

Dispose of as unused product.

Other considerations:

Observe all federal, state and local regulations when disposing of the substance.

14-Transport Information

DOT (US): Non-hazardous for transportation. IATA: Non-hazardous for transportation. IMDG: Non-hazardous for transportation.	
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15-Regulatory information

Toxic Substance Control Act (TSCA 8b.) This product is ON the EPA Toxic Substances Control Act (TSCA) inventory. US Federal Regulations CERCLA Hazardous substance and Reportable Quantity: SARA 313: Not Listed Not Listed SARA 302: Not Listed Not Listed State Regulations State Right-to-Know	
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Massachusetts: Not Listed				
New Jersey Pennsylvania: Not Listed Not Listed				
California Proposition 65: Not Listed				
Other Information				
NFPA Rating:		HMIS Classification:		
Health:	1	Health:	0	
Flammability:	0	Flammability:	0	
Instability:	0	Physical:	0	
15.3 Other Regulations				
A: General Product Information				
All ingredients are not confirmed on the TSCA Chemical Substance Inventory.				
B: Component Analysis - Inventory				
Component	CAS	TSCA	DSL	EINECS
Assay	64519-82-0	Yes	Yes	Yes
C: Component Analysis – WHMIS IDL				
No components are listed in the WHMIS IDL				

16-Other information

Revision number: 1 TCI chemicals are for research purposes only and are not intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all-inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards, which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, facemask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.	
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