



Trehalose, Dihydrate

Safety Data Sheet

According to Regulation (EC) 1272/2008 Issue Date: 03/19/21 Revision date: 03/19/24

SECTION 1 - Chemical Product and Company Identification

1.1 Product Identifiers

Product Name: Trehalose, Dihydrate

CAS#: 6138-23-4

Product Code TE3250, TE3251, TE3252, TE3253, TE7251

EC #: : 202-739-6

RTECS #: : Not Available

REACH Registration Number : Not Available

1.2 Recommended Use of the Chemical and Restrictions of Use

Chemical manufacturing

1.3 Supplier Details

Supplier

BioSpectra, Inc.

100 Majestic Way Bangor, PA 18013

T: 610.599.3400 ra@biospecta.us

1.4 Emergency Numbers

US & Canada: 1-800-424-9300

Emergency number:

Outside the US & Canada: +1 703-527-3887

SECTION 2 - Hazard Identification

2.1 Classification of Substance or Mixture

Not classified as a hazard per GHS & Regulation (EC) 1272/2008

2.2 GHS Label Elements Including Precautionary Statements

No information available

2.3 Hazards not Classified or not Covered by the GHS

No information available

SECTION 3 - Composition, Information on Ingredients

Component	Classification	Concentration
Trehalose, Dihydrate	Not Hazardous	98-100%

Synonyms α-D-Glucopyranosyl-α-D-glucopyranoside

 EC Number
 202-739-6

 CAS Number
 6138-23-4

 Molecular Formula
 C₁₂H₂₂O₁₁ 2H₂O

 Molecular Weight
 378.33 g/mol

SECTION 4 – First Aid Measures

4.1 Description of Necessary First Aid Measures

Eyes	Flus	n eyes wi	h ple	nty of	tepid	water fo	or at l	east 1:	5 minutes	, occa	ısionall	y lifting	

the upper and lower lids. Remove contact lens, if present and able to do so.

Contact a physician if irritation develops.

Skin : Flush with plenty of tepid water for at least 15 minutes. Contact a physician if

irritation persists.

Ingestion

Rinse mouth with water. DO NOT induce vomiting, unless instructed to do so. Contact a physician

Inhalation

Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen and contact a physician

4.2 Most Important Symptoms/Effects. Acute and Delayed

Refer to Section 2.2 for Precautionary Statements

4.3 Indication of Immediate Medical Attention and Special Treatment

Treat symptomatically and supportively.

SECTION 5 - Firefighting Measures

5.1 Extinguishing Media

Water spray, dry powder, foam, or Carbon Dioxide

5.2 Specific Hazards Associated with this Chemical

Carbon Oxides

5.3 Special Equipment/Precautions for Firefighters

As with any fire, wear self-contained breathing apparatus pressure-demand, NIOSH (approved or equivalent) and full protective gear.

5.4 Other Information

As with most organic solids, fire is possible at elevated temperatures or by contact with an ignition source. 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. Explosion will appear as fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

SECTION 6 - Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Use Personal Protective Equipment as indicated in Section 8. Ensure adequate ventilation, avoid breathing dust. Avoid dust formation.

6.2 Environmental Precautions

Do not allow to enter drains

6.3 Methods and Materials for Containment and Cleaning Up

Remove all sources of ignition. Clean up spills in a manner that does not disperse dust into the air. Use non-sparking tools and equipment. Reduce airborne dust and prevent scattering by moistening with water. Pick up spill for recovery or disposal and place in a closed container.

6.4 Other Information

Refer to protective measures listed in Section 8 & 13.

SECTION 7 - Handling and Storage

7.1 Precautions for Safe Handling

Provide appropriate exhaust ventilation at places where dust is formed.

7.2 Conditions for Storage Including any Incompatibilities

Store in a cool, dry, well-ventilated area away from incompatible substances. Keep containers tightly closed.

7.3 Other Information

No additional information available.

SECTION 8 - Exposure Controls, Personal Protection

8.1 Control Parameters

Contains no substances with occupational exposure limit values

8.2 Engineering Controls

Local exhaust is recommended to keep employee exposures as low as possible.

8.3 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. Wear impervious gloves.

Clothing

Wear appropriate protective clothing to prevent skin exposure

Respirators

Where protection from nuisance levels of dusts are desired, use type N95 (US) or P1 (EN143) dust masks. 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 a respirator's use.

SECTION 9 - Physical and Chemical Properties

Physical State Solid

White Crystalline Powder Appearance

Odor Odorless

pН 4.5-6.5 @ 10% ag sol

Vapor Density Not Available Not Available Viscosity **Boiling Point** Not Available 207-210°F/97-99°C Melting Point Not Available

Specific Gravity/Density

Solubility 50 g/L in Water (insoluble in ether)

SECTION 10 - Stability and Reactivity

10.1 Chemical Stability

Stable under normal temperatures and pressures.

10.2 Conditions to Avoid

Excess heat, dust generation, ignition sources, and incompatible materials

10.3 Incompatibilities with Other Materials

Strong oxidizers

10.4 Hazardous Decomposition Products

Not Available

10.5 Hazardous Polymerization

Will not occur.

SECTION 11 - Toxicological Information

11.1 Toxicological Effects

LD50/LC50 Oral, rat Based on available data, the classification criteria are not met Carcinogenicity Based on available data, the classification criteria are not met **Epidemiology** Based on available data, the classification criteria are not met Teratogenicity Based on available data, the classification criteria are not met Reproductive Effects Based on available data, the classification criteria are not met Based on available data, the classification criteria are not met Neurotoxicity Based on available data, the classification criteria are not met Mutagenicity Other Studies No Information Available

11.2 Additional Information

To the best of our knowledge the associated physical, chemical and toxicological properties of this chemical have not undergone thorough investigation, all known information is contained in this SDS.

SECTION 12 - Ecological Information

12.1 Ecotoxicity

Based on available data, the classification criteria are not met

12.2 Persistence and Degradability

No information available

12.3 Bioaccumulative Potential

No information available

12.4 Mobility in Soil

No information available

12.5 Results of PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).

12.6 Other Adverse Effects

No information available

SECTION 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

SECTION 14 - Transport Information

Regulations	US DOT	IATA	IMDG	ADR	
Shipping Name					
Hazard Class	Not a Dangerous	Not a Dangerous	Not a Dangerous	Not a Dangerous Good	
UN Number	Good	Good	Good		
Packing Group					

SECTION 15 - Regulatory Information

15.1 EHS Chemical Specific Regulations

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Section 302

Section 313

SARA 311/312 Hazards

STATE SPECIFIC:

Massachusetts Right To Know Components Pennsylvania Right To Know Components

New Jersey Right To Know Components California Prop. 65 Components

- No components exceed the threshold reporting levels established by SARA
- title III, Section 302
- No components exceed the threshold reporting levels established by SARA title III, Section 313
- None known
- No components are subject to the Massachusetts Right to Know Act.
- No components are subject to the Pennsylvania Right to Know Act.
- No components are subject to the New Jersey Right to Know Act.
- This product does not contain any chemicals known to State of California to
- cause cancer, birth defects, or any other reproductive harm

SECTION 16 - Additional Information

16.1 Hazard Ratings

NFPA Rating				
Health hazard	1			
Fire Hazard	1			
Reactivity Hazard	0			

HMIS Classification				
Health hazard	1			
Flammability	1			
Physical Hazards	0			
Personal Protection	E			

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