



# 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 :  $\alpha$ -D-Glucopyranosyl- $\alpha$ -D-glucopyranoside

### **SECTION 4 – First Aid Measures**

### 4.1 Description of Necessary First Aid Measures

Eyes : Flush eyes with plenty of tepid water for at least 15 minutes, occasionally 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.

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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**

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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

Appearance : White Crystalline Powder

Odor : Odorless

pH : 4.5-6.5 @ 10% aq sol

Vapor Density

i Not Available

Viscosity

i Not Available

Boiling Point

i Not Available

Melting Point

i 207-210°F/97-99°C

Specific Cravity/Density

i Not Available

Specific Gravity/Density : Not Available

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

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Teratogenicity : Based on available data, the classification criteria are not met Reproductive Effects : Based on available data, the classification criteria are not met Neurotoxicity : Based on available data, the classification criteria are not met Mutagenicity : Based on available data, the classification criteria are not met

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		Not a Dangerous Good	Not a Dangerous Good	Not a Dangerous Good
Hazard Class	Not a Dangerous Good			
UN Number				
Packing Group				

# SECTION 15 - Regulatory Information

#### 15.1 EHS Chemical Specific Regulations

**SARA:** 

Section 302 No components exceed the threshold reporting levels established by SARA

title III, Section 302

Section 313 No components exceed the threshold reporting levels established by SARA

title III, Section 313

SARA 311/312 Hazards : None known

#### **STATE SPECIFIC:**

Massachusetts Right To Know Components Pennsylvania Right To Know Components

No components are subject to the Pennsylvania Right to Know Act.No components are subject to the New Jersey Right to Know Act.

New Jersey Right To Know Components California Prop. 65 Components

This product does not contain any chemicals known to State of California to

No components are subject to the Massachusetts Right to Know Act.

cause cancer, birth defects, or any other reproductive harm

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# 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	Е	

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