

# SAFETY DATA SHEET

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 29-Oct-2010
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 18-Jan-2018
 Revision Number
 4

 1. Identification
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BP2687-1; BP2687-10; BP2687-25; BP2687-100

### Product Name

D(+)-Trehalose dihydrate

Cat No. :

CAS-No Synonyms 6138-23-4 alpha-D-Glucopyranosyl-alpha-D-glucopyranoside

Recommended Use Uses advised against Laboratory chemicals. Not for food, drug, pesticide or biocidal product use

### Details of the supplier of the safety data sheet

#### <u>Company</u>

Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

### **Emergency Telephone Number**

CHEMTREC®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 001-703-527-3887

2. Hazard(s) identification

### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Combustible dust

Yes

### Label Elements

Signal Word Warning

Hazard Statements May form combustible dust concentrations in air

Precautionary Statements Storage Store in a well-ventilated place. Keep container tightly closed <u>Hazards not otherwise classified (HNOC)</u> None identified

### 3. Composition/Information on Ingredients

Component	CAS-No	Weight %
Trehalose dihydrate	6138-23-4	>95
.alphaD-Glucopyranoside,	99-20-7	-
.alphaD-glucopyranosyl		

	4. First-aid	measures		
Eye Contact	Rinse immediately with pler medical attention.	ty of water, also under the eyeli	ids, for at least 15 minutes. Get	
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.			
Inhalation	Move to fresh air. Get medi	cal attention immediately if symp	otoms occur.	
Ingestion	Do not induce vomiting. Ob	ain medical attention.		
Most important symptoms and	None reasonably foreseeab	le.		
effects Notes to Physician	Treat symptomatically			
	5. Fire-fightin	g measures		
Suitable Extinguishing Media	Use water spray, alcohol-re	sistant foam, dry chemical or ca	rbon dioxide.	
Unsuitable Extinguishing Media	No information available			
Flash Point Method -	No information available No information available			
Autoignition Temperature Explosion Limits	Not applicable			
Upper Lower	No data available No data available			
Sensitivity to Mechanical Impac Sensitivity to Static Discharge				
Specific Hazards Arising from the C Fine dust dispersed in air may ignite.	hemical			
Hazardous Combustion Products Carbon monoxide (CO) Carbon dioxide Protective Equipment and Precaution As in any fire, wear self-contained breat protective gear.	ons for Firefighters	mand, MSHA/NIOSH (approved	d or equivalent) and full	
NFPA	<b>-</b>			
Health -	Flammability 1	Instability -	Physical hazards N/A	
	6. Accidental rel	ease measures		
Personal Precautions Environmental Precautions		ipment. Ensure adequate ventil the environment. See Section 1		

Methods for Containment and Clean Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust Up formation.

7. Handling and storage

Handling	Wear personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. Avoid dust formation.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place.
8. E	xposure controls / personal protection
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.
Engineering Measures <u>Personal Protective Equipment</u>	None under normal use conditions.
Eye/face Protection	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 and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
<b>Respiratory Protection</b>	No protective equipment is needed under normal use conditions.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Powder Solid
Appearance	Off-white
Odor	Odorless
Odor Threshold	No information available
рН	4.5-6.5 10% aq. sol
Melting Point/Range	97 - 99 °C / 206.6 - 210.2 °F
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	Not applicable
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C12 H22 O11 . 2 H2 O
Molecular Weight	378.32

### 10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Incompatible products. Excess heat. Avoid dust formation.

Incompatible Materials	Strong oxidizing agents					
Hazardous Decomposition Produc	(CO), Carbon dio	xide (CO <sub>2</sub> )				
Hazardous Polymerization	Hazardous polyme	erization does not	occur.			
Hazardous Reactions	None under norma	al processing.				
	11. Toxico	ological inf	ormation			
Acute Toxicity						
Product Information Oral LD50 Dermal LD50 Mist LC50 Component Information	Based on ATE data	a, the classification	on criteria are not m on criteria are not m on criteria are not m	et. ATE > 2000 mg		
Component	LD50 Oral		LD50 Dermal	LC50	Inhalation	
Trehalose dihydrate	4600 mg/kg (Rat)		Not listed		ot listed	
.alphaD-Glucopyranoside, .alphaD-glucopyranosyl	4600 mg/kg (Rat)		Not listed	NC	ot listed	
Toxicologically Synergistic Products Delayed and immediate effects as	No information ava		nd long-term expo	sure_		
Irritation	Irritating to eyes ar	nd skin				
Sensitization	No information ava	ailable				
Carcinogenicity	The table below in	dicates whether e	ach agency has list	ed any ingredient a	as a carcinogen.	
Component CAS-No	IARC	NTP	ACGIH	OSHA	Mexico	
Trehalose dihydrate 6138-23-4	Not listed	Not listed	Not listed	Not listed	Not listed	
.alphaD-Glucopyrano side, .alphaD-glucopyrano syl	Not listed	Not listed	Not listed	Not listed	Not listed	
Mutagenic Effects	No information ava	ailable				
Reproductive Effects	No information ava	No information available.				
Developmental Effects	No information ava	ailable.				
Teratogenicity	No information ava	ailable.				
STOT - single exposure STOT - repeated exposure	None known None known					
Aspiration hazard	No information ava	ailable				
Symptoms / effects,both acute an delayed	d No information ava	1 No information available				
Endocrine Disruptor Information	No information ava	ailable				
Other Adverse Effects	The toxicological p	The toxicological properties have not been fully investigated.				

12. Ecological information

Ecotoxicity Do not empty into drains.

Persistence and Degradability	Soluble in water Persistence is unlikely based on information available.
<b>Bioaccumulation/ Accumulation</b>	No information available.
Mobility	Will likely be mobile in the environment due to its water solubility.
	13. Disposal considerations
Waste Disposal Methods	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

	14. Transport information	
DOT TDG IATA	Not regulated	
TDG	Not regulated	
<u>IATA</u>	Not regulated	
IMDG/IMO	Not regulated	
15. Regulatory information		

#### International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Trehalose dihydrate	-	-	-	-	-		Х	-	Х	Х	-
.alphaD-Glucopyranoside,	Х	Х	-	202-739-6	-		-	Х	Х	Х	-
.alphaD-glucopyranosyl											

Legend: X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated

polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b)	Not applicable
SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
<b>OSHA</b> Occupational Safety and Health Not applicable	Administration
CERCLA	Not applicable
California Proposition 65	This product does not contain any Proposition 65 chemicals
U.S. State Right-to-Know	Not applicable

### Regulations

### U.S. Department of Transportation

Reportable Quantity (RQ):	Ν
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

### **U.S. Department of Homeland Security**

This product does not contain any DHS chemicals.

### Other International Regulations

Mexico - Grade

No information available

	16. Other information
Prepared By	Regulatory Affairs Thermo Fisher Scientific
	Email: EMSDS.RA@thermofisher.com
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Revision Summary	This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

## **End of SDS**