

# SAFETY DATA SHEET

Creation Date 14-May-2010

Revision Date 15-Mar-2018

D-(+)-Raffinose pentahydrate

**Revision Number** 1

# 1. Identification

**Product Name** 

# A18313

Cat No. :

CAS-No Synonyms 17629-30-0 No information available

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>

Alfa Aesar Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757 **Email:** tech@alfa.com www.alfa.com

### **Emergency Telephone Number**

During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.

# 2. Hazard(s) identification

### Classification

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Based on available data, the classification criteria are not met

#### Label Elements None required

Hazards not otherwise classified (HNOC)

None identified

# 3. Composition/Information on Ingredients

Component	CAS-No	Weight %
Raffinose pentahydrate	17629-30-0	100
.alphaD-Glucopyranoside, .betaD-fructofuranosyl OalphaD-galactopyranosyl-(1.fwdarw.6)-	512-69-6	-

	4. First-aid	measures						
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.							
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	Move to fresh air. Get medical attention immediately if symptoms occur.						
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.							
Most important symptoms and effects	None reasonably foreseeat	ble.						
Notes to Physician	Treat symptomatically							
	5. Fire-fightin	ig measures						
Suitable Extinguishing Media		esistant foam, dry chemical or ca	arbon dioxide.					
Unsuitable Extinguishing Media	No information available							
Flash Point Method -	No information available No information available							
Autoignition Temperature Explosion Limits	Not applicable							
Upper	No data available							
Lower Sensitivity to Mechanical Impac	No data available							
Sensitivity to Static Discharge								
Specific Hazards Arising from the Chemical Keep product and empty container away from heat and sources of ignition.								
Hazardous Combustion Products Carbon monoxide (CO) Carbon dioxid Protective Equipment and Precaution As in any fire, wear self-contained bree protective gear.	ons for Firefighters	emand, MSHA/NIOSH (approve	d or equivalent) and full					
<u>NFPA</u> Health 1	Flammability 1	Instability 0	Physical hazards N/A					
	6. Accidental rel	ease measures						
Personal Precautions Environmental Precautions		uipment. Ensure adequate venti	lation. Avoid dust formation.					
Methods for Containment and Clean Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation.								

	7. Handling and storage
Handling	Ensure adequate ventilation. Wear personal protective equipment. 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	None under normal use conditions.
Personal Protective Equipment	
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

	in the offernous properties
Physical State	Powder Solid
Appearance	White
Odor	Odorless
Odor Threshold	No information available
pH	No information available
Melting Point/Range	78 - 81 °C / 172 - 177 °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	Soluble in water
Partition coefficient; n-octanol/wa	ter No data available
Autoignition Temperature	Not applicable
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C18 H32 O16 . 5 H2 O
Molecular Weight	594.52
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# 10. Stability and reactivity

Reactive Hazard	None known, based on information available			
Stability	Stable under normal conditions.			
Conditions to Avoid	Incompatible products. Avoid dust formation.			
Incompatible Materials Strong oxidizing agents				
Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2)				

Hazardous Polymer	ization	Hazardous polymerization does not occur.					
Hazardous Reaction	ns	None under normal processing.					
		11. Toxicological information					
Acute Toxicity							
Product Information Oral LD50 Dermal LD50 Mist LC50 Component Informa Toxicologically Syn Products Delayed and immed	ation ergistic	No acute toxicity information is available for this product Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg. Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg. Based on ATE data, the classification criteria are not met. ATE > 5 mg/l. No information available well as chronic effects from short and long-term exposure_					
Irritation		May cause eye, skin, and respiratory tract irritation					
Sensitization		No information available					
Carcinogenicity		The table below indicates whether each agency has listed any ingredient as a carcinogen.					
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico	

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico				
Raffinose	17629-30-0	Not listed	Not listed	Not listed	Not listed	Not listed				
pentahydrate	540.00.0	NetPeter	No. Para d	Not Potent	Net Pate d	Mat Patad				
.alphaD-Glucopyrano	512-69-6	Not listed	Not listed	Not listed	Not listed	Not listed				
side,										
.betaD-fructofuranosy										
OalphaD-galactopyr										
anosyl-(1.fwdarw.6)-										
Mutagenic Effects		No information ava	l piloblo							
Mulagenic Ellecis		NO INO INO INO AVA								
Reproductive Effects	c	No information ava	nilabla							
Reproductive Effects	5	NO INO MIOMANON AVA	allable.							
Developmental Effect	ote	No information ava	ailabla							
Developmental Ener	.15	NO INFORMATION AVA								
Teratogenicity		No information available.								
relatogenicity	alogenicity									
STOT - single expos		None known								
	STOT - repeated exposure		None known							
Aspiration hazard		No information ava	ailahle							
		No momaton ave								
Symptoms / effects.	both acute and	No information ava	ailahle							
delayed		No momaton ave								
uoluyou										
Endocrine Disruptor	Information	No information ava	ailable							
	lineination									
Other Adverse Effec	ts	The toxicological p	properties have not	been fully investion	ated.					
					,					
		10 Ecol	oglaatinfar	mation						
		12. ECOI	ogical infor	mation						
Ecotoxicity										
Do not empty into dra	ins.									

Persistence and Degradability	Soluble in water Persistence is unlikely based on information available.
Bioaccumulation/ Accumulation	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	Not regulated
DOT TDG IATA	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated
	15. Regulatory information

All of the components in the product are on the following Inventory lists: X = listed

#### International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Raffinose pentahydrate	-	-	-	-	-		-	-	Х	Х	-
.alphaD-Glucopyranoside, .betaD-fructofuranosyl OalphaD-galactopyranosyl -(1.fwdarw.6)-	Х	Х	-	208-146-9	-		Х	-	Х	Х	-

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	a Administration
CERCLA	Not applicable
California Proposition 65	This product does not contain any Proposition 65 chemicals
U.S. State Right-to-Know Regulations	Not applicable

### **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	
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No information available

16. Other information		
Prepared By	Health, Safety and Environmental Department	
	Email: tech@alfa.com	
	www.alfa.com	
Creation Date	14-May-2010	
Revision Date	15-Mar-2018	
Print Date	15-Mar-2018	
Revision Summary	SDS authoring systems update, replaces ChemGes SDS No. 17629-30-0/1.	

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