

Revision date 26/10/2018

# Raffinose pentahydrate

Safety Data Sheet according to Regulation (EU) 2015/830

Date of issue: 01/07/2011

Supersedes 03/08/2011

R0812

Version: 3.0

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier	
Product form	: Substance
Trade name	: Raffinose pentahydrate
EC-No.	: 208-146-9
CAS-No.	: 17629-30-0
Product code	: R0812
Formula	: C18H32O16 · 5H2O
Synonyms	: D-Raffinose pentahydrate Melitose
Product group	: Raw material

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

Main use category	: Professional use
Industrial/Professional use spec	: For professional use only. Duchefa Biochemie B.V. products are intended
	only for "in vitro laboratory" research purposes.

#### 1.2.2. Uses advised against

No additional information available

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

#### Supplier

Duchefa Biochemie B.V. A. Hofmanweg 71 2031 BH Haarlem - The Netherlands T +31(0)23-5319093 - F +31(0)23-5318027 info@duchefa.nl

#### 1.4. Emergency telephone number

Emergency number

: Supplier contact information: +31(0)23-5319093 (M-F 09:00-17:00) +31(0)6-30109355 (outside office hours)

Organisation/Company	Address	Comment
World Health Organization world directory of poison centres	http://apps.who.int/poisoncentres/	Consult website for a local poison centre

## **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

## Classification according to Regulation (EC) No. 1272/2008 [CLP]

## Not classified

## Adverse physicochemical, human health and environmental effects

No additional information available

Safety Data Sheet

according to Regulation (EU) 2015/830

#### 2.2. Label elements

### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

#### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Name	: Raffinose pentahydrate
CAS-No.	: 17629-30-0
EC-No.	: 208-146-9

Name	Product identifier	%
Raffinose pentahydrate	(CAS-No.) 17629-30-0	>= 98
	(EC-No.) 208-146-9	

Full text of H-statements: see section 16

#### 3.2. Mixtures

Not applicable

## SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures general	: Seek medical attention if ill effect develops.
First-aid measures after inhalation	: Assure fresh air breathing.
First-aid measures after skin contact	: Wash skin with mild soap and water.
First-aid measures after eye contact	: Rinse with water.
First-aid measures after ingestion	: Rinse mouth.

#### 4.2. Most important symptoms and effects, both acute and delayed

No additional information available

## 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5<sup>.</sup> Firefighting measures

5.1. Extinguishing media			
Suitable extinguishing media	: Alcohol resistant foam.		
	Dry chemical powder.		
	Carbon dioxide (CO2).		
	Water spray.		
5.2. Special hazards arising from the substance or mixture			
Hazardous decomposition products in	: When heated to decomposition, emits toxic fumes:		
case of fire	- COx		
	- NOx.		

Safety Data Sheet

according to Regulation (EU) 2015/830

# 5.3. Advice for firefighters

Firefighting instructions	: Avoid (reject) fire-fighting water to enter environment.
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Protection during firefighting : Wear proper protective equipment.

## **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Measures in case of dust release : Use good housekeeping practices to avoid rendering dust airborne.

#### 6.1.2. For emergency responders

No additional information available

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Sweep up dry powder and dispose properly. Dispose in a safe manner in accordance with local/national regulations.

#### 6.4. Reference to other sections

No additional information available

## SECTION 7: Handling and storage

## 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Handle in accordance with good industrial hygiene and safety procedures.

# 7.2. Conditions for safe storage, including any incompatibilities

: Store in dry, well-ventilated area
Keep container tightly closed and dry
Store at room temperature.

#### 7.3. Specific end use(s)

For professional use only. Duchefa Biochemie B.V. products are intended only for "in vitro laboratory" research purposes.

## **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

No additional information available

#### 8.2. Exposure controls

#### Hand protection:

Туре	Material	Permeation	Thickness (mm)	Standard
Gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0,11	EN 374

#### Eye protection:

Safety glasses (to European standard EN 166 or equivalent)

#### Skin and body protection:

Wear suitable protective clothing

Safety Data Sheet

according to Regulation (EU) 2015/830

#### **Respiratory protection:**

Where excessive dust may result, wear approved mask. Type P1 (EN 143)

## **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state Appearance Molecular mass Colour	: Solid : Crystalline powder. : 594,5 g/mol : White.
Odour Odour threshold pH Relative evaporation rate (butylacetate=1)	<ul> <li>: Odourless.</li> <li>: No data available</li> <li>: No data available</li> <li>: No data available</li> </ul>
Melting point Freezing point Boiling point Flash point Auto-ignition temperature Decomposition temperature Flammability (solid, gas) Vapour pressure Relative vapour density at 20 °C Relative density Solubility	<ul> <li>≈ 78 °C</li> <li>No data available</li> <li>Mo data available</li> <li>Mo data available</li> <li>Mo data available</li> <li>No data available</li> </ul>
Log Pow Viscosity, kinematic Viscosity, dynamic Explosive properties Oxidising properties Explosive limits	<ul> <li>No data available</li> </ul>

#### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Stable under normal conditions of storage, handling and use.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No additional information available

#### 10.4. Conditions to avoid

Moisture.

Safety Data Sheet

according to Regulation (EU) 2015/830

#### 10.5. Incompatible materials

Strong oxidizers.

## 10.6. Hazardous decomposition products

When heated to decomposition, emits dangerous fumes:

- COx

- NOx.

## **SECTION 11: Toxicological information**

#### **11.1.** Information on toxicological effects

Acute toxicity	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

## **SECTION 12: Ecological information**

#### 12.1. Toxicity

No additional information available

### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

No additional information available

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

Additional information

: Avoid release to the environment. Prevent entry to sewers and public waters

### SECTION 13: Disposal considerations

## 13.1. Waste treatment methods

Waste treatment methods

: Dispose in a safe manner in accordance with local/national regulations.

Safety Data Sheet

according to Regulation (EU) 2015/830

# **SECTION 14: Transport information**

#### In accordance with ADR / IATA / IMDG

ADR	IMDG	ΙΑΤΑ		
14.1. UN number				
Not regulated	Not regulated	Not regulated		
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated		
Not regulated	Not regulated	Not regulated		
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated		
Not regulated	Not regulated	Not regulated		
14.4. Packing group				
Not regulated	Not regulated	Not regulated		
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated		
No supplementary information available				

#### 14.6. Special precautions for user

#### Overland transport

Not regulated

#### - Transport by sea

Not regulated

#### - Air transport

Not regulated

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## **SECTION 15: Regulatory information**

## 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions Raffinose pentahydrate is not on the REACH Candidate List Raffinose pentahydrate is not on the REACH Annex XIV List

#### 15.1.2. National regulations

Ensure all national/local regulations are observed.

#### Germany

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)
Netherlands	
SZW-lijst van kankerverwekkende stoffen	: The substance is not listed
SZW-lijst van mutagene stoffen	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: The substance is not listed

6/7

Safety Data Sheet

according to Regulation (EU) 2015/830

NIET-limitatieve lijst van voor de voortplanting giftige stoffen –: The substance is not listedVruchtbaarheid: The substance is not listedNIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling: The substance is not listed

## 15.2. Chemical safety assessment

No additional information available

## **SECTION 16: Other information**

Indication of changes:

1.4	Emergency number	Modified	
8.2	Hand protection	Modified	Specified material, thickness, et
			cetera of gloves

#### Abbreviations and acronyms:

Acute Toxicity Estimate	
European Agreement concerning the International Carriage of Dangerous Goods by Road	
Bioconcentration factor	
Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008	
Dangerous Preparations Directive 1999/45/EC	
Dangerous Substances Directive 67/548/EEC	
International Air Transport Association	
International Maritime Dangerous Goods	
Median lethal concentration	
Median lethal dose	
Lowest Observed Adverse Effect Level	
No-Observed Adverse Effect Concentration	
Persistent Bioaccumulative Toxic	
Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006	
Safety Data Sheet	

Data sources

: ECHA (European Chemicals Agency). Supplier.

### SDS Biochemicals version 2018

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product