

Safety Data Sheet

according to Regulation (EU) 2015/830

P1365

Version: 2.0

Date of issue: 04/01/2011 Revision of

Supersedes 21/09/2011

Revision date: 19/09/2017

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

#### 1.1. Product identifier

Product form : Substance
Trade name : Polysorbate 80
EC-No. : 500-019-9
CAS-No. : 9005-65-6
Product code : P1365

Formula : C64H124O26

Synonyms : Polyoxyethylene sorbitan monooleate / Tween 80

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)

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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

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#### 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

Comments : Circa 70% oleic acid. Other fatty acids: linoleic, palmitic and stearic acids

 Name
 : Polysorbate 80

 CAS-No.
 : 9005-65-6

 EC-No.
 : 500-019-9

Name	Product identifier	%
Polyoxyethylenesorbitan monooleate	(CAS-No.) 9005-65-6	100
	(EC-No.) 500-019-9	

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 after inhalation : Remove victim to fresh air. First-aid measures after skin contact : Flush with plenty of water.

First-aid measures after eye contact : Rinse with water.

First-aid measures after ingestion : Seek medical attention if ill effect develops. Give water to drink.

### 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: Firefighting measures**

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. dry chemical powder, alcohol-resistant foam, carbon dioxide

(CO2).

### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in : When exposed to heat, may decompose liberating hazardous gases. COx.

case of fire

### 5.3. Advice for firefighters

Precautionary measures fire : Wear proper protective equipment.

Firefighting instructions : Prevent fire fighting water from entering the environment.

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

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

General measures : Wear proper protective equipment.

### 6.1.1. For non-emergency personnel

No additional information available

### 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 : Dike for recovery or absorb with appropriate material.

#### 6.4. Reference to other sections

No additional information available

## **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

No additional information available

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in dry, well-ventilated area. Store at room temperature. Keep

container tightly closed and protected from light.

### 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

#### Skin and body protection:

Wear suitable protective clothing

### Respiratory protection:

Suitable respiratory equipment

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## SECTION 9: Physical and chemical properties

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

Physical state : Liquid
Appearance : Oily liquid.
Molecular mass : 1310 g/mol

Colour : Clear to hazy. Yellow-brown.

Odour : Odourless.

Odour threshold : No data available pH : 5 - 7 (50 g/l, 20 °C) Relative evaporation rate : No data available

(butylacetate=1)

Melting point : No data available
Freezing point : No data available
Boiling point : No data available

Flash point : > 100 °C

Auto-ignition temperature : No data available Decomposition temperature : No data available : No data available Flammability (solid, gas) Vapour pressure : No data available Relative vapour density at 20 °C : No data available Relative density : No data available : 1,08 - 1,12 g/cm<sup>3</sup> Density : Water: ≈ 100 g/l Solubility

Log Pow: No data availableViscosity, kinematic: No data availableViscosity, dynamic: ≈ 400 mPa.sExplosive properties: No data availableOxidising properties: No data availableExplosive limits: No data available

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under normal conditions.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

No additional information available

### 10.5. Incompatible materials

Oxidising agents.

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### Hazardous decomposition products

No additional information available

## SECTION 11: Toxicological information

### Information on toxicological effects

Acute toxicity : Not classified

Polysorbate 80 (9005-65-6)		
LD50 oral rat	> 60 ml/kg	
Skin corrosion/irritation	: Not classified	

pH: 5 - 7 (50 g/l, 20 °C)

: Not classified

Serious eye damage/irritation

pH: 5 - 7 (50 g/l, 20 °C)

Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

Reproductive toxicity : Not classified : Not classified STOT-single exposure STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

Other information : See actual entry in RTECS for complete information: . WG2934000.

### **SECTION 12: Ecological information**

### **Toxicity**

No additional information available

#### 12.2. Persistence and degradability

No additional information available

#### Bioaccumulative potential 12.3.

No additional information available

#### Mobility in soil

No additional information available

#### Results of PBT and vPvB assessment

No additional information available

### 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 : Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.

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## **SECTION 14: Transport information**

In accordance with ADR / IATA / IMDG

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

#### Special precautions for user

### . Overland transport

Not applicable

#### - Transport by sea

Not applicable

### - Air transport

Not applicable

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

Not applicable

## **SECTION 15: Regulatory information**

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

### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Polysorbate 80 is not on the REACH Candidate List

Polysorbate 80 is not on the REACH Annex XIV List

#### 15.1.2. National regulations

Ensure all national/local regulations are observed.

### Germany

VwVwS Annex reference : Water hazard class (WGK) 1, low hazard to waters (Classification according

to VwVwS, Annex 3; ID No. 3699)

12th Ordinance Implementing the

Federal Immission Control Act -

12.BImSchV

: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

### **Netherlands**

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SZW-lijst van kankerverwekkende

stoffen

SZW-lijst van mutagene stoffen

NIET-limitatieve lijst van voor de voortplanting giftige stoffen -

Borstvoeding

NIET-limitatieve lijst van voor de voortplanting giftige stoffen -Vruchtbaarheid

NIET-limitatieve lijst van voor de voortplanting giftige stoffen -

Ontwikkeling

: The substance is not listed

: The substance is not listed : The substance is not listed

: The substance is not listed

: The substance is not listed

#### **Chemical safety assessment** 15.2.

No additional information available

### **SECTION 16: Other information**

### Indication of changes:

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

### Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DPD	Dangerous Preparations Directive 1999/45/EC
DSD	Dangerous Substances Directive 67/548/EEC
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
PBT	Persistent Bioaccumulative Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
SDS	Safety Data Sheet

Data sources

: Supplier. REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

#### SDS Biochemicals version 2017

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

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