



# POLYSORBATE 20

## Product Safety Information Sheet

A safety data sheet is not required for this product under Article 31 of REACH. This Product Safety Information Sheet has been created on a voluntary basis

Reference number: POLYSORBATE 20

Issue date: 7/21/2021 Revision date: 2/20/2024 Supersedes version of: 7/21/2021 Version: 3.1

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

#### 1.1. Product identifier

Product form : Substance  
Substance name : POLYSORBATE 20  
CAS-No. : 9005-64-5  
REACH registration No. : Exempte polymère  
Product code : POLYSORBATE 20

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

##### 1.2.1. Relevant identified uses

Use of the substance/mixture : Emulsifiant

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of product safety information sheet

INTERCHIMIE  
ZAC du Parc  
13 rue Louis Blériot  
FR- 77290 COMPANS  
T T: +33 (0)1 64 77 76 27  
[qualite@interchimie.fr](mailto:qualite@interchimie.fr), [www.interchimie.fr](http://www.interchimie.fr)

#### 1.4. Emergency telephone number

No additional information available

### 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

#### 2.2. Label elements

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

No labelling applicable

#### 2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

Not applicable.

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Contains no PBT and/or vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Name : POLYSORBATE 20  
CAS-No. : 9005-64-5

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Name	Product identifier	%
Sorbitan monolaurate, ethoxylated	CAS-No.: 9005-64-5 EC-No.: 500-018-3 EC Index-No.: Exp REACH-no: EXEMPTED POLYMERE	≥ 100

### 3.2. Mixtures

Not applicable

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general	: This product is not considered to be hazardous. When in doubt or if symptoms are observed, get medical advice.
First-aid measures after inhalation	: If you feel unwell, seek medical advice. Allow affected person to breathe fresh air.
First-aid measures after skin contact	: Wash with soapy water.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes.
First-aid measures after ingestion	: Rinse mouth out with water. Do not induce vomiting. Get medical advice/attention.

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

Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.
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### 4.3. Indication of any immediate medical attention and special treatment needed

May result in aspiration into the lungs.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: Making extinguishing agents environment-friendly.
Unsuitable extinguishing media	: Do not use a heavy water stream.

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

Hazardous decomposition products in case of fire	: Toxic fumes may be released. Carbon dioxide. Carbon monoxide.
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### 5.3. Advice for firefighters

Protection during firefighting	: Do not attempt to take action without suitable protective equipment.
Other information	: Prevent fire fighting water from entering the environment.

## SECTION 6: Accidental release measures

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

General measures	: Spill area may be slippery. Evacuate area.
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#### 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

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

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

Methods for cleaning up : Take up liquid spill into absorbent material.

### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of solid materials or residues refer to section 13 : "Disposal considerations".

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : This product is not considered to be hazardous. Do not eat, drink or smoke when using this product.  
Hygiene measures : Always wash hands after handling the product.

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

Storage temperature : 5 – 40 °C  
Information on mixed storage : Combustible liquid.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

No additional information available

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

#### POLYSORBATE 20 (9005-64-5)

##### PNEC (Water)

PNEC aqua (freshwater)	0.2 mg/l
PNEC aqua (marine water)	0.02 mg/l

##### PNEC (Sediment)

PNEC sediment (freshwater)	1.141 mg/kg dwt
PNEC sediment (marine water)	1000 mg/kg dwt

#### 8.1.5. Control banding

No additional information available

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

No additional information available

#### 8.2.2. Personal protection equipment

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### 8.2.2.1. Eye and face protection

**Eye protection:**  
Safety glasses. ISO 16321-1

### 8.2.2.2. Skin protection

**Hand protection:**  
Nitrile rubber gloves

Hand protection					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
	Nitrile rubber (NBR)	4 (> 120 minutes)	> 0.5mm		EN ISO 374

**Other skin protection**  
**Materials for protective clothing:**  
Protective clothing

### 8.2.2.3. Respiratory protection

**Respiratory protection:**  
No respiratory protection needed under normal use conditions

**8.2.2.4. Thermal hazards**  
No additional information available

### 8.2.3. Environmental exposure controls

**Other information:**  
Do not eat, drink or smoke when using this product.

## SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Colour	: light yellow.
Odour	: characteristic.
Odour threshold	: Not available
Melting point	: < 0 °C
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Not available
Explosive properties	: No dangerous reactions known.
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: 330 °C
Auto-ignition temperature	: Not available
Decomposition temperature	: 300 °C
pH	: Not available
pH solution	: 5 g/l =5.0-8.0
Viscosity, kinematic	: Not available
Viscosity, dynamic	: 400 cP (20°C)
Solubility	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: < 300kPa
Density	: Not available
Relative density	: 1.05 – 1.1 g/cm3 (60°C)
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

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### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is stable at normal handling and storage conditions.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Stable under normal conditions of use.

### 10.4. Conditions to avoid

No additional information available

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide. fume.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

POLYSORBATE 20 (9005-64-5)	
LD50 oral rat	40554 mg/kg
LD50 dermal	> 2000 mg/kg
LC50 Inhalation - Rat	> 20 mg/l

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

### 11.2. Information on other hazards

No additional information available

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### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general : Catégorie de pollution des eaux 1 (Classification propre) : Peu polluant.  
Hazardous to the aquatic environment, short-term (acute) : Not classified  
Hazardous to the aquatic environment, long-term (chronic) : Not classified

#### 12.2. Persistence and degradability

##### POLYSORBATE 20 (9005-64-5)

Persistence and degradability	Not readily biodegradable.
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##### Sorbitan monolaurate, ethoxylated (9005-64-5)

Persistence and degradability	Rapidly degradable
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#### 12.3. Bioaccumulative potential

##### POLYSORBATE 20 (9005-64-5)

Bioaccumulative potential	Bioaccumulation unlikely.
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#### 12.4. Mobility in soil

No additional information available

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

##### POLYSORBATE 20 (9005-64-5)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

Not applicable.

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

#### 12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : Not reported evidence concerning this effect.

#### 12.7. Other adverse effects

No additional information available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Regional waste regulation : Disposal must be done according to official regulations.

### SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number or ID number</b>				
Not regulated for transport				

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ADR	IMDG	IATA	ADN	RID
14.2. UN proper shipping name				
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
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards				
Not regulated	Not regulated	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

**Inland waterway transport**

Not regulated

**Rail transport**

Not regulated

### 14.7. Maritime transport in bulk according to IMO instruments

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**

**REACH Annex XVII (Restriction List)**

Not listed on REACH Annex XVII

**REACH Annex XIV (Authorisation List)**

Not listed on REACH Annex XIV (Authorisation List)

**REACH Candidate List (SVHC)**

Not listed on the REACH Candidate List

**PIC Regulation (Prior Informed Consent)**

Not listed on the PIC list (Regulation EU 649/2012)

**POP Regulation (Persistent Organic Pollutants)**

Not listed on the POP list (Regulation EU 2019/1021)

**Ozone Regulation (1005/2009)**

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

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### Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

### Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

### 15.1.2. National regulations

#### Germany

Water hazard class (WGK) : WGK 1, Slightly hazardous to water (Classification according to VwVwS, Annex 3; ID No. 3692).  
Hazardous Incident Ordinance (12. BImSchV) : Is not subject to the Hazardous Incident Ordinance (12. BImSchV)

#### Netherlands

SZW-lijst van kankerverwekkende stoffen : The substance is not listed  
SZW-lijst van mutagene stoffen : The substance is not listed  
SZW-lijst van reprotoxische stoffen – Borstvoeding : The substance is not listed  
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : The substance is not listed  
SZW-lijst van reprotoxische stoffen – Ontwikkeling : The substance is not listed

### 15.2. Chemical safety assessment

This substance is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

## SECTION 16: Other information

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Indication of changes			
Section	Changed item	Change	Comments
	Supersedes version of	Modified	
	Revision date	Modified	
	Issue date	Modified	
4.1	First-aid measures general	Modified	
7.2	Storage temperature	Added	
8.1	PNEC sediment (marine water)	Added	
8.1	PNEC sediment (freshwater)	Added	
8.1	PNEC aqua (marine water)	Added	
8.1	PNEC aqua (freshwater)	Added	
9.1	Vapour pressure at 50°C	Added	
9.1	Decomposition temperature	Added	
9.1	Colour	Added	
9.1	Viscosity, dynamic	Modified	
9.1	Relative density	Modified	
9.1	pH solution	Modified	
11.1	LD50 dermal	Added	



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Indication of changes			
Section	Changed item	Change	Comments
11.1	LC50 Inhalation - Rat	Added	
11.1	LD50 oral rat	Modified	
12.6	Adverse effects on the environment caused by endocrine disrupting properties	Added	

Data sources

: This MSDS has been established with data of MSDS coming from upstream suppliers.

Safety Data Sheet (SDS), EU