

Version: 1.1

Revision date: 08.08.2022

# **Safety Data Sheet**

according to Regulation (EC) No. 1907/2006 (REACH)

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

#### 1.1 Product identifier

Trade name/designation: Polysorbate 80, N.F. Multi-Compendial

Product No.: 4117

Index No.: 000-000-00-0 CAS No.: 9005-65-6

EU REACH No.: A registration number is not available for this substance as the

substance or its use is exempted from registration according to REACH Article 2 or the annual tonnage does not require a

registration.

Other means of identification: Polyoxyethylene-80-Sorbitan Monolaurate, Sorbitan

monooleate, ethoxylated

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

Relevant identified uses For Laboratory, Research or Manufacturing Use.

# 1.3 Details of the supplier of the safety data sheet

#### Supplier

#### Avantor Performance Materials Poland S.A.

Street Sowinskiego 11str.

Postal code/City 44-101 Gliwice
Telephone 48 32 239-20-00
Telefax 48 32 239-23-70

E-mail (competent person) SDS@avantorsciences.com

# Distributor

VWR International Ltd.

Street Hunter Boulevard, Magna Park

Postal code/City Lutterworth, LE17 4XN

#### 1.4 Emergency phone number

Telephone +44 (0) 1270 502894 (CareChem24)

# **SECTION 2: Hazard identification**



#### 2.1 Classification of the substance or mixture

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

The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

#### 2.2 Label elements

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

According to EC directives or the corresponding national regulations the product does not have to be labelled.

#### 2.3. Other hazards

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

# **SECTION 3: Composition / information on ingredients**

#### **Substances**

Substance name: Polysorbate 80

Molecular formula:

Molecular weight: no data available

CAS No.: 9005-65-6

EU REACH registration No.: A registration number is not available for this substance as the

substance or its use is exempted from registration according to REACH Article 2 or the annual tonnage does not require a

registration.

EC No. 500-019-9

ATE, SCL and/or M-factor: none

# **SECTION 4: First aid measures**

# 4.1 Description of first aid measures

# **General information**

When in doubt or if symptoms are observed, get medical advice. If unconscious but breathing normally, place in recovery position and seek medical advice. Never give anything by mouth to an unconscious person or a person with cramps. Change contaminated, saturated clothing. Do not leave affected person unattended.

#### After inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. In case of respiratory tract irritation, consult a physician.

#### In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. Remove contaminated, saturated clothing immediately. In case of skin reactions, consult a physician.

#### After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye. Remove contact lenses, if present and easy to do. Continue rinsing.

#### In case of ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do NOT induce vomiting. Give nothing to eat or drink.



#### Self-protection of the first aider

First aider: Pay attention to self-protection!

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

no data available

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

no data available

# **SECTION 5: Firefighting measures**

# 5.1 Extinguishing media

#### Suitable extinguishing media

The product itself does not burn.

Co-ordinate fire-fighting measures to the fire surroundings.

#### Extinguishing media which must not be used for safety reasons

no restriction

# 5.2 Special hazards arising from the substance or mixture

In case of fire may be liberated:

Pyrolysis products, toxic

#### 5.3 Advice for firefighters

DO NOT fight fire when fire reaches explosives.

Special protective equipment for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

#### 5.4 Additional information

Do not allow run-off from fire-fighting to enter drains or water courses.

Do not inhale explosion and combustion gases.

Use water spray jet to protect personnel and to cool endangered containers.

In case of fire: Evacuate area.

# **SECTION 6: Accidental release measures**

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

In case of major fire and large quantities: Remove persons to safety.

# 6.2 Environmental precautions

Discharge into the environment must be avoided.

# 6.3 Methods and material for containment and cleaning up

Spilled product must never be returned to the original container for recycling. Collect in closed and suitable containers for disposal.

#### 6.4 Additional information

Clear spills immediately.



# **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

All work processes must always be designed so that the following is as low as possible:

Inhalation

skin contact

Eye contact

Use extractor hood (laboratory).

If handled uncovered, arrangements with local exhaust ventilation have to be used.

If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means.

Wash hands before breaks and after work. Avoid contact with eyes and skin. When using do not eat, drink or smoke. Provide eye shower and label its location conspicuously.

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

Recommended storage temperature: no data available

Keep container tightly closed and in a well-ventilated place. Keep/Store only in original container.

#### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

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

#### 8.1 Control parameters

Does not contain substances above concentration limits fixing an occupational exposure limit.

#### 8.2 Exposure controls

# Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment. If handled uncovered, arrangements with local exhaust ventilation have to be used.

# Personal protection equipment

Wear suitable protective clothing. When handling with chemical substances, protective clothing with CE-labels including the four control digits must be worn.

# Eye/face protection

Eye glasses with side protection DIN-/EN-Norms DIN EN 166

#### Skin protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. Recommended glove articles DIN-/EN-Norms EN ISO 374 In the case of wanting to use the gloves again, clean them before taking off and air them well.



#### By short-term hand contact

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material: 0,12 mm
Breakthrough time: > 480 min

# By long-term hand contact

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material: 0,38 mm
Breakthrough time: > 480 min

#### Respiratory protection

Usually no personal respirative protection necessary.

Suitable respiratory protection apparatus: no data available Recommendation no data available suitable material no data available Recommendation no data available no data available

#### Additional information

Wash hands before breaks and after work. Avoid contact with eyes and skin. When using do not eat, drink or smoke. Provide eye shower and label its location conspicuously.

# Environmental exposure controls

no data available



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

# 9.1 Information on basic physical and chemical properties

(a) Appearance

Physical state: liquid
Colour: dark yellow
(b) Odour: no data available
(c) Odour threshold: no data available

#### Safety relevant basic data

(d) pH: 5-7 (50 g/l; H2O; 20 °C)

(e) Melting point/freezing point: -21 °C

(f) Initial boiling point and boiling range:

(g) Flash point:

(h) Evaporation rate:

(i) Flammability (solid, gas):

100 °C (1013 hPa)

149 °C (closed cup)

no data available

not applicable

(j) Flammability or explosive limits

Lower explosion limit:

Upper explosion limit:

(k) Vapour pressure:

(l) Vapour density:

(m) Density:

no data available

1.33 hPa (20 °C)

no data available

1.062 g/cm³ (20 °C)

(n) Solubility(ies)

Water solubility: soluble (20 °C)
(o) Partition coefficient: n-octanol/water: no data available

(p) Auto-ignition temperature: 180 °C

(q) Decomposition temperature: not applicable

(r) Viscosity

Kinematic viscosity: 300-500 cSt (20°C)
Dynamic viscosity: no data available
(s) Explosive properties: not applicable
(t) Oxidising properties: not applicable

(u) Particle characteristics does not apply to liquids

# 9.2 Other information

Bulk density:

Refraction index:

Dissociation constant:

Surface tension:

Henry's Law Constant:

no data available
no data available
no data available
no data available

# **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

no data available

#### 10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

#### 10.3 Possibility of hazardous reactions

no data available



#### 10.4 Conditions to avoid

no data available

# 10.5 Incompatible materials

no data available

#### 10.6 Hazardous decomposition products

no data available

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

#### **Acute effects**

Acute oral toxicity:

LD50: 34500 µL/kg - Rat - (National Library of Medicine ChemID Plus (NLM CIP))

Acute dermal toxicity:

no data available

Acute inhalation toxicity:

no data available

#### Irritant and corrosive effects

Primary irritation to the skin:

not applicable

Irritation to eyes:

not applicable

Irritation to respiratory tract:

not applicable

# Respiratory or skin sensitisation

In case of skin contact: not sensitising

After inhalation: not sensitising

#### STOT-single exposure

not applicable

# STOT-repeated exposure

not applicable

# CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity

No indication of human carcinogenicity.

#### Germ cell mutagenicity

No indications of human germ cell mutagenicity exist.

#### Reproductive toxicity

No indications of human reproductive toxicity exist.

#### **Aspiration hazard**

not applicable



#### Other adverse effects

no data available

# **SECTION 12: Ecological information**

#### 12.1 Ecotoxicity

#### Fish toxicity:

no data available

#### Daphnia toxicity:

no data available

#### Algae toxicity:

no data available

#### **Bacteria toxicity:**

no data available

# 12.2 Persistence and degradability

no data available

#### 12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water: no data available

#### 12.4 Mobility in soil:

no data available

#### 12.5 Results of PBT/vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

#### 12.6 Other adverse effects

no data available

# **SECTION 13: Disposal considerations**

# 13.1 Waste treatment methods

#### Appropriate disposal / Product

Dispose according to local legislation. Consult the appropriate local waste disposal expert about waste disposal.

#### Appropriate disposal / Package

Dispose according to local legislation. Handle contaminated packages in the same way as the substance itself.

# **SECTION 14: Transport information**

# Land transport (ADR/RID)

No dangerous good in sense of this transport regulation.



# Sea transport (IMDG)

No dangerous good in sense of this transport regulation.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code not relevant

#### Air transport (ICAO-TI / IATA-DGR)

No dangerous good in sense of this transport regulation.

# **SECTION 15: Regulatory information**

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

#### **EU** legislation

- Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (Text with EEA relevance)
- 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 (Text with EEA relevance)
- Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (Text with EEA relevance)
- Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

# **National regulations**

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Water hazard class: slightly hazardous to water

#### 15.2 Chemical Safety Assessment

For this substance a chemical safety assessment has not been carried out.



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

# Abbreviations and acronyms

ACGIH - American Conference of Governmental Industrial Hygiensts

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road

AGS - Committee on Hazardous Substances (Ausschuss für Gefahrstoffe)

CLP - Regulation on Classification, Labelling and Packaging of Substances and Mixtures

DFG - German Research Foundation (Deutsche Forschungsgemeinschaft)

**DNEL - Derived No Effect Level** 

Gestis - Information system on hazardous substances of the German Social Accident Insurance (Gefahrstoffinformationssystem der Deutschen Gesetzlichen Unfallversicherung)

IATA-DGR - International Air Transport Association-Dangerous Goods Regulations

ICAO-TI - International Civil Aviation Organization-Technical Instructions

IMDG - International Maritime Code for Dangerous Goods

KOSHA - Korea Occupational Safety and Health Agency

LTV - Long Term Value

NIOSH - National Institute for Occupational Safety and Health

OSHA - Occupational Safety & Health Administration

PBT - Persistent, Bioaccumulative and Toxic

PNEC - Predicted No Effect Concentration

RID - Regulation concerning the International Carriage of Dangerous Goods by Rail

STV - Short Term Value

SVHC - Substances of Very High Concern

vPvB - very Persistent, very Bioaccumulative

#### Key literature references and sources for data

This Safety Data Sheet has been prepared based on information available for public as TOXNET information, European Chemicals Agency (ECHA) substance dossier, papers from international cancer research institutes (IARC Monographs), U.S. National Toxicology Program data, U.S. Agency for Toxic Substances and Disease Control (ATSDR), PubChem websites and SDS from our raw material manufacturers.

# **Additional information**

Indication of changes: Section 3

If you need an explanation of the change, contact the supplier (SDS@avantorsciences.com).



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