

# Safety Data Sheet

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

## SECTION 1: Identification

### Product identifier

Trade name/designation:	Polysorbate 80, N.F. Multi-Compendial
Product No.:	4117
Synonyms:	none

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

<b>Recommended Use</b>	For Laboratory, Research or Manufacturing Use.
<b>Uses advised against</b>	Not determined.

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

#### Supplier

##### Avantor Performance Materials, LLC.

Street	100 Matsonford Rd, Suite 200
Postal code/City	Radnor, PA 19087, United States
Telephone	+1-855-282-6867
Telefax:	+1-610-573-2610

#### Emergency phone number

Telephone	+1-800-424-9300 (Chemtrec, 24 hrs/day, 7 days/week, USA and Canada)
-----------	---

#### Preparation Information

Product Information Compliance

E-mail	SDS@avantorsciences.com
--------	-------------------------

## SECTION 2: Hazard identification

### Classification of the substance or mixture

This substance is classified as not hazardous according to regulation 29 CFR 1910.1200 (OSHA HCS).

### Label elements

According to regulation 29 CFR 1910.1200 (OSHA HCS) the product does not have to be labelled.

### Hazard(s) not otherwise classified (HNOC)

none

### SECTION 3: Composition / information on ingredients

#### Substances

Substance name	Polysorbate 80
Molecular formula	—
Molecular weight	no data available
CAS No.	9005-65-6

### SECTION 4: 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.

#### In case of 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.

#### Most important symptoms/effects, acute and delayed

no data available

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

no data available

### SECTION 5: Fire fighting measures

#### 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

#### Specific hazards arising from the chemical

In case of fire may be liberated:

Pyrolysis products, toxic

#### Advice for firefighters

DO NOT fight fire when fire reaches explosives.

Protective equipment and precautions for firefighters  
Wear a self-contained breathing apparatus and chemical protective clothing.

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

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

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

### **Environmental precautions**

Discharge into the environment must be avoided.

### **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.

### **Additional information**

Clear spills immediately.

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

### **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.

### **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.

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

### **Control parameters**

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

### **Engineering 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 (PPE)**

Wear suitable protective clothing. When handling with chemical substances, protective clothing must be worn.

#### *Eye/face protection*

Eye glasses with side protection

#### *Skin protection*

Wear suitable gloves. When handling with chemical substances, protective gloves must be worn. In the case of wanting to use the gloves again, clean them before taking off and air them well. Check leak tightness/impermeability prior to use.

#### 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.

#### *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

### Information on basic physical and chemical properties

- |                     |                   |
|---------------------|-------------------|
| (a) Appearance      |                   |
| Physical state:     | liquid            |
| Color:              | dark yellow       |
| (b) Odor:           | no data available |
| (c) Odor threshold: | no data available |

### Safety relevant basic data

- |  |                                       |
|--|---------------------------------------|
| (d) pH:                                      | 5-7 (50 g/l; H <sub>2</sub> O; 20 °C) |
| (e) Melting point/freezing point:            | -21 °C                                |
| (f) Initial boiling point and boiling range: | 100 °C (1013 hPa)                     |
| (g) Flash point:                             | 149 °C (closed cup)                   |
| (h) Evaporation rate:                        | no data available                     |
| (i) Flammability (solid, gas):               | not applicable                        |
| (j) Flammability or explosive limits         |                                       |
| Lower explosion limit:                       | no data available                     |
| Upper explosion limit:                       | no data available                     |
| (k) Vapor pressure:                          | 1.33 hPa (20 °C)                      |
| (l) Vapor density:                           | no data available                     |
| (m) Density:                                 | 1.062 g/cm <sup>3</sup> (20 °C)       |
| (n) Solubility(ies)                          |                                       |
| Water solubility:                            | soluble (20 °C)                       |
| Soluble (g/L) in Ethanol:                    | no data available                     |
| (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                        |

### Other information

- |                        |                   |
|------------------------|-------------------|
| Bulk density:          | no data available |
| Refraction index:      | no data available |
| Dissociation constant: | no data available |
| Surface tension:       | no data available |
| Henry's Law Constant:  | no data available |

## SECTION 10: Stability and reactivity

### Reactivity

no data available

### Chemical stability

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

**Possibility of hazardous reactions**

no data available

**Conditions to avoid**

no data available

**Incompatible materials**

no data available

**Hazardous decomposition products**

no data available

**SECTION 11: Toxicological information****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 sensitization**

In case of skin contact: not sensitizing

In case of inhalation: not sensitizing

**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****Ecotoxicity****Fish toxicity:**

no data available

**Daphnia toxicity:**

no data available

**Algae toxicity:**

no data available

**Bacteria toxicity:**

no data available

**Persistence and degradability**

no data available

**Bioaccumulative potential**

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

**Mobility in soil:**

no data available

**Other adverse effects**

no data available

**SECTION 13: Disposal considerations****Waste treatment methods****Appropriate disposal / Product**

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

**Appropriate disposal / Package**

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

**SECTION 14: Transport information****Land transport (DOT)**

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.

<b>SECTION 15: Regulatory information</b>
---

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

**National regulations**

**Toxic Substances Control Act (TSCA)**

Listed

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

**SARA 313 Components**

Not listed.

**Massachusetts Right To Know Components**

Not listed.

**Pennsylvania Right To Know Components**

Not listed.

**New Jersey Right To Know Components**

Not listed.

**California Prop. 65 Components**

Not listed.



## SECTION 16: Other information

### Abbreviations and acronyms

ACGIH - American Conference of Governmental Industrial Hygienists  
DOT - Department of Transportation  
IARC - International Agency for Research on Cancer  
IATA-DGR - International Air Transport Association-Dangerous Goods Regulations  
ICAO-TI - International Civil Aviation Organization-Technical Instructions  
IMDG - International Maritime Code for Dangerous Goods  
LTV - Long Term Value  
NIOSH - National Institute for Occupational Safety and Health  
NTP - National Toxicology Program  
OSHA - Occupational Safety & Health Administration  
PBT - Persistent, Bioaccumulative and Toxic  
PEL - Permissible Exposure Limit  
STV - Short Term Value  
SVHC - Substances of Very High Concern  
TDG - Transport of Dangerous Goods  
TLV - Threshold Limit Value  
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.

**Revision date**  
08.08.2022

**Version**  
1.1

**Print date**  
2022-08-08

### Additional information

Indication of changes:

Section 3

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

### Disclaimer

The information provided in this Safety Data Sheet (SDS) was prepared based on data believed to be accurate as of the date of this SDS. TO THE GREATEST EXTENT PERMITTED BY LAW, AVANTOR PERFORMANCE MATERIALS ("AVANTOR") EXPRESSLY DISCLAIMS ANY AND ALL REPRESENTATIONS AND WARRANTIES REGARDING THE INFORMATION CONTAINED HEREIN INCLUDING, WITHOUT LIMITATION, AS TO ACCURACY, COMPLETENESS, FITNESS FOR PURPOSE OR USE, MERCHANTABILITY, NON-INFRINGEMENT, PERFORMANCE, SAFETY, SUITABILITY AND STABILITY. This SDS is intended as a guide to the appropriate use, handling, storage and disposal of the product to which it relates by properly trained personnel, and is not intended to be comprehensive. Users of Avantor's products are advised to perform their own tests and to exercise their own judgment to determine the safety, suitability and appropriate use, handling, storage and disposal of each product and product combination for their own purposes and uses. TO THE GREATEST EXTENT PERMITTED BY LAW, AVANTOR DISCLAIMS LIABILITY FOR, AND BY USING AVANTOR'S PRODUCTS PURCHASER AGREES THAT UNDER NO CIRCUMSTANCES SHALL AVANTOR BE LIABLE FOR, SPECIAL, INDIRECT, INCIDENTAL, PUNITIVE OR CONSEQUENTIAL DAMAGES OF ANY TYPE OR KIND, INCLUDING WITHOUT LIMITATION, FOR LOSS OF PROFITS, REPUTATIONAL DAMAGE, PRODUCT RECALL OR BUSINESS INTERRUPTION.

