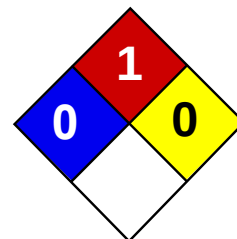




## Safety Data Sheet

### Polysorbate 60



#### Section 1: Chemical Product and Company Identification

**Product Name:** polysorbate 60

**Catalog Codes:** 287

**CAS#:** 9005-67-8

**RTECS:** -

**TSCA:** -

**Synonym:** -

**Chemical Name:** polysorbate 60

**Chemical Formula:** C<sub>64</sub>H<sub>126</sub>O<sub>26</sub>

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#### Section 2: Composition and Information on Ingredients

**Composition:**

| Name           | CAS #     | % by Weight |
|----------------|-----------|-------------|
| polysorbate 60 | 9005-67-8 | -           |

**Toxicological Data on Ingredients:**

#### Section 3: Hazards Identification

##### 3.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

### 3.2 Label elements

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

### 3.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## Section 4: First Aid Measures

### 4.1 Description of first-aid measures

#### If inhaled

After inhalation: fresh air

#### In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

#### In case of eye contact

After eye contact: rinse out with plenty of water. Remove contact lenses.

#### If swallowed

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

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

The most important known symptoms and effects are described in the labelling (see section 3.2) and/or in section 11

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

No data available

## Section 5: Fire and Explosion Data

### 5.1 Extinguishing media

#### Suitable extinguishing media

water Foam carbon dioxide (CO<sub>2</sub>) Dry powder

#### Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

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

Carbon oxides

Combustible.

Development of hazardous combustion gases or vapours possible in the event of fire.

### **5.3 Advice for firefighters**

In the event of fire, wear self-contained breathing apparatus.

### **5.4 Further information**

Prevent fire extinguishing water from contaminating surface water or the ground water system.

## **Section 6: Accidental Release Measures**

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

Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

### **6.2 Environmental precautions**

Do not let product enter drains.

### **6.3 Methods and materials for containment and cleaning up**

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb® ). Dispose of properly. Clean up affected area.

### **6.4 Reference to other sections**

For disposal see section 13.

## **Section 7: Handling and Storage**

### **7.1 Precautions for safe handling**

For precautions see section 3.2.

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

#### **Storage conditions**

Tightly closed. dry.

Recommended storage temperature see product label.

#### **Storage class**

Storage class (TRGS 510): 10: combustible solids

### **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**

**Ingredients with workplace control parameters**

### **8.2 Exposure controls**

**Personal protective equipment**

#### **Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

#### **Skin protection**

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)).

full contact

Material: nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: KCL 741 Dermatril® L

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)).

Splash contact

Material: nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: KCL 741 Dermatril® L

#### **Respiratory protection**

Not required; except in case of aerosol formation

#### **Control of environmental exposure**

No special precautionary measures necessary.

## Section 9: Physical and Chemical Properties

|                                                     |                                                                                  |
|-----------------------------------------------------|----------------------------------------------------------------------------------|
| <b>Physical state</b>                               | gel                                                                              |
| <b>Color</b>                                        | yellow                                                                           |
| <b>Odor</b>                                         | No data available                                                                |
| <b>pH</b>                                           | No data available                                                                |
| <b>Melting point/freezing point</b>                 | No data available                                                                |
| <b>Initial boiling point and boiling range</b>      | 100 °C                                                                           |
| <b>Flash point</b>                                  | > 113,00 °C - closed cup                                                         |
| <b>Decomposition temperature</b>                    | No data available                                                                |
| <b>Flammability (solid, gas)</b>                    | No data available                                                                |
| <b>Upper/lower flammability or explosive limits</b> | No data available                                                                |
| <b>Vapor pressure</b>                               | < 1 hPa at 20 °C                                                                 |
| <b>Density</b>                                      | 1,1 g/cm <sup>3</sup> at 20 °C                                                   |
| <b>Relative density</b>                             | No data available                                                                |
| <b>Water solubility</b>                             | No data available                                                                |
| <b>Partition coefficient: n-octanol/water</b>       | No data available                                                                |
| <b>Autoignition Temperature</b>                     | No data available                                                                |
| <b>Decomposition Temperature</b>                    | No data available                                                                |
| <b>Viscosity</b>                                    | Viscosity, kinematic: No data available<br>Viscosity, dynamic: No data available |
| <b>Relative vapor density</b>                       | No data available                                                                |
| <b>Explosive properties</b>                         | No data available                                                                |
| <b>Oxidizing properties</b>                         | None                                                                             |

**Other safety information**

No data available

**Section 10: Stability and Reactivity Data****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**

Violent reactions possible with:

Strong oxidizing agents.

**10.4 Conditions to avoid**

no information available

**10.5 Incompatible materials**

No data available

**10.6 Hazardous decomposition products**

In the event of fire: see section 5

**Section 11: Toxicological Information****11.1 Information on toxicological effects****Mixture****Acute toxicity**

LD50 Oral - Rat - &gt; 62.640 mg/kg

Inhalation: No data available

Dermal: No data available

LD50 Intravenous - Rat - 1.220 mg/kg

**Skin corrosion/irritation**

Remarks: No data available

**Serious eye damage/eye irritation**

Remarks: No data available

**Respiratory or skin sensitization**

No data available

**Germ cell mutagenicity**

No data available

**Carcinogenicity**

No data available

**Reproductive toxicity**

No data available

**Specific target organ toxicity - single exposure**

No data available

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available

**11.2 Additional Information**

No data available

**Section 12: Ecological Information**

**12.1 Toxicity**

Toxicity to fish

LC50 - *Oryzias latipes* - 240 mg/l - 48 h

**12.2 Persistence and degradability**

No data available

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**12.6 Endocrine disrupting properties**

**Product:**

No data available

**12.7 Other adverse effects**

No data available

### Section 13: Disposal Considerations

#### 13.1 Waste treatment methods

No data available

### Section 14: Transport Information

#### 14.1 UN number

ADR/RID: -

IMDG: -

IATA: -

#### 14.2 UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

#### 14.3 Transport hazard class(es)

ADR/RID: -

IMDG: -

IATA: -

#### 14.4 Packaging group

ADR/RID: -

IMDG: -

IATA: -

#### 14.5 Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

#### 14.6 Special precautions for user

No data available

#### Further information

Not classified as dangerous in the meaning of transport regulations.

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

Not applicable for product as supplied.

## Section 15: Other Regulatory Information

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

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

### 15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

## Section 16: Other Information

**References:** Not available

**Other Special Considerations:** Not available

**Created:** /08/2025

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