

Trade name: Polyethylenglykol 400/Sigma-Aldrich Gm

Substance number: 715700

Version: 1 / CH

Date revised: 02.09.2024

Replaces Version: - / CH

Print date: 02.09.24

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

### **1.1. Product identifier**

Polyethylenglykol 400/Sigma-Aldrich Gm

Item No. 71570006

#### **Substance / product identification**

INCI PEG-8

CAS-No. 25322-68-3

EINECS-No. 500-038-2

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

#### **Use of the substance/preparation**

Manufacture of cosmetics, industry, pharmacy

### **1.3. Details of the supplier of the safety data sheet**

#### **Address/Manufacturer**

Hänseler AG

Industriestrasse 35

9100 Herisau

Telephone no. 0041 (0)71 353 58 58

E-mail address of sdb@haenseler.ch

person responsible  
for this SDS

### **1.4. Emergency telephone number**

Switzerland :145 / Abroad +41 (0)44 251 51 51

## **SECTION 2: Hazards identification**

### **2.1. Classification of the substance or mixture**

Voluntary product information following the Safety Data Sheet format

This product is not classified hazardous in accordance with Regulation (EC) No 1272/2008.

### **2.2. Label elements**

#### **Labelling according to regulation (EC) No 1272/2008**

The product does not require a hazard warning label in accordance with Regulation (EC) No 1272/2008.

### **2.3. Other hazards**

No special hazards have to be mentioned.

The Substance does not meet PBT-criteria. This substance does not meet the vPvB-criteria. This substance does not have endocrine disrupting properties with respect to humans. This substance does not have endocrine disrupting properties with respect to non-target organisms.

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

### **3.1. Substances**

#### **Further ingredients**

##### **Polyethyleneglycols (PEG)**

CAS No. 25322-68-3

EINECS no. 500-038-2

Concentration &gt;= 95 %

Advice: [4]

Trade name: Polyethylenglykol 400/Sigma-Aldrich Gm

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**Note**

[4] Voluntary information

## **SECTION 4: First aid measures**

### **4.1. Description of first aid measures**

#### **General information**

Take off contaminated clothing and shoes immediately.

#### **After inhalation**

Remove the casualty into fresh air and keep him calm. Seek medical advice immediately.

#### **After skin contact**

In case of contact with skin wash off with water.

#### **After eye contact**

In case of contact with eyes rinse thoroughly with water.

#### **After ingestion**

No special measures required.

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

#### **Hints for the physician / treatment**

Treat symptomatically

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

Water spray jet, Dry powder, Foam, Carbon dioxide

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

In case of fires, hazardous combustion gases are formed; Carbon monoxide (CO); Carbon dioxide (CO<sub>2</sub>)

### **5.3. Advice for firefighters**

#### **Special protective equipment for fire-fighting**

Use self-contained breathing apparatus.

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

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

Wear protective equipment

### **6.2. Environmental precautions**

Do not allow to enter drains or waterways.

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

Pick up with absorbent material (eg sand, kieselgur, acid binder, universal binder, sawdust). Flush away residues with water.

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

Information regarding Safe handling, see Section 7.

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

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

Trade name: Polyethylenglykol 400/Sigma-Aldrich Gm

Substance number: 715700

Version: 1 / CH

Date revised: 02.09.2024

Replaces Version: - / CH

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**Advice on safe handling**

No special measures necessary if stored and handled as prescribed.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep tightly closed in a dry and cool place. Keep container tightly closed in a well-ventilated place.

**Storage classes**

Storage class according to TRGS 510 10 Flammable liquids

**Further information on storage conditions**

Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from heat. Keep away from sources of ignition.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Exposure limit values****Polyethyleneglycols (PEG)**

List	SUVA	
Type	MAK	
Value	500	mg/m <sup>3</sup>
Pregnancy group: S; Remarks: SSc; KG		

**Derived No/Minimal Effect Levels (DNEL/DMEL)****Polyethyleneglycols (PEG)**

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	66.667	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	117.544	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	28.986	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	33.333	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	

Trade name: Polyethylenglykol 400/Sigma-Aldrich Gm

Substance number: 715700

Version: 1 / CH

Date revised: 02.09.2024

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Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	16.667	mg/kg/d

**Predicted No Effect Concentration (PNEC)****Polyethyleneglycols (PEG)**

Type of value	PNEC	
Type	Freshwater	
Concentration	0.016	mg/l

**8.2. Exposure controls****General protective and hygiene measures**

Wash hands and face before breaks and after work. Take off immediately all contaminated clothing.  
Wash contaminated clothing before reuse.

**Respiratory protection**

Provide good ventilation of working area (local exhaust ventilation if necessary). Full mask, filter A

**Hand protection**

Appropriate Material	Butyl rubber - Butyl
Material thickness	0.7 mm
Breakthrough time	480 min
Appropriate Material	nitrile rubber - NBR
Material thickness	0.4 mm
Breakthrough time	30 min

**Eye protection**

Safety glasses

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

<b>Physical state</b>	liquid
<b>Colour</b>	colourless
<b>Odour</b>	characteristic
<b>Freezing point</b>	
Value	appr. 6 °C
<b>Boiling point or initial boiling point and boiling range</b>	
Value	> 200 °C
<b>Flash point</b>	
Value	appr. 199 °C
<b>Ignition temperature</b>	
Value	360 °C
Method	DIN 51794
<b>Decomposition temperature</b>	
Value	360 °C
<b>pH value</b>	
Value	4.5 to 7
<b>Viscosity</b>	
<b>kinematic</b>	
Value	97 to 110 mm <sup>2</sup> /s

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Temperature 20 °C  
Method DIN 51562

**Solubility(ies)**

fat oils  
Remarks not determined

**Vapour pressure**

Value < 300 kPa  
Temperature 50 °C

**Density and/or relative density**

Value appr. 1.12  
Temperature 20 °C  
Remarks Relative Density according specification  
Value appr. 1.12 g/cm<sup>3</sup>  
Temperature 20 °C

**9.2. Other information****Solubility in water**

Remarks miscible

**Bulk density**

Remarks Not applicable

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No decomposition if stored and applied as directed.

**10.2. Chemical stability**

No decomposition if stored and applied as directed.

**10.3. Possibility of hazardous reactions**

No decomposition if stored and applied as directed.

**10.4. Conditions to avoid**

No decomposition if stored and applied as directed.

**10.5. Incompatible materials**

None known

**10.6. Hazardous decomposition products**

Carbon monoxide and carbon dioxide

**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity (Components)****Polyethyleneglycols (PEG)**

Species rat  
LD50 > 2000 mg/kg

**Acute dermal toxicity (Components)****Polyethyleneglycols (PEG)**

Remarks Not documented.

**Acute inhalative toxicity (Components)****Polyethyleneglycols (PEG)**

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Remarks Not documented.

**Skin corrosion/irritation (Components)****Polyethyleneglycols (PEG)**

evaluation non-irritant

**Serious eye damage/irritation (Components)****Polyethyleneglycols (PEG)**

evaluation non-irritant

**Sensitization (Components)****Polyethyleneglycols (PEG)**

Remarks No sensitisation effect known.

**Mutagenicity (Components)****Polyethyleneglycols (PEG)**

evaluation No mutagenicity in the Ames-test.

**11.2 Information on other hazards****Endocrine disrupting properties with respect to humans**

This substance does not have endocrine disrupting properties with respect to humans.

**SECTION 12: Ecological information****12.1. Toxicity****Fish toxicity (Components)****Polyethyleneglycols (PEG)**

Species	golden orfe ( <i>Leuciscus idus</i> )			
LC50	>	10		g/l
Duration of exposure		48	h	
Method	DIN 38412 T.15			

**Daphnia toxicity (Components)****Polyethyleneglycols (PEG)**

Remarks No data available.

**Bacteria toxicity (Components)****Polyethyleneglycols (PEG)**

EC0	>	12.5		mg/l
Duration of exposure		3	h	
Method	OECD 209			

**12.2. Persistence and degradability****Biodegradability (Components)****Polyethyleneglycols (PEG)**

Value	>	80		%
Duration of test		28	d	
evaluation	Readily biodegradable			
Method	OECD 301			

**Chemical oxygen demand (COD) (Components)****Polyethyleneglycols (PEG)**

Value		1740		mg/g
Method	DIN 38409 T. 41			

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

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**Results of PBT and vPvB assessment**

The Substance does not meet PBT-criteria.

This substance does not meet the vPvB-criteria.

**12.6 Endocrine disrupting properties****Endocrine disrupting properties with respect to the environment**

This substance does not have endocrine disrupting properties with respect to non-target organisms.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations for the product**

In accordance with regulations for special waste, must be taken to an authorised special waste disposal site or incineration plant.

**Disposal recommendations for packaging**

Packaging that cannot be cleaned should be disposed off as product waste.

**SECTION 14: Transport information**

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
14.1. UN number	The product does not constitute a hazardous substance in land transport.	The product does not constitute a hazardous substance in sea transport.	The product does not constitute a hazardous substance in air transport.

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Water Hazard Class (Germany)**

Water Hazard Class (Germany) WGK 1

Remarks Derivation of WGK according to Annex 1 No. 5.2 AwSV

**15.2. Chemical safety assessment**

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

**SECTION 16: Other information****Supplemental information**

Relevant changes compared with the previous version of the safety data sheet are marked with: \*\*\*

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.