

Trade name: Macrogolum 4000 pulvis

Substance number: 265830

Version: 5 / CH

Date revised: 19.06.2019

Replaces Version: 4 / CH

Print date: 19.06.19

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

### **1.1. Product identifier**

Macrogolum 4000 pulvis  
Item No. 26583000

#### **Registration no.**

CAS No. 25322-68-3

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

INCI PEG-90

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

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

Manufacture of cosmetics, Chemical for synthesis, Manufacture of pharmaceutical products

### **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  
person responsible sdb@haenseler.ch  
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.

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

### **3.1. Substances**

#### **Chemical characterization**

Polyethyleneglycols (PEG)

#### **Further ingredients**

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

CAS No. 25322-68-3

EINECS no. 500-038-2

Concentration >= 95 %

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Advice: [4]

**Note**

[4] Voluntary information

**Other information**

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

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

Remove contaminated, soaked clothing immediately and dispose of safely.

**After inhalation**

When dust is intensively inhaled, seek medical help immediately. Ensure supply of fresh air.

**After skin contact**

In case of contact with skin wash off with water.

**After eye contact**

Separate eyelids, wash the eyes thoroughly with water (15 min.).

**After ingestion**

Consult a physician if necessary.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Water spray jet, Dry powder

**Non suitable extinguishing media**

Full water jet, 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)

**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**

Ensure adequate ventilation. Avoid dust formation. 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 mechanically.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

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Avoid the formation and deposition of dust.

**Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking. The product is capable of dust explosions. Take action to prevent static discharges.

**Classification of fires / temperature class / Ignition group / Dust explosion class**

Dust explosion class Capable of dust explosion

**7.2. Conditions for safe storage, including any incompatibilities****Recommended storage temperature**

Value 10 - 25 °C

**Requirements for storage rooms and vessels**

Keep container tightly closed and dry.

**Storage classes**

Storage class according to TRGS 510	13	Non- combustible solids
Storage category (Switzerland)	NG	Other solid hazardous substances without hazardous classification/labelling

**Further information on storage conditions**

Keep container tightly closed and dry in a cool, well-ventilated place. Keep at temperature not exceeding 30 °C.

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

List	SUVA
Type	MAK
Value	1000 mg/m <sup>3</sup>
Pregnancy group: S; Status: 2017; Remarks: SSc	

**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>

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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	
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**

Preventative skin protection. Do not inhale dust/fumes/mist. General industrial hygiene practice.

**Respiratory protection**

Breathing apparatus in the event of aerosol. At intensive and longer exposition use self-contained breathing apparatus. Particle filter half mask, filter FFP2 - Norm DIN EN 149

**Hand protection**

Chemical resistant gloves

**Eye protection**

Safety glasses

**Body protection**

Clothing as usual in the chemical industry.

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

<b>Form</b>	Powder
<b>Colour</b>	white
<b>Odour</b>	odourless
<b>pH value</b>	
Value	5 to 7
Concentration/H <sub>2</sub> O	100 g/l
Temperature	20 °C
Method	DIN 19268

**Freezing point**

Value	53 to 58 °C
Method	European Pharmacopoeia / 2.2.18

**Initial boiling point and boiling range**

Remarks	not determined
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**Flash point**

Value	270	°C
Method	DIN 51376	

**Upper/lower flammability or explosive limits**

Remarks	Not applicable
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**Vapour pressure**

Value	< 0.01	hPa
Temperature	20	°C

**Density**

Value	appr. 1.2	g/cm <sup>3</sup>
Temperature	20	°C
Method	DIN 51757	

**Solubility in water**

Value	appr. 500	g/l
Temperature	20	°C

**Partition coefficient: n-octanol/water****Polyethyleneglycols (PEG)**

log Pow	< -1
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**Ignition temperature**

Value	> 320	°C
Method	DIN 51794	

**Decomposition temperature**

Value	360	°C
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**Viscosity****dynamic**

Value	110	to	145	mPa.s
Temperature	20	°C		
Method	DIN 53019			
Remarks	aqueous solution 50%			

**kinematic**

Value	100	to	132	mm <sup>2</sup> /s
Temperature	20	°C		
Method	DIN 51562			
Remarks	aqueous solution 50%			

**Efflux time**

Remarks	Not applicable
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**Oxidising properties**

Remarks	not determined
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**9.2. Other information****Bulk density**

Value	400	to	500	kg/m <sup>3</sup>
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**Other information**

Forms explosive mixture with air are possible.

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

No decomposition if stored and applied as directed.

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**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**

No hazardous reactions when stored and handled according to prescribed instructions.

**10.6. Hazardous decomposition products**

None under normal use.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute oral toxicity (Components)****Polyethyleneglycols (PEG)**

Species	rat		
LD50	>	2000	mg/kg

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

Reference substance	Polyethyleneglycols (PEG)
Species	rabbit
Method	OECD 404
Remarks	No effect of irritation known.

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

Reference substance	Polyethyleneglycols (PEG)
Species	rabbit
evaluation	non-irritant
Method	OECD 405
Remarks	No effect of irritation known

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

Reference substance	Polyethyleneglycols (PEG)
Species	guinea pig
evaluation	non-sensitizing
Method	OECD 406
Source	Literature value

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

Reference substance	Polyethyleneglycols (PEG)
evaluation	No mutagenicity in the Ames-test.
Method	OECD 471

**SECTION 12: Ecological information****12.1. Toxicity****Fish toxicity**

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**Polyethyleneglycols (PEG)**

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

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

Reference substance	Polyethyleneglycols (PEG)	
Species	<i>Daphnia magna</i>	
EC50	> 100	mg/l
Duration of exposure	48	h
Method	OECD 202	

**Algae toxicity****Polyethyleneglycols (PEG)**

Reference substance	Polyethyleneglycols (PEG)	
Species	<i>Scenedesmus subspicatus</i>	
EC50	> 100	mg/l
Duration of exposure	72	h

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

EC50	> 1.000	mg/l
Method	OECD 209	

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

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

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

Reference substance	Polyethyleneglycols (PEG)	
Value	> 95	%
Duration of test	23	d
Method	DIN 38412 T.24	

**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
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Method DIN 38409 T. 41

**12.3. Bioaccumulative potential****Partition coefficient: n-octanol/water****Polyethyleneglycols (PEG)**

log Pow &lt; -1

**12.5. Results of PBT and vPvB assessment****Evaluation of persistence and bioaccumulation potential**

The product contains no PBT or vPvB substances.

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

Disposal in compliance with local and national regulations.

**Disposal recommendations for packaging**

Disposal in compliance with local and national regulations.

**SECTION 14: Transport information**

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
<b>14.1. UN number</b>	Non-dangerous goods	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

**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.