

Trade name: Macrogolum 4000 Schuppen

Substance number: 265820

Version: 4 / CH

Date revised: 28.03.2024

Replaces Version: 3 / CH

Print date: 28.03.24

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

1.1. Product identifier

Macrogolum 4000 Schuppen
Item No. 26582000

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, 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
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.

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 >= 95 %

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Advice: [4]

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

When dust is intensively inhaled, seek medical help immediately.

After skin contact

In case of contact with skin wash off with water.

After eye contact

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of 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

Non suitable extinguishing media

Foam, Carbon dioxide, Full water jet

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. Use personal protective clothing.

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.

6.4. Reference to other sections

Information regarding Safe handling, see Section 7.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid the formation and deposition of dust.

Advice on protection against fire and explosion

Keep away from sources of ignition. Take action to prevent static discharges. Earthing necessary during loading operations. Dust can form an explosive mixture with air.

7.2. Conditions for safe storage, including any incompatibilities

Recommended storage temperature

Value	10	-	25	°C
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Storage classes

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

Further information on storage conditions

Keep containers tightly closed in a dry, cool and 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	500	mg/m ³
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 ³

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	

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Concentration	28.986	mg/m ³
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
Type of value	PNEC	
Type	Freshwater	
Conditions	Intermittent	
Concentration	0.159	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0.002	mg/l
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	77.063	mg/l
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	15.91	mg/kg
Type of value	PNEC	
Type	Marine sediment	
Concentration	15.91	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	4.423	mg/kg

8.2. Exposure controls

General protective and hygiene measures

Do not breathe dust. Avoid contact with skin and eyes. Observe the usual precautions for handling chemicals.

Respiratory protection

Provide good ventilation of working area (local exhaust ventilation if necessary). Dust mask; Particle filter half mask, filter P2

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Hand protection

The glove material must be sufficient impermeable and resistant to the substance. Check the tightness before wear. Gloves should be well cleaned before being removed, then stored in a well ventilated location.

Hand protection must comply with EN 374.

Eye protection

Safety glasses

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

Physical state	solid			
Colour	white			
Odour	characteristic			
Physical state	Flakes			
Freezing point				
Value	53	to	58	°C
Method	European Pharmacopoeia / 2.2.18			
Boiling point or initial boiling point and boiling range				
Remarks	not determined			
Flash point				
Value	270			°C
Method	DIN 51376			
Ignition temperature				
Value	> 320			°C
Method	DIN 51794			
Decomposition temperature				
Value	360			°C
pH value				
Value	5	to	7	
Concentration/H ₂ O	100	g/l		
Temperature	20	°C		
Method	DIN 19268			
Viscosity				
dynamic				
Value	110	to	145	mPa.s
Temperature	20	°C		
Method	DIN 53019			
Remarks	aqueous solution 50%			
kinematic				
Value	100	to	132	mm ² /s
Temperature	20	°C		
Method	DIN 51562			
Remarks	aqueous solution 50%			
Partition coefficient n-octanol/water (log value)				
log Pow	<	-1		
Vapour pressure				
Value	<	0.01		mbar
Temperature	20	°C		

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Density and/or relative density

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

9.2. Other information**Solubility in water**

Value	appr. 500			g/l
Temperature	20	°C		

Bulk density

Value	400	to	500	kg/m ³
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SECTION 10: Stability and reactivity**10.1. Reactivity**

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

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

No hazardous decomposition products known when handled according to prescribed instructions.

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

Polyethyleneglycols (PEG)

Species	rat			
LD50	>	15000		mg/kg

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

Remarks	Not documented.
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Acute inhalative toxicity (Components)**Polyethyleneglycols (PEG)**

Remarks	Not documented.
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Skin corrosion/irritation (Components)**Polyethyleneglycols (PEG)**

evaluation	non-irritant
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Serious eye damage/irritation (Components)

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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 (Leuciscus idus)	
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	

Polyethyleneglycols (PEG)

Species	activated sludge	
EC50	> 1000	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	

12.3. Bioaccumulative potential**General information**

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not determined

Partition coefficient n-octanol/water (log value)

log Pow < -1

12.5. Results of PBT and vPvB assessment**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 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.