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

1.1. Product identifier

Macrogolum 1000 (FLUKA)
Item No. 26572000

Substance / product identification

CAS-No. 25322-68-3
INCI PEG-20

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

Use of the substance/preparation

Manufacture of cosmetics, industry, Cosmetics, 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 for this SDS sdb@haenseler.ch

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

Chemical characterization

Polyethaleneglycols (PEG)

Further ingredients

Polyethyleneglycols (PEG)

CAS No. 25322-68-3
EINECS no. 500-038-2
Concentration >= 95 %

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

Take off contaminated clothing and shoes immediately. In case of persistent symptoms consult doctor.

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 warm water.

After eye contact

In case of contact with eyes rinse thoroughly with water.

After ingestion

Summon a doctor immediately.

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 (CO2)

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. Ensure adequate ventilation.

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. Dilute with plenty of 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

Advice on safe handling

Avoid the formation and deposition of dust. Provide good ventilation of working area (local exhaust ventilation if necessary).

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

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 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	500	mg/m³

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/m³

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/m³
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	Intermittend	
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

Exposure controls

Avoid inhalation of dusts.

General protective and hygiene measures

Observe the usual precautions for handling chemicals.

Respiratory protection

Breathing apparatus in the event of aerosol. Particle filter half mask, filter P3 - Norm NF EN 149

Hand protection

Chemical resistant gloves

Eye protection

Safety glasses

SECTION 9: Physical and chemical properties ***

9.1. Information on basic physical and chemical properties

Physical state	Waxy type				
Colour	white				
Odour	characteristic				
Freezing point					
Value		35	to	40	°C
Boiling point or initial boiling point and boiling range					
Remarks	not determined				
Upper and lower explosive limits					
Remarks	Not applicable				
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/H2O		100	g/l		
Temperature		20	°C		
Method	DIN 19268				
Viscosity					
dynamic					
Value		24	to	29	mPa.s
Temperature		20	°C		
Method	DIN 53019				
kinematic					
Value		22	to	27	mm²/s
Temperature		20	°C		
Method	DIN 51562				
Partition coefficient n-octanol/water (log value)					
log Pow	<	-1			
Vapour pressure					
Value	<	0.1			mbar
Temperature		20	°C		
Density and/or relative density					
Value	appr.	1.13			g/cm³
Temperature		20	°C		
Method	DIN 51757				

Value	appr.	1.11		g/cm³
Temperature		40	°C	
Method	DIN 51757			
Value	appr.	1.07		g/cm³
Temperature		80	°C	
Method	DIN 51757			

9.2. Other information

Solubility in water

Temperature		20	°C
Remarks	miscible		

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

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

10.6. Hazardous decomposition products

In the event of fire the following can be released: 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

Polyethyleneglycols (PEG)

Species	rat		
LD50	>	15000	mg/kg

Acute dermal toxicity (Components)

Polyethyleneglycols (PEG)

Remarks	Not documented.

Acute inhalative toxicity (Components)

Polyethyleneglycols (PEG)

Remarks	Not documented.

Skin corrosion/irritation

Species	rabbit
evaluation	non-irritant

Skin corrosion/irritation (Components)

Polyethyleneglycols (PEG)

evaluation	non-irritant

Serious eye damage/irritation

Species	rabbit eye
evaluation	non-irritant

Serious eye damage/irritation (Components)

Polyethyleneglycols (PEG)

evaluation	non-irritant

Sensitization

evaluation	non-sensitizing
Source	Literature value

Sensitization (Components)

Polyethyleneglycols (PEG)

Remarks	No sensitation effect known.

Mutagenicity

evaluation	No mutagenicity in the Ames-test.
Source	Literature value

Mutagenicity (Components)

Polyethyleneglycols (PEG)

evaluation	No mutagenicity in the Ames-test.

Reproductive toxicity

Remarks	not determined

Carcinogenicity

Remarks	not determined

Specific Target Organ Toxicity (STOT)

Remarks	not determined

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

Species	golden orfe (Leuciscus idus)		
LC50	>	10	g/l
Method	DIN 38412 T.15		

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

EC50	>	1000	mg/l
Method	OECD 209		

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

Value	>	80		%
Duration of test		28	d	
evaluation	good degradability			
Method	DIN 38409 T. 25			

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

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 envrionment

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, after pretreatment, 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

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.