

Trade name: Propylenglycolum

Substance number: 077100

Version: 5 / CH

Date revised: 30.10.2023

Replaces Version: 4 / CH

Print date: 30.10.23

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

1.1. Product identifier

Propylenglycolum

Item No. 07710000

Registration no.

EC No.: 200-338-0

Registration no. 01-2119456809-23

CAS No. 57-55-6

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

Use of the substance/preparation

industry, Cleaning agent, analytics, Manufacture of cosmetics, 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 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

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

Molecular weight

Value 76.11 g/mol

Further ingredients ***

Propane-1,2-diol

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EINECS no. 200-338-0

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Concentration >= 95 %
Advice: [4]

Note

[4] Voluntary information

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

Remove contaminated, soaked clothing immediately and dispose of safely. Adhere to personal protective measures when giving first aid. In all cases of doubt, or when symptoms persist, seek medical attention.

After inhalation

Ensure supply of fresh air. In the event of symptoms take medical treatment. If the patient is likely to become unconscious, place and transport in stable sideways position.

After skin contact

After contact with skin, wash immediately with plenty of water. Consult a doctor if skin irritation persists.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Remove contact lenses. Take medical treatment.

After ingestion

Do not induce vomiting. Never give anything by mouth to an unconscious person. If individual is drowsy or unconscious place in recovery position (on left side, with head down). Summon a doctor immediately. If swallowed, rinse mouth with water (only if the person is conscious).

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

Irritation of respiratory organs, CNS Disturbance, Causes very strong irritations of the eyes, skin and mucous membranes.

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

Carbon dioxide, Dry powder, Water spray jet, Extinguish greater fire with water spray or alcohol-resistant foam. Extinguishing measures to suit surroundings

5.2. Special hazards arising from the substance or mixture

In the event of fire the following can be released: Carbon monoxide (CO); Carbon dioxide (CO₂); Can build mixtures of gas and air which are capable of explosion.

5.3. Advice for firefighters**Special protective equipment for fire-fighting**

Use self-contained breathing apparatus. Do not inhale explosion and/or combustion gases. Use personal protective clothing.

Other information

Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

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Use breathing apparatus if exposed to vapours/dust/aerosol. Use personal protective clothing. Ensure adequate ventilation. Keep away unprotected persons.

6.2. Environmental precautions

Do not allow to enter drains or waterways. Advise water authority if spillage has entered water course or drainage system.

6.3. Methods and material for containment and cleaning up

Pick up with absorbent material (eg sand, kieselgur, acid binder, universal binder, sawdust). Take up mechanically and collect in suitable container for disposal.

6.4. Reference to other sections

Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Provide good ventilation of working area (local exhaust ventilation if necessary). Handle and open container with care.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take action to prevent static discharges.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep tightly closed in a dry and cool place.

Hints on storage assembly

Do not store together with: Metals, Do not store with combustible materials. Do not store with oxidizing agents.

Storage classes

Storage class according to TRGS 510 10 Flammable liquids

Further information on storage conditions

Protect from heat and direct sunlight.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Other information

Contains no substances with occupational exposure limit values.

Derived No/Minimal Effect Levels (DNEL/DMEL)

Propane-1,2-diol

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	50	mg/m ³

Type of value	Derived No Effect Level (DNEL)
Reference group	Worker
Duration of exposure	Long term
Route of exposure	inhalative

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Mode of action	Systemic effects	
Concentration	168	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	Local effects	
Concentration	10	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	10	mg/m ³

Predicted No Effect Concentration (PNEC)

Propane-1,2-diol

Type of value	PNEC	
Type	Soil	
Concentration	50	mg/kg
Type of value	PNEC	
Type	Saltwater	
Concentration	26	mg/l
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	20000	mg/l
Type of value	PNEC	
Type	Freshwater	
Concentration	260	mg/l
Type of value	PNEC	
Type	Marine sediment	
Concentration	57.2	mg/kg
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	572	mg/kg

8.2. Exposure controls

General protective and hygiene measures

Observe the usual precautions for handling chemicals.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. combination filter A-P2

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.

Appropriate Material	nitrile rubber - NBR
Material thickness	0.11

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Breakthrough time 480 min
Hand protection must comply with EN 374.

Eye protection

Safety glasses with side protection shield; Eye protection must comply with EN 166.

Body protection

protective overalls; Boots

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

Physical state	liquid	
Colour	colourless	
Odour	odourless	
Melting point		
Value	-60	°C
Boiling point or initial boiling point and boiling range		
Value	189	°C
Upper and lower explosive limits		
Lower explosion limit	2.6	%(V)
Upper explosion limit	12.6	%(V)
Flash point		
Value	104	°C
Ignition temperature		
Value	400	°C
Viscosity		
dynamic		
Value	58.1	mPa.s
Partition coefficient n-octanol/water (log value)		
log Pow	-0.92	
Vapour pressure		
Value	0.07	hPa
Density and/or relative density		
Value	1.0361	g/cm ³
Relative vapour density		
Value	2.62	

9.2. Other information**Solubility in water**

Remarks soluble

Other information

The product is not dangerous for explosions.

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

Violent reaction under influence of oxidising agents.

10.2. Chemical stability

No decomposition if stored and applied as directed.

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10.3. Possibility of hazardous reactions

Possible incompatibility with materials listed under section 10.5.

10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat. Heat. Flames. Sparks. Protect from sun.

10.5. Incompatible materials

Incompatible with: Strong oxidising agents

10.6. Hazardous decomposition products

Carbon monoxide and carbon dioxide, Toxic gases/vapours

SECTION 11: Toxicological information *****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity (Components)****Propane-1,2-diol**

Species	rat		
LD50		22000	mg/kg
Method	OECD 401		

Acute dermal toxicity (Components)**Propane-1,2-diol**

Species	rabbit		
LD50	>	2000	mg/kg
Duration of exposure		24	h
Method	OECD 402		

Acute inhalative toxicity (Components)**Propane-1,2-diol**

Species	rabbit		
LC50		317042	mg/m ³
Duration of exposure		2	h
Method	OECD 403		

Skin corrosion/irritation (Components)**Propane-1,2-diol**

evaluation	irritant effect possible
Method	OECD 404

Serious eye damage/irritation (Components)**Propane-1,2-diol**

evaluation	irritant effect possible
Method	OECD 405

Sensitization (Components)**Propane-1,2-diol**

Remarks	Based on available data, the classification criteria are not met.
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Subacute, subchronic, chronic toxicity (Components)**Propane-1,2-diol**

Remarks	No data available.
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Mutagenicity (Components)**Propane-1,2-diol**

Remarks	Based on available data, the classification criteria are not met.
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Reproduction toxicity (Components)

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Propane-1,2-diol

Remarks Based on available data, the classification criteria are not met.

Carcinogenicity (Components)**Propane-1,2-diol**

Remarks No data available.

Specific Target Organ Toxicity (STOT) (Components)**Propane-1,2-diol**

Remarks Based on available data, the classification criteria are not met.

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)****Propane-1,2-diol**

Species	rainbow trout (<i>Oncorhynchus mykiss</i>)	
LC50	40613	mg/l
Duration of exposure	96	h

Daphnia toxicity (Components)**Propane-1,2-diol**

Species	Ceriodaphnia dubia	
LC50	18340	mg/l
Duration of exposure	48	h
Method	static test	
Source	EPA 600/489/001	

Propane-1,2-diol

Species	Ceriodaphnia dubia	
NOEC	13020	mg/l
Duration of exposure	7	d
Method	US-EPA	

Algae toxicity (Components)**Propane-1,2-diol**

Species	Pseudokirchneriella subcapitata	
EC50	19000	mg/l
Duration of exposure	96	h
Method	OECD 201	

Bacteria toxicity (Components)**Propane-1,2-diol**

Species	Pseudomonas putida	
NOEC	> 20000	mg/l
Duration of exposure	18	h

12.2. Persistence and degradability**Physico-chemical eliminability (Components)****Propane-1,2-diol**

Remarks No data available.

Biodegradability

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evaluation Readily biodegradable

Biodegradability (Components)**Propane-1,2-diol**

Remarks The product is biodegradable.

Ready degradability (Components)**Propane-1,2-diol**

Remarks No data available.

12.3. Bioaccumulative potential**General information**

Not relevant

Partition coefficient n-octanol/water (log value)

log Pow -0.92

12.4. Mobility in soil**General information**

No data available

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

Not applicable

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.

12.7. Other adverse effects**General information / ecology**

In general not water hazardous.

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

EWC waste code No not dispose with rubbish.
Disposal in compliance with local and national regulations.

Disposal recommendations for packaging

Dispose of as unused product.

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.

