

### Polypropylenglykol 1000, for biochemistry

article number: 3602 date of compilation: 2022-01-18

Version: 1.0 en

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

#### 1.1 **Product identifier**

Identification of the substance **Polypropylenglykol** 1000, for biochemistry

3602 Article number

Registration number (REACH) The substance does not require registration ac-

cording to Regulation (EC) No 1907/2006 [REACH].

CAS number 25322-69-4

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

Relevant identified uses: Laboratory and analytical use

Laboratory chemical

Uses advised against: Do not use for products which come into contact

with foodstuffs. Do not use for private purposes

(household).

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

Carl Roth GmbH + Co KG Schoemperlenstr. 3-5 D-76185 Karlsruhe Germany

Telephone:+49 (0) 721 - 56 06 0 Telefax: +49 (0) 721 - 56 06 149 e-mail: sicherheit@carlroth.de Website: www.carlroth.de

Competent person responsible for the safety data :Department Health, Safety and Environment

e-mail (competent person): sicherheit@carlroth.de

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

Name	Street	Postal code/city	Telephone	Website
National Poisons Information Service City Hospital	Dudley Rd	B187QH Birmingham	844 892 0111	

#### **SECTION 2: Hazards identification**

#### Classification of the substance or mixture 2.1

# Classification according to Regulation (EC) No 1272/2008 (CLP)

This substance does not meet the criteria for classification in accordance with Regulation No 1272/ 2008/EC.

#### 2.2 **Label elements**

#### Labelling according to Regulation (EC) No 1272/2008 (CLP)

not required

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#### 2.3 Other hazards

# Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

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

#### 3.1 Substances

Name of substance Polypropylenglykol

CAS No 25322-69-4

# **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures



#### **General notes**

Take off contaminated clothing.

## Following inhalation

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

## **Following skin contact**

Rinse skin with water/shower. In all cases of doubt, or when symptoms persist, seek medical advice.

#### Following eye contact

Rinse cautiously with water for several minutes. In all cases of doubt, or when symptoms persist, seek medical advice.

#### Following ingestion

Rinse mouth. Call a doctor if you feel unwell.

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

Symptoms and effects are not known to date.

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

none

# **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media



#### Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings water spray, dry extinguishing powder, BC-powder, carbon dioxide (CO<sub>2</sub>)

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#### Unsuitable extinguishing media

water jet

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

Combustible.

#### **Hazardous combustion products**

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), May produce toxic fumes of carbon monoxide if burning.

### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

# **SECTION 6: Accidental release measures**

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



# For non-emergency personnel

No special measures are necessary.

#### **6.2** Environmental precautions

Keep away from drains, surface and ground water.

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

## Advice on how to contain a spill

Covering of drains.

#### Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

#### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

# **SECTION 7: Handling and storage**

# 7.1 Precautions for safe handling

Provision of sufficient ventilation.

#### Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs.

#### 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed.

#### **Incompatible substances or mixtures**

Observe hints for combined storage.

#### Consideration of other advice:

#### Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C

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#### 7.3 Specific end use(s)

No information available.

# **SECTION 8: Exposure controls/personal protection**

## 8.1 Control parameters

#### **National limit values**

# Occupational exposure limit values (Workplace Exposure Limits)

This information is not available.

#### **Human health values**

Relevant DN	Ls and other t	hreshold levels		
Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
DNEL	98 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
DNEL	13,9 mg/kg bw/ day	human, dermal	worker (industry)	chronic - systemic effects

#### **Environmental values**

# Relevant PNECs and other threshold levels

End- point	Threshold level	Organism	Environmental com- partment	Exposure time
PNEC	0,2 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	freshwater	short-term (single instance)
PNEC	0,02 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	marine water	short-term (single instance)
PNEC	100 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
PNEC	0,419 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	freshwater sediment	short-term (single instance)
PNEC	0,042 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	marine sediment	short-term (single instance)
PNEC	0,031 <sup>mg</sup> / <sub>kg</sub>	terrestrial organisms	soil	short-term (single instance)

#### 8.2 Exposure controls

Individual protection measures (personal protective equipment)

**Eye/face protection** 





Use safety goggle with side protection.

Skin protection





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#### hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374.

#### type of material

NBR (Nitrile rubber)

#### material thickness

>0,11 mm

#### · breakthrough times of the glove material

>480 minutes (permeation: level 6)

#### other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

#### **Respiratory protection**





Respiratory protection necessary at: Aerosol or mist formation. Type: A (against organic gases and vapours with a boiling point of > 65 °C , colour code: Brown).

## **Environmental exposure controls**

Keep away from drains, surface and ground water.

# SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Physical state liquid

Colour colourless

Odour faintly perceptible - characteristic

Melting point/freezing point not determined

Boiling point or initial boiling point and boiling 288 – 310 °C

range

Flammability this material is combustible, but will not ignite

readily

Lower and upper explosion limit not determined

Flash point >100 °C

Auto-ignition temperature not determined

Decomposition temperature >150 °C

pH (value) not determined (neutral) Kinematic viscosity  $135 - 155 \frac{mm^2}{s}$  at 25 °C

Solubility(ies)

Water solubility (partially soluble)

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Partition coefficient

Partition coefficient n-octanol/water (log value): this information is not available

Vapour pressure 1 hPa at 20 °C

Density and/or relative density

Density 1,004 <sup>g</sup>/<sub>cm³</sub> at 25 °C

Relative vapour density information on this property is not available

Particle characteristics not relevant (liquid)

Other safety parameters

Oxidising properties none

9.2 Other information

Information with regard to physical hazard

classes:

hazard classes acc. to GHS (physical hazards): not relevant

Other safety characteristics: There is no additional information.

# **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

This material is not reactive under normal ambient conditions.

#### If heated

Vapours may form explosive mixtures with air.

#### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

#### 10.3 Possibility of hazardous reactions

Violent reaction with: strong oxidiser

#### 10.4 Conditions to avoid

Keep away from heat. Decompostion takes place from temperatures above: >150 °C.

#### 10.5 Incompatible materials

There is no additional information.

#### 10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

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# **SECTION 11: Toxicological information**

## 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

### Classification according to GHS (1272/2008/EC, CLP)

This substance does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

#### **Acute toxicity**

Shall not be classified as acutely toxic.

Acute toxicity					
Exposure route	Endpoint	Value	Species	Method	Source
oral	LD50	>2.000 <sup>mg</sup> / <sub>kg</sub>	rat		ECHA
dermal	LD50	>2.000 <sup>mg</sup> / <sub>kg</sub>	rabbit		ECHA

#### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

#### Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

# Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

#### **Germ cell mutagenicity**

Shall not be classified as germ cell mutagenic.

#### Carcinogenicity

Shall not be classified as carcinogenic.

#### **Reproductive toxicity**

Shall not be classified as a reproductive toxicant.

#### Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

#### Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

#### **Aspiration hazard**

Shall not be classified as presenting an aspiration hazard.

# Symptoms related to the physical, chemical and toxicological characteristics

#### If swallowed

Data are not available.

# • If in eyes

Data are not available.

#### If inhaled

Data are not available.

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#### • If on skin

Data are not available.

#### Other information

Health effects are not known. This information is based upon the present state of our knowledge.

# 11.2 Endocrine disrupting properties

Not listed.

#### 11.3 Information on other hazards

There is no additional information.

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

Aquatic toxicity (acute)				
Endpoint	Value	Species	Source	Exposure time
LC50	>100 <sup>mg</sup> / <sub>I</sub>	fish	ECHA	96 h
EC50	105,8 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	ECHA	48 h
ErC50	>100 <sup>mg</sup> / <sub>I</sub>	algae	ECHA	72 h

Aquatic toxicity (ch	ronic)			
Endpoint	Value	Species	Source	Exposure time
EC50	>1.000 <sup>mg</sup> / <sub>l</sub>	microorganisms	ECHA	3 h

# **Biodegradation**

The substance is readily biodegradable.

#### 12.2 Process of degradability

Data are not available.

#### 12.3 Bioaccumulative potential

Data are not available.

#### 12.4 Mobility in soil

Data are not available.

### 12.5 Results of PBT and vPvB assessment

Data are not available.

#### 12.6 Endocrine disrupting properties

Not listed.

#### 12.7 Other adverse effects

Data are not available.

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# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods



Consult the appropriate local waste disposal expert about waste disposal.

#### Sewage disposal-relevant information

Do not empty into drains.

#### 13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. Waste catalogue ordinance (Germany).

#### 13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions.

# **SECTION 14: Transport information**

14.1	UN number or ID number	not subject to transport regulations

**14.2 UN proper shipping name** not assigned

**14.3 Transport hazard class(es)** none

**14.4 Packing group** not assigned

**14.5** Environmental hazards non-environmentally hazardous acc. to the dan-

gerous goods regulations

#### 14.6 Special precautions for user

There is no additional information.

# 14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

# 14.8 Information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - Additional information

Not subject to ADR, RID and ADN.

International Maritime Dangerous Goods Code (IMDG) - Additional information

Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Not subject to ICAO-IATA.

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# **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)

Restrictions according to REACH, Annex XVII

not listed

List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list

Not listed.

#### **Seveso Directive**

2012/	2012/18/EU (Seveso III)				
No	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the application of lower and upper-tier requirements	Notes		
	not assigned				

#### **Deco-Paint Directive**

VOC content	0 % , 0 <sup>g</sup> / <sub>I</sub>

#### **Industrial Emissions Directive (IED)**

VOC content	100 %
VOC content	1.010 <sup>g</sup> / <sub>l</sub>

Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

not listed

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

not listed

**Water Framework Directive (WFD)** 

not listed

Regulation on the marketing and use of explosives precursors

not listed

**Regulation on drug precursors** 

not listed

Regulation on substances that deplete the ozone layer (ODS)

not listed

Regulation concerning the export and import of hazardous chemicals (PIC)

not listed

Regulation on persistent organic pollutants (POP)

not listed

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#### Other information

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

#### **National inventories**

Country	Inventory	Status
AU	AICS	substance is listed
CA	DSL	substance is listed
CN	IECSC	substance is listed
EU	ECSI	substance is listed
EU	REACH Reg.	substance is listed
JP	CSCL-ENCS	substance is listed
KR	KECI	substance is listed
MX	INSQ	substance is listed
NZ	NZIoC	substance is listed
PH	PICCS	substance is listed
TR	CICR	substance is listed
TW	TCSI	substance is listed
US	TSCA	substance is listed

Legend

AICS CICR CSCL-ENCS DSL Australian Inventory of Chemical Substances

Chemical Inventory and Control Regulation List of Existing and New Chemical Substances (CSCL-ENCS) Domestic Substances List (DSL)

ECSI IECSC

EC Substance Inventory (EINECS, ELINCS, NLP)
Inventory of Existing Chemical Substances Produced or Imported in China
National Inventory of Chemical Substances

**INSQ** KECI Korea Existing Chemicals Inventory
NZIOC New Zealand Inventory of Chemicals
PICCS Philippine Inventory of Chemicals and Chemical Substances (PICCS)
REACH Reg. REACH registered substances

TCSI TSCA Taiwan Chemical Substance Inventory **Toxic Substance Control Act** 

#### 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance.

# SECTION 16: Other information

## Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de naviga- tion intérieures (European Agreement concerning the International Carriage of Dangerous Goods by In- land Waterways)
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)

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CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures  DGR Dangerous Goods Regulations (see IATA/DGR)  DNEL Derived No-Effect Level  ECSO Effective Concentration 50 %. The ECSO corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval  EINECS European Inventory of Existing Commercial Chemical Substances  ELINCS European List of Notified Chemical Substances  ELINCS European List of Notified Chemical Substances  ECSO ≡ ECSO: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbCS0) or growth rate (ErCS0) relative to the control  GHS "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations  IATA International Air Transport Association  IATA/DGR Dangerous Goods Regulations (DGR) for the air transport (IATA)  ICAO International Maritime Dangerous Goods Code  LCSO Lethal Concentration 50%: the LCSO corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval  LDSO Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval  NLP No-Longer Polymer  PBT Persistent, Bioaccumulative and Toxic  PNEC Predicted No-Effect Concentration  REACH Registration, Evaluation, Authorisation and Restriction of Chemicals  RID Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations Concerning the International carriage of Dangerous goods by Rail)  SVHC Substance of Very High Concern  VOC Volatile Organic Compounds  Very Persistent and very Bioaccumulative		
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ICAO  International Civil Aviation Organization  IMDG  International Maritime Dangerous Goods Code  LC50  Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval  LD50  Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval  NLP  No-Longer Polymer  PBT  Persistent, Bioaccumulative and Toxic  PNEC  Predicted No-Effect Concentration  REACH  Registration, Evaluation, Authorisation and Restriction of Chemicals  RID  Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)  SVHC  Substance of Very High Concern  VOC  Volatile Organic Compounds	IATA	International Air Transport Association
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PBT Persistent, Bioaccumulative and Toxic  PNEC Predicted No-Effect Concentration  REACH Registration, Evaluation, Authorisation and Restriction of Chemicals  RID Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)  SVHC Substance of Very High Concern  VOC Volatile Organic Compounds	LD50	
PNEC Predicted No-Effect Concentration  REACH Registration, Evaluation, Authorisation and Restriction of Chemicals  RID Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)  SVHC Substance of Very High Concern  VOC Volatile Organic Compounds	NLP	No-Longer Polymer
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals  RID Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)  SVHC Substance of Very High Concern  VOC Volatile Organic Compounds	PBT	Persistent, Bioaccumulative and Toxic
RID Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)  SVHC Substance of Very High Concern  VOC Volatile Organic Compounds	PNEC	Predicted No-Effect Concentration
tions concerning the International carriage of Dangerous goods by Rail)  SVHC Substance of Very High Concern  VOC Volatile Organic Compounds	REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
VOC Volatile Organic Compounds	RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
	SVHC	Substance of Very High Concern
vPvB Very Persistent and very Bioaccumulative	VOC	Volatile Organic Compounds
	vPvB	Very Persistent and very Bioaccumulative

# Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

#### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

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