



according to Regulation (EC) No 1907/2006

# Glycerin mind. 99 % zur Analyse, ACS, Reag. Ph. Eur.

Revision date: 28.07.2023

Product code: 19302

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

## 1.1. Product identifier

Glycerin mind. 99 % zur Analyse, ACS, Reag. Ph. Eur.

REACH Registration Number:	01-2119471987-18-XXXX
CAS No:	56-81-5
EC No:	200-289-5

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

### Use of the substance/mixture

### Laboratory chemicals

Industrial uses: Uses of substances as such or in preparations at industrial sites Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

### Uses advised against

Do not use for private purposes (household).

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

Company name:	AnalytiChem GmbH	
Street:	Stempelstraße 6	
Place:	D-47167 Duisburg	
Telephone:	0203/5194-0	Telefax: 0203/5194-290
E-mail:	info@analytichem.de	
Contact person:	Abteilung Produktsicherheit	Telephone:0203/5194-107/117
E-mail:	produktsicherheit@analytichem.de	
Internet:	www.analytichem.de	
Responsible Department:	Abteilung Produktsicherheit	
<u>1.4. Emergency telephone</u> number:	Exposure, or Accident Call CHEMTR	bus Goods] Incidents Spill, Leak, Fire, REC Day or Night Within USA and Canada: anada: +1 703-741-5970 (collect calls

## **Further Information**

No data available

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

### 2.1. Classification of the substance or mixture

## Regulation (EC) No 1272/2008

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

# 2.2. Label elements

# 2.3. Other hazards

No data available

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

# 3.1. Substances

Sum formula:	(HOCH2)2CHOH
Molecular weight:	92,1 g/mol



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### Hazardous components

CAS No	Chemical name	Chemical name				
	EC No	Index No	dex No REACH No			
	Classification (Regulation (EC) No	1272/2008)				
56-81-5	glycerol			100 %		
	200-289-5		01-2119471987-18-XXXX			

# Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE					
CAS No	EC No	Chemical name	Quantity		
	Specific Con	c. Limits, M-factors and ATE			
56-81-5	200-289-5	glycerol	100 %		
	oral: LD50 =	27 ma/ka			

#### **Further Information**

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

# **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

# **General information**

No data available

## After inhalation

Provide fresh air.

### After contact with skin

Wash immediately with: Water Take off immediately all contaminated clothing and wash it before reuse.

### After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing.

### After ingestion

Rinse mouth immediately and drink plenty of water. Call a doctor if you feel unwell.

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

Gastrointestinal complaints Cyanosis (blue coloured blood) Dizziness Vomiting Headache

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

No data available

# **SECTION 5: Firefighting measures**

# 5.1. Extinguishing media

# Suitable extinguishing media

Foam Carbon dioxide (CO2) Extinguishing powder Water



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# Unsuitable extinguishing media

no restriction

# 5.2. Special hazards arising from the substance or mixture

Combustible liquids Hazardous combustion products In case of fire may be liberated: Carbon dioxide (CO2) Carbon monoxide Acrolein In case of warming: Vapours are heavier than air, spread along floors and form explosive mixtures with air.

### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. In case of fire and/or explosion do not breathe fumes. Avoid contact with skin, eyes and clothes.

### Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Move undamaged containers from immediate hazard area if it can be done safely. Use water spray jet to protect personnel and to cool endangered containers.

### **SECTION 6: Accidental release measures**

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

# For non-emergency personnel

Provide adequate ventilation. Use personal protection equipment. Avoid contact with skin, eyes and clothes. Remove persons to safety. Emergency procedures Do not breathe dust/fume/gas/mist/vapours/spray.

## For emergency responders

Precautionary statements For emergency responders : Personal protection equipment: see section 8

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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

### For containment

Cover drains.

Prevent spread over a wide area (e.g. by containment or oil barriers). Collect in closed and suitable containers for disposal.

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

## For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

### Other information

Provide adequate ventilation. Do not breathe dust/fume/gas/mist/vapours/spray. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

## 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

## **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling



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## Advice on safe handling

Use personal protection equipment. Do not breathe gas/fumes/vapour/spray. Provide adequate ventilation.

## Advice on protection against fire and explosion

Usual measures for fire prevention. In case of warming: Vapours are heavier than air, spread along floors and form explosive mixtures with air.

Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs.

### Further information on handling

Take off immediately all contaminated clothing and wash it before reuse. Wash hands before breaks and after work.

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

### Requirements for storage rooms and vessels

Keep container tightly closed.

Hints on joint storage

No data available

## Further information on storage conditions

storage temperature +5°C - +30°C

### 7.3. Specific end use(s)

Laboratory chemicals

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

### 8.1. Control parameters

### **Occupational exposure limits**

CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
56-81-5	(OLD) Glycerol, mist	-	10		TWA (8 h)	

## **DNEL/DMEL** values

CAS No	Substance						
DNEL type		Exposure route	Effect	Value			
56-81-5	56-81-5 glycerol						
Worker DNEL, long-term   inhalation   local   56 mg/m³							
Consumer DNEL, long-term		inhalation	local	33 mg/m³			
Consumer DNEL, long-term		oral	systemic	229 mg/kg bw/day			



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### **PNEC** values

CAS No	Substance					
Environmen	Environmental compartment Value					
56-81-5	glycerol					
Freshwater		0,885 mg/l				
Freshwater (intermittent releases) 8,85 mg/l						
Marine wate	0,088 mg/l					
Freshwater	3,3 mg/kg					
Marine sediment 0,33						
Micro-organ	1000 mg/l					
Soil		0,141 mg/kg				

## 8.2. Exposure controls

# Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

### Individual protection measures, such as personal protective equipment

## Eye/face protection

goggles Face protection umbrella

### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):

By long-term hand contact Trade name/designation: KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11 mm Wearing time with permanent contact: > 480 min

By short-term hand contact Trade name/designation: KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11 mm Wearing time with occasional contact (splashes): > 480 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

## Skin protection

Take off immediately all contaminated clothing and wash it before reuse. Wash hands and face before breaks and after work and take a shower if necessary.

## **Respiratory protection**

Wear breathing apparatus if exposed to vapours/dusts/aerosols.



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# Filtering device with filter or ventilator filtering device of type: A-(P2)

## **Environmental exposure controls**

Do not allow to enter into surface water or drains.

## **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Physical state:	Liquid	
Colour:	colourless	
Odour:	characteristic	
Odour threshold:	No data available	
Melting point/freezing point:	18-20 °C	
Boiling point or initial boiling point and	290 °C	
boiling range:		
Flammability:	No data available	
Lower explosion limits:	2,7 vol. %	
Upper explosion limits:	11,3 vol. %	
Flash point:	180 °C	
Auto-ignition temperature:	370 °C	
Decomposition temperature:	>290 °C	
pH-Value (at 20 °C):	~5 (100 g/l)	
Viscosity / kinematic:	No data available	
-		
Water solubility:	Soluble in: Water	
Solubility in other solvents		
No data available		
Dissolution rate:	No data available	
Partition coefficient n-octanol/water:	log Pow: -1,75 (25 °C)	
Dispersion stability:	No data available	
Vapour pressure:	ca. 0 hPa	
(at 20 °C)		
Vapour pressure:	No data available	
Density:	1,26 g/cm <sup>3</sup>	
Relative density:	No data available	
Bulk density:	No data available	
Relative vapour density:	No data available	
Particle characteristics:	No data available	
9.2. Other information		
Information with regard to physical haz	ard classes	
Explosive properties		
In case of warming:		
	along floors and form explosive mixtures with air.	
Sustaining combustion:	No data available	
Self-ignition temperature		
Solid:	No data available	
Gas:	No data available	
Oxidizing properties		
No data available		
Other safety characteristics		
Evaporation rate:	No data available	
Solvent separation test:	No data available	
Solvent content:	No data available	
Solid content:	No data available	
Sublimation point:	No data available	



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 Softening point:
 No data available

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No data available No data available No data available 1.412 mPa·s

No data available

Pour point: Viscosity / dynamic:

(at 20 °C) Flow time:

# **Further Information**

No data available

## **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

In case of warming: Vapours may form explosive mixtures with air.

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

## 10.3. Possibility of hazardous reactions

Oxidising agent, strong peroxides, for example hydrogen peroxide Nitric acid sulphuric acid permanganates, e.g. potassium permanganate Fluorine Acetic anhydride Aniline

## 10.4. Conditions to avoid

Heat

### 10.5. Incompatible materials

No data available

# 10.6. Hazardous decomposition products

SECTION 5: Firefighting measures

### **Further information**

No data available

### **SECTION 11: Toxicological information**

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

## Toxicocinetics, metabolism and distribution

No data available

### Acute toxicity

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

CAS No	Chemical name	nemical name									
	Exposure route	Method									
56-81-5	glycerol										
	oral	LD50	27 mg/kg		50 1	Groups of rats were dosed orally and obs					

### Irritation and corrosivity

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



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## Sensitising effects

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

### Carcinogenic/mutagenic/toxic effects for reproduction

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

#### STOT-single exposure

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

#### STOT-repeated exposure

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

#### Aspiration hazard

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

## Information on likely routes of exposure

No data available

### Specific effects in experiment on an animal

No data available

## Additional information on tests

No data available

#### Practical experience No data available

#### 11.2. Information on other hazards

### Endocrine disrupting properties

No data available

Other information No data available

## Further information

Gastrointestinal complaints Cyanosis (blue coloured blood) Dizziness Vomiting Headache

## **SECTION 12: Ecological information**

## 12.1. Toxicity

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

CAS No	Chemical name									
	Aquatic toxicity	Dose	Dose		Species	Source	Method			
56-81-5	glycerol									
	Acute fish toxicity	LC50 mg/l	54000	96 h	Oncorhynchus mykiss	-	96-hr LC50 value in trout was determined			
	Acute crustacea toxicity	EC50 mg/l	1955	48 h	Daphnia magna	Study report (1978)	Followed the Methods for Acute Toxicity			

## 12.2. Persistence and degradability

63 %; 14 d

OECD 301C

Readily biodegradable (according to OECD criteria).

## 12.3. Bioaccumulative potential

No indication of bioaccumulation potential.



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## Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
56-81-5	glycerol	-1,75

## 12.4. Mobility in soil

No data available

## 12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

### 12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

### 12.7. Other adverse effects

Do not allow to enter into surface water or drains.

## Further information

Avoid release to the environment.

## **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

### **Disposal recommendations**

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Do not empty into drains.

### Contaminated packaging

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation.

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## **SECTION 14: Transport information**

### Land transport (ADR/RID)

14.1. UN number or ID nu	mber:
14.2. UN proper shipping	name:
14.3. Transport hazard cl	ass(es):
14.4. Packing group:	

Inland waterways transport (ADN)

14.1. UN number or ID number: 14.2. UN proper shipping name: 14.3. Transport hazard class(es):

14.4. Packing group:

### Marine transport (IMDG)

14.1. UN number or ID number:14.2. UN proper shipping name:14.3. Transport hazard class(es):14.4. Packing group:

## Air transport (ICAO-TI/IATA-DGR) <u>14.1. UN number or ID number:</u> <u>14.2. UN proper shipping name:</u> <u>14.3. Transport hazard class(es):</u> <u>14.4. Packing group:</u>

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

## 14.6. Special precautions for user

No dangerous good in sense of this transport regulation.



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# 14.7. Maritime transport in bulk according to IMO instruments

No dangerous good in sense of this transport regulation.

## **SECTION 15: Regulatory information**

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulatory information Information according to 2012/18/EU (SEVESO III):	Not subject to 2012/18/EU (SEVESO III)
National regulatory information	
Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).
Water hazard class (D):	1 - slightly hazardous to water

# **SECTION 16: Other information**

### Changes

This data sheet contains changes from the previous version in section(s): 12.

## **Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.