

# Safety data sheet

Page 1/7

according to 1907/2006/EC, Article 31

Printing date 28.04.2021 Revision: 28.04.2021 Version number 7.04

SECTION 1: Identification of the substance/r undertaking	mixture and of the company/
· 1.1 Product identifier	
· Trade name: <u>Glycerol</u>	
<ul> <li>Article number: 1339</li> <li>CAS Number: 56-81-5</li> <li>EC number: 200-289-5</li> <li>Application of the substance / the mixture Molecular biology Biochemistry</li> <li>Chemical for synthesis</li> <li>Cell culture</li> <li>Chemical analytics</li> <li>Laboratory chemicals</li> </ul>	
<ul> <li>1.3 Details of the supplier of the safety data sheet</li> <li>Manufacturer/Supplier: PANREAC QUIMICA S.L.U.</li> <li>C/Garraf 2</li> <li>Polígono Pla de la Bruguera</li> <li>E-08211 Castellar del Vallès (Barcelona)</li> </ul>	Tel. (+34) 937 489 400 Fax. (+34) 937 489 401 e-mail: product.safety@panreac.com
<ul> <li>Further information obtainable from: email: product.safety@</li> <li>1.4 Emergency telephone number: Single telephone number for emergency calls: 112 (EU) Tel.: (+34) 937 489 499</li> </ul>	)panreac.com
SECTION 2: Hazards identification	
<ul> <li>2.1 Classification of the substance or mixture</li> <li>Classification according to Regulation (EC) No 1272/2008</li> <li>The substance is not classified, according to the CLP regulation</li> </ul>	n.
2.2 Label elements     Labelling according to Regulation (EC) No 1272/2008 Void     Hazard pictograms Void     Signal word Void	

Signal word Void

- · Hazard statements Void
- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.

(Contd. on page 2)

<sup>-</sup> GB

· vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- · 3.1 Substances
- CAS No. Description
- 56-81-5 Glycerol
- · Identification number(s)
- EC number: 200-289-5

## **SECTION 4: First aid measures**

- · 4.1 Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately rinse with water.
  - If skin irritation continues, consult a doctor.
- After eye contact: Rinse opened eye for several minutes under running water. Seek medical treatment.
- After swallowing: Rinse out mouth. make victim drink water (maximum of 2 drinking glasses)
- If symptoms persist consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

## **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- Suitable extinguishing agents: Water, CO2, foam, powder.
- 5.2 Special hazards arising from the substance or mixture Formation of toxic gases is possible during heating or in case of fire. In case of fire, the following can be released: Carbon monoxide and carbon dioxide acrolein
   5.2 Advice for firefighters
- 5.3 Advice for firefighters
- Protective equipment: Wear self-contained respiratory protective device.
- Additional information Cool endangered receptacles with water spray. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
  - Contain escaping vapours with water.

# **SECTION 6: Accidental release measures**

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective clothing.
   Particular danger of slipping on leaked/spilled product.
   Do not inhale steams/aerosols.
- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Clean up affected area.

(Contd. on page 3)

(Contd. of page 1)

Page 2/7

GB -

Printing date 28.04.2021 Revision: 28.04.2021 Version number 7.04

Trade name: Glycerol

#### · 6.4 Reference to other sections

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

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

 • 7.1 Precautions for safe handling No special precautions are necessary if used correctly.
 • Information about fire - and explosion protection: Fumes can combine with air to form an explosive mixture.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

• Requirements to be met by storerooms and receptacles: No special requirements.

• Information about storage in one common storage facility: Store away from oxidising agents.

· Further information about storage conditions: Keep container sealed.

- · Recommended storage temperature: Room Temperature
- · Storage class: 10
- · 7.3 Specific end use(s) No further relevant information available.

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

- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace: 56-81-5 Glycerol WEL Long-term value: 10 mg/m<sup>3</sup> · DNELs Long-term - systemic effects, general population 229 mg/kg Oral Inhalative Long-term - local effects, worker 56 mg/m3 Long-term - local effects, general population 33 mg/m3 · PNECs 0.885 mg/L Aquatic compartment - freshwater Aquatic compartment - marine water 0.0885 mg/L Aquatic compartment - sediment in freshwater 3.3 mg/kg Aquatic compartment - sediment in marine water 0.33 mg/kg Sewage treatment plant 1000 mg/L Ground 0.141 mg/kg • Additional information: The lists valid during the making were used as basis. · 8.2 Exposure controls • Appropriate engineering controls No further data; see item 7. · Individual protection measures, such as personal protective equipment General protective and hygienic measures: Immediately remove all soiled and contaminated clothing Avoid close or long term contact with the skin. Avoid contact with the eyes. Do not inhale gases / fumes / aerosols. Wash hands before breaks and at the end of work. Use skin protection cream for skin protection. · Respiratory protection: Use suitable respiratory protective device only when aerosol or mist is formed. Filter A-(P2)

(Contd. on page 4)

Page 3/7

GB

(Contd. of page 3)
· Hand protection
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
· Material of gloves
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
· Penetration time of glove material
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
<ul> <li>For the permanent contact gloves made of the following materials are suitable: Nitrile rubber, NBR</li> </ul>
Recommended thickness of the material: $\geq$ 0.11 mm Value for the permeation: Level $\geq$ 480 min
• As protection from splashes gloves made of the following materials are suitable: Nitrile rubber, NBR
Recommended thickness of the material: $> 0.11$ mm
Value for the permeation: Level $\geq$ 480 min
• Eye/face protection Safety glasses
· Body protection:
Protective work clothing
Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazourdous substances handled.

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

9.1 Information on basic physical and chemic	al properties	
General Information		
· Physical state	Fluid	
· Colour:	Colourless	
· Odour:	Odourless	
<ul> <li>Odour threshold:</li> </ul>	Not determined.	
<ul> <li>Melting point/freezing point:</li> </ul>	18 °C	
Boiling point or initial boiling point and boilin	g	
range	290 °C	
Flammability	Not applicable.	
Lower and upper explosion limit		
· Lower:	2.6 Vol %	
· Upper:	11.3 Vol %	
· Flash point:	176 °C	
Auto-ignition temperature:	Not determined.	
· Decomposition temperature:	>290 °C	
· pH	5	
· Viscosity:		
· Kinematic viscosity	Not determined.	
· Dynamic at 20 °C:	1412 mPas	
Solubility		
water at 25 °C:	1000 g/l	
Partition coefficient n-octanol/water (log value	5	
· Vapour pressure at 20 °C:	<0.001 hPa	
Density and/or relative density		
· Density at 20 °C:	1.26 g/cm <sup>3</sup>	
· Relative density	Not determined.	
· Vapour density	Not determined.	
	(Contd	on page 5)
	(oonta:	pugo 0)

\_\_\_\_\_ GB -

	(Contd. of page
9.2 Other information	
Appearance:	
Form:	Viscous
Important information on protection of he	alth
and environment, and on safety.	
Ignition temperature:	429 °C
Explosive properties:	Product does not present an explosion hazard.
Change in condition	
Evaporation rate	Not determined.
Information with regard to physical ha	zard
classes	
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit	
flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

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

- · 10.1 Reactivity No further relevant information available.
- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: Heating.
- 10.3 Possibility of hazardous reactions Reacts violently with oxidising agents.
- 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials:

halogens strong acids Nitric acid sulfuric acid perchlorates nitriles strong oxidants

• **10.6 Hazardous decomposition products:** In the event of fire: See chapter 5

# **SECTION 11: Toxicological information**

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Based on available data, the classification criteria are not met.

#### LD/LC50 values relevant for classification:

· Compo	nents	Туре	Value	Species	
Oral	LD50	12600 mg/kg (rat)			
					(Contd. on page 6)

- GB

Printing date 28.04.2021 Revision: 28.04.2021 Version number 7.04

Page 6/7

(Contd. of page 5)

Trade name: Glycerol

#### Dermal LD50 18700 mg/kg (rabbit)

• Skin corrosion/irritation Based on available data, the classification criteria are not met.

• Serious eye damage/irritation Based on available data, the classification criteria are not met. • After inhalation: No irritant effect.

· Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

· Germ cell mutagenicity Based on available data, the classification criteria are not met.

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

 $\cdot$  Reproductive toxicity 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.
- 11.2 Information on other hazards

• Endocrine disrupting properties Substance is not listed.

#### **SECTION 12: Ecological information**

- · 12.1 Toxicity
- · Aquatic toxicity:

Type of test Effective concentration Method Assessment

EC50 2900 mg/l (Algae)

EC50/24 h >10000 mg/l (daphnia magna)

LC50/96 h >54000 mg/l (fish)

- **12.2 Persistence and degradability** No further relevant information available.
- · 12.3 Bioaccumulative potential -1.75 log Pow
- **12.4 Mobility in soil** No further relevant information available.
- 12.5 Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- 12.7 Other adverse effects
- · Additional ecological information:
- · General notes:

Do not allow product to reach ground water, water course or sewage system.

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water

#### **SECTION 13: Disposal considerations**

#### · 13.1 Waste treatment methods

· Recommendation

Chemicals must be disposed of in compliance with the respective national regulations.

- · Uncleaned packaging:
- · Recommendation:

Disposal must be made according to official regulations.

- Packagings that may not be cleansed are to be disposed of in the same manner as the product.
- Recommended cleansing agents: Water, if necessary together with cleansing agents.

## **SECTION 14: Transport information**

14.1 UN number or ID number
 ADR, ADN, IMDG, IATA

Void

(Contd. on page 7)

	(Contd. of page
<ul> <li>14.2 UN proper shipping name</li> <li>ADR, ADN, IMDG, IATA</li> </ul>	Void
· 14.3 Transport hazard class(es)	
· ADR, ADN, IMDG, IATA · Class	Void
<ul> <li>14.4 Packing group</li> <li>ADR, IMDG, IATA</li> </ul>	Void
· 14.5 Environmental hazards:	Not applicable.
· 14.6 Special precautions for user	Not applicable.
<ul> <li>14.7 Maritime transport in bulk accordi IMO instruments</li> </ul>	i <b>ng to</b> Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications
· UN "Model Regulation":	Void

## **SECTION 15: Regulatory information**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I Substance is not listed.
- · National regulations:
- · Other regulations, limitations and prohibitive regulations
- Substances of very high concern (SVHC) according to REACH, Article 57 Substance is not listed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

#### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods

- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- DNEL: Derived No-Effect Level (REACH)
- PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- SVHC: Substances of Very High Concern
- vPvB: very Persistent and very Bioaccumulative

#### \*\* Data compared to the previous version altered.

GB -