

# BIOCHEM - GLYCEROL (GLYCERINE) - ANALYTICAL REAGENT 20119

<ul> <li>1.1 Product identifier: BIOCHEM - GLYCEROL (GLYCERINE) - ANALYTICAL REAGENT 20119 Glycerol</li> <li>CAS: 56-81-5</li> <li>EC: 200-289-5</li> <li>Index: Non-applicable</li> <li>REACH: 01-2119471987-18-XXXX</li> <li>1.2 Relevant identifieet uses of the substance or mixture and uses advised against: Relevant uses: Laburatory. For professional user only. Uses advised against: All uses not specified in this section or in section 7.3</li> <li>1.3 Details of the sup: ro f the safety data sheet: SAS BIOCHEM CHEMOPHARMA FRANCE 82 Avenue du 85e de ligne 58200 COSNE SUR LOIRE - FRANCE Phone: +33386272496 admin@biochemopharma.fr</li> <li>1.4 Emergency telephone number: ORFILA (INRS) +33.1.45.42.59.59</li> </ul>	SEC	TION 1: IDENTIF	ICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
EC:       200-289-5         Index:       Non-applicable         REACH:       01-2119471987-18-XXXX         1.2       Relevant identified uses of the substance or mixture and uses advised against:         Relevant uses: Laboratory. For professional user only.       Uses advised against: All uses not specified in this section or in section 7.3         1.3       Details of the suplier of the safety data sheet:         SAS BIOCHEM CHEMOPHARMA FRANCE         82 Avenue du 85c de ligne         58200 COSNE SUR LOIRE - FRANCE         SAS BIOCHEM of the suplicable of the super stress of th	1.1	Product identifie	20119
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# SECTION 2: HAZARDS IDENTIFICATION

# 2.1 Classification of the substance or mixture: CLP Regulation (EC) No 1272/2008: The product is not classified as hazardous according to CLP Regulation (EC) No 1272/2008. 2.2 Label elements: CLP Regulation (EC) No 1272/2008: None 2.3 Other hazards: Product fails to meet PBT/vPvB criteria

# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

# 3.1 Substance:

Chemical description: Chemical substance

# Components:

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

Identification		Chemical name/Classification	Concentration
CAS: 56-81-5 EC: 200-289-5	Glycerol	Not classified	
Index: Non-applicable REACH01-2119471987-18- : XXXX	Regulation 1272/2008		100 %
To obtain more information	on on the hazards of	the substances consult sections 8, 11, 12, 15 and 16	

To obtain more information on the hazards of the substances consult sections 8, 11, 12, 15 and 16.

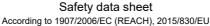
# 3.2 Mixture:

Non-applicable

# SECTION 4: FIRST AID MEASURES

# 4.1 Description of first aid measures:

Consult a doctor in case of discomfort showing the SDS for the product. **By inhalation:** 





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# SECTION 4: FIRST AID MEASURES (continued)

In case of symptoms, move the person affected into fresh air.

### By skin contact:

In case of contact it is recommended to clean the affected area thoroughly with water and neutral soap. In case of changes to the skin (stinging, redness, rashes, blisters,...), seek medical advice with this Safety data Sheet **By eye contact:** 

Rinse with water until the product has been eliminated. In case of problems, consult a doctor showing the SDS for the product.

### By ingestion/aspiration:

In case of consumption in large quantities, it is recommended to seek medical assistance.

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

Acute and delayed effects are indicated in sections 2 and 11.

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

Non-applicable

# SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media:

Product is non-flammable, with a low risk of fire due to the flammabliity characteristics of the product in normal conditions of storage, handling and use. In the case of the existence of sustained combustion as a result of improper handling, storage or use any type of extinguishing agent can be used (ABC Powder, water,...)

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

Due to its non-flammable nature, the product does not present a fire risk under normal conditions of storage, handling and use.

# 5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

### Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

# SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Isolate leaks provided that there is no additional risk for the people performing this task.

### 6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and ground water.

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

### It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

# 6.4 Reference to other sections:

See sections 8 and 13.

# SECTION 7: HANDLING AND STORAGE

## 7.1 Precautions for safe handling:

A.- Precautions for safe manipulation

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.



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# SECTION 7: HANDLING AND STORAGE (continued)

B.- Technical recommendations for the prevention of fires and explosions

It is recommended to transfer at a slow speed to avoid the creation of electrostatic charges that could affect flammable products. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is not necessary to take special measures to prevent environmental risks. For more information see subsection 6.2

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

- A.- Technical measures for storage
  - Minimum Temp.:
     5 °C

     Maximum Temp.:
     30 °C
  - Maximum time: 6 Months
- B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

## 7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace

There are no occupational exposure limits for the substances contained in the product

# DNEL (Workers):

		Short e	xposure	Long e	xposure
Identification		Systemic	Local	Systemic	Local
Glycerol	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 56-81-5	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 200-289-5	Inhalation	Non-applicable	Non-applicable	Non-applicable	56 mg/m <sup>3</sup>

### **DNEL** (General population):

			Short e	xposure	Long e	xposure
	Identification		Systemic	Local	Systemic	Local
Glycerol		Oral	Non-applicable	Non-applicable	229 mg/kg	Non-applicable
CAS: 56-81-5		Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 200-289-5		Inhalation	Non-applicable	Non-applicable	Non-applicable	33 mg/m <sup>3</sup>

### PNEC:

ld	entification				
Glycerol		STP	1000 mg/L	Fresh water	0,885 mg/L
CAS: 56-81-5		Soil	0,141 mg/kg	Marine water	0,0885 mg/L
EC: 200-289-5		Intermittent	8,85 mg/L	Sediment (Fresh water)	3,3 mg/kg
		Oral	Non-applicable	Sediment (Marine water)	0,33 mg/kg

## 8.2 Exposure controls:

A.- General security and hygiene measures in the work place

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Directive 89/686/EC. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1.

All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

### **B.-** Respiratory protection

The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.



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C S	Specific protectio	on for the hands			
	Pictogram	PPE	Labelling	CEN Standard	Remarks
	Mandatory hand protection	Protective gloves against minor risks	CATI	HFM	Replace gloves in case of any sign of damage. Fo prolonged periods of exposure to the product for professional users/industrials, we recommend usin CE III gloves in line with standards EN 420 and EN 374.
D C	Ocular and facial	protection	LA.A.		
	Pictogram	PPE	Labelling	CEN Standard	Remarks
	Mandatory face protection	Panoramic glasses against splash/projections.		EN 166:2001 EN ISO 4007:2012	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.
E B	Body protection				
	Pictogram	PPE	Labelling	CEN Standard	Remarks
		Work clothing	CATI		Replace before any evidence of deterioration. Fo periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 6529:2001, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994.
		Anti-slip work shoes	CE	EN ISO 20347:2012	Replace before any evidence of deterioration. Fo periods of prolonged exposure to the product for professional/industrial users CE III is
F A	Additional emerg	ency measures	CATI		recommended, in accordance with the regulations in EN ISO 20345 y EN 13832-1
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Vapour pressure at 20 °C:

Boiling point at atmospheric pressure:

\*Not relevant due to the nature of the product, not providing information property of its hazards.

Not available

Non-applicable \*

Non-applicable \*

Non-applicable \*

Odour:

Volatility:

Odour threshold:



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SECT	TION 9: PHYSICAL AND CHEMICAL PROPER	TIES (continued)
	Vapour pressure at 50 °C:	<300000 Pa (300 kPa)
	Evaporation rate at 20 °C:	Non-applicable *
	Product description:	
	Density at 20 °C:	1261 kg/m³
	Relative density at 20 °C:	1,261
	Dynamic viscosity at 20 °C:	Non-applicable *
	Kinematic viscosity at 20 °C:	Non-applicable *
	Kinematic viscosity at 40 °C:	Non-applicable *
	Concentration:	Non-applicable *
	pH:	Non-applicable *
	Vapour density at 20 °C:	Non-applicable *
	Partition coefficient n-octanol/water 20 °C:	Non-applicable *
	Solubility in water at 20 °C:	Non-applicable *
	Solubility properties:	Non-applicable *
	Decomposition temperature:	Non-applicable *
	Melting point/freezing point:	18 °C
	Explosive properties:	Non-applicable *
	Oxidising properties:	Non-applicable *
	Flammability:	
	Flash Point:	160 °C
	Flammability (solid, gas):	Non-applicable *
	Autoignition temperature:	Non-applicable *
	Lower flammability limit:	2,7 % Volume
	Upper flammability limit:	19 % Volume
	Explosive:	
	Lower explosive limit:	Non-applicable *
	Upper explosive limit:	Non-applicable *
9.2	Other information:	
	Surface tension at 20 °C:	Non-applicable *
	Refraction index:	Non-applicable *
	*Not relevant due to the nature of the product, not providing inform	ation property of its hazards.
SECT	ION 10: STABILITY AND REACTIVITY	

# SECTION 10: STABILITY AND REACTIVITY

#### 10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

# 10.2 Chemical stability:

Chemically stable under the conditions of storage, handling and use.

# 10.3 Possibility of hazardous reactions:

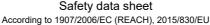
Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

# 10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

	Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
10.5	Incompatible materials:				
	Acids	Water	Combustive materials	Combustible materials	Others
	Avoid strong acids	Not applicable	Not applicable	Not applicable	Avoid alkalis or strong bases

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# SECTION 10: STABILITY AND REACTIVITY (continued)

## 10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO2), carbon monoxide and other organic compounds.

# SECTION 11: TOXICOLOGICAL INFORMATION

#### Information on toxicological effects: 11.1

LD50 oral > 2000 mg/kg (rat)

### Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

- A- Ingestion (acute effect):
  - Acute toxicity : Based on available data, the classification criteria are not met
  - Corrosivity/Irritability: Based on available data, the classification criteria are not met
- B- Inhalation (acute effect):
  - Acute toxicity : Based on available data, the classification criteria are not met
- Corrosivity/Irritability: Based on available data, the classification criteria are not met C- Contact with the skin and the eyes (acute effect):
- - Contact with the skin: Based on available data, the classification criteria are not met
- Contact with the eyes: Based on available data, the classification criteria are not met
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
  - Carcinogenicity: Based on available data, the classification criteria are not met
  - Mutagenicity: Based on available data, the classification criteria are not met
  - Reproductive toxicity: Based on available data, the classification criteria are not met
- E- Sensitizing effects:
  - Respiratory: Based on available data, the classification criteria are not met
  - Cutaneous: Based on available data, the classification criteria are not met
- F- Specific target organ toxicity (STOT) single exposure:

Based on available data, the classification criteria are not met

- G- Specific target organ toxicity (STOT)-repeated exposure:
  - Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met
  - Skin: Based on available data, the classification criteria are not met
- H- Aspiration hazard:

Based on available data, the classification criteria are not met

### Other information:

Non-applicable

Specific toxicology information on the substances:

	Identification	Acu	te toxicity	Genus
Glycerol		LD50 oral	12600 mg/kg	Rat
CAS: 56-81-5		LD50 dermal	Non-applicable	
EC: 200-289-5		LC50 inhalation	Non-applicable	

# SECTION 12: ECOLOGICAL INFORMATION

- 12.1 Toxicity:
  - Not available
- 12.2 Persistence and degradability:



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Identification	Deg	radability		Biodegradability
Glycerol	BOD5	BOD5 Non-applicable C		100 mg/L
CAS: 56-81-5	COD	Non-applicable	Period	14 days
EC: 200-289-5	BOD5/COD	Non-applicable	% Biodegradable	63 %
Bioaccumulative potential:				
lde	entification		Bioa	accumulation potential
Glycerol			BCF	3
CAS: 56-81-5			Pow Log	-1.76
EC: 200-289-5			Potential	Low
Mobility in soil:		1000		
Identification	Absor	Absorption/desorption		Volatility
Glycerol	Кос	Non-applicable	Henry	Non-applicable
CAS: 56-81-5	Conclusion	Non-applicable	Dry soil	Non-applicable
EC: 200-289-5	Surface tension	6,516E-2 N/m (2	5 °C) Moist soil	Non-applicable

Product fails to meet PBT/vPvB criteria

# 12.6 Other adverse effects:

Not described

# SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods:

Code	Description	Waste class (Regulation (EU) No 1357/2014)
	It is not possible to assign a specific code, as it depends on the intended use by the user	Non dangerous

## Type of waste (Regulation (EU) No 1357/2014):

Non-applicable

# Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See paragraph 6.2.

# **Regulations related to waste management:**

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

# SECTION 14: TRANSPORT INFORMATION

This product is not regulated for transport (ADR/RID,IMDG,IATA)

# SECTION 15: REGULATORY INFORMATION

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

Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable

Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable

Article 95, REGULATION (EU) No 528/2012: Non-applicable

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

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## SECTION 15: REGULATORY INFORMATION (continued)

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc ....)

Non-applicable

### Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

### Other legislation:

The product could be affected by sectorial legislation

### 15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

# **SECTION 16: OTHER INFORMATION**

### Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (Regulation (EC) No 2015/830)

# Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:

### Non-applicable Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

CLP Regulation (EC) No 1272/2008:

Non-applicable

### Advice related to training:

Minimal training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

### Principal bibliographical sources:

http://echa.europa.eu http://eur-lex.europa.eu

# Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

- COD: Chemical Oxygen Demand BOD5: 5-day biochemical oxygen demand
- BCF: Bioconcentration factor
- LD50: Lethal Dose 50
- LC50: Lethal Concentration 50
- EC50: Effective concentration 50
- Log-POW: Octanol-water partition coefficient

Koc: Partition coefficient of organic carbon

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