

### Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Date of issue: 08/01/2013 Revision date: 30/09/2022 Supersedes version of: 14/10/2020 Version: 2.3

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

#### 1.1. Product identifier

Product form : Substance

: Glycerol 99% AGR, ACS Trade name

**IUPAC** name : glycerol : 200-289-5 EC-No. CAS-No. : 56-81-5

REACH registration No : 01-2119471987-18

Product code : GLIO-00A Formula : C<sub>3</sub>H<sub>8</sub>O<sub>3</sub>

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

#### 1.2.1. Relevant identified uses

Main use category : Laboratory use

#### 1.2.2. Uses advised against

No additional information available

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

labbox labware s.l.

Migjorn, 1

P.O. Box Barcelona (SPAIN)

08338 Premia de Dalt - SPAIN

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T +34 937 07 79 70 - F +34 937 909 532

info@labbox.com - www.labbox.com

#### 1.4. Emergency telephone number

Emergency number

: +34 937 077 970 (For technical information\_Office Hours) In case of medical emergency phone 112 or to your local emergency number.

Country	Organisation/Company	Address	Emergency number	Comment
Ŭ	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA	0344 892 0111	

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

#### 2.1. Classification of the substance or mixture

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

Not classified

#### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

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

No labelling applicable

### 2.3. Other hazards

No additional information available

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

#### 3.1. Substances

Substance type : Mono-constituent

Name	Product identifier	%
	CAS-No.: 56-81-5 EC-No.: 200-289-5 REACH-no: 01-2119471987- 18	≥ 100

#### 3.2. Mixtures

Not applicable

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

### 4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory

symptoms: Call a poison center or a doctor.

First-aid measures after skin contact : Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical

advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. Consult an ophtalmologist if irritation persists.

First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Drink plenty of water. If you feel unwell, seek medical

advice.

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

Symptoms/effects after inhalation : Cough.

Symptoms/effects after eye contact : mild eye irritation.

Symptoms/effects after ingestion : Ingestion may cause nausea and vomiting.

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

Never give anything by mouth to an unconscious person.

### **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. ABC-powder.

Unsuitable extinguishing media : Strong water jet.

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

Fire hazard : Combustible liquid.
Hazardous decomposition products in case of fire : Carbon oxides (CO, CO2).

### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

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

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

General measures : Absorb spillage to prevent material damage.

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#### 6.1.1. For non-emergency personnel

No additional information available

#### 6.1.2. For emergency responders

No additional information available

### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

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

: Collect spillage. For containment

Methods for cleaning up Soak up with inert absorbent material (for example sand, sawdust, a universal binder, silica

gel).

### 6.4. Reference to other sections

See Heading 8. For further information refer to section 13.

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

### 7.1. Precautions for safe handling

: Wash hands and other exposed areas with mild soap and water before eating, drinking or Hygiene measures

smoking and when leaving work.

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

Storage conditions : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking. Store in a well-ventilated place. Keep container tightly closed.

: Store away from heat. Store in a well-ventilated place. Storage area

Special rules on packaging : Store in a closed container. Keep only in original container.

### 7.3. Specific end use(s)

Laboratory chemicals.

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

#### 8.1. Control parameters

### 8.1.1 National occupational exposure and biological limit values

Glycerol 99% AGR, ACS (56-81-5)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	10 mg/m³
France - Occupational Exposure Limits	
Local name	Glycérine
VME (OEL TWA)	10 mg/m³ (aérosols)
emark Valeurs recommandées/admises	
Spain - Occupational Exposure Limits	
Local name	Glicerina
VLA-ED (OEL TWA) [1]	10 mg/m³ nieblas
United Kingdom - Occupational Exposure Limits	
Local name	Glycerol
WEL TWA [1] 10 mg/m³ mist	

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#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

Glycerol 99% AGR, ACS (56-81-5)	
DNEL/DMEL (Workers)	
Long-term - local effects, inhalation	56 mg/m³
DNEL/DMEL (General population)	
Long-term - systemic effects,oral	229 mg/kg bodyweight/day
Long-term - local effects, inhalation	33 mg/m³
PNEC (Water)	
PNEC aqua (freshwater)	0,885 mg/l
PNEC aqua (marine water)	0,0885 mg/l
PNEC aqua (intermittent, freshwater)	8,85 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	3,3 mg/kg dwt
PNEC sediment (marine water)	0,33 mg/kg dwt
PNEC (Soil)	
PNEC soil	0,141 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	1000 mg/l

#### 8.1.5. Control banding

No additional information available

### 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

No additional information available

### 8.2.2. Personal protection equipment

#### Personal protective equipment:

EN 374.

### Personal protective equipment symbol(s):









### 8.2.2.1. Eye and face protection

### Eye protection:

Safety glasses

### 8.2.2.2. Skin protection

### Hand protection:

protective gloves

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Other skin protection Materials for protective clothing		
Condition	Material	Standard
Good resistance:	Natural rubber, Neoprene, Viton, Butyl rubber	

#### 8.2.2.3. Respiratory protection

No additional information available

#### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

#### Other information:

The present safety data sheet is consistent with the specific conditions relied on to justify the registration of the substance as isolated intermediate. Do not eat, drink or smoke during use.

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

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

Physical state: LiquidColour: Colourless.Appearance: Liquid.Molecular mass: 92,09 g/molOdour: odourless.Odour threshold: Not available

Melting point : 18,17 °C Atm. press.: 101,3 kPa Decomposition: 'no' Sublimation: 'no'

Freezing point : Not available

Boiling point : 290 °C Atm. press.: 760 mm Hg

Flammability : Not available
Explosive limits : Not available
Lower explosion limit : 2,7 vol %
Upper explosion limit : 19 vol %
Flash point : 177 °C 1013 hPa

Auto-ignition temperature : 370 °C

Decomposition temperature : 290 °C

pH : Not available

Viscosity, kinematic : 1119,746 mm²/s

Viscosity, kinematic : 1119,746 mm²/s
Viscosity, dynamic : 1412 mPa·s (20 °C)

Solubility : Soluble in water. Soluble in ethanol. Soluble in acetone. Soluble in ethylacetate. Insoluble in

oils/fats.

Water: 100 g/100ml 25 °C Ether: 0,2 g/100ml : Not available

Partition coefficient n-octanol/water (Log Kow) : Not available Partition coefficient n-octanol/water (Log Pow) : -1,75 25 °C

Vapour pressure :  $< 0,001 \text{ mm Hg } (20 \,^{\circ}\text{C})$ 

Vapour pressure at 50 °C : Not available

Density : 1261 kg/m³ (20 °C)

Relative density : 1,26 (20 °C)

Relative vapour density at 20 °C : 3,17

Relative density of saturated gas/air mixture : 1

Particle characteristics : Not applicable

#### 9.2. Other information

### 9.2.1. Information with regard to physical hazard classes

No additional information available

### 9.2.2. Other safety characteristics

Specific conductivity : 6400000 pS/m 25 °C

VOC content : 0 %

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

#### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Hydroscopic.

#### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

Heat.

#### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

On exposure to high temperature, may decompose, releasing corrosive gases.

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

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

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

<b>Glycero</b>	l 99% AGR, ACS (	(56-81-5)	
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LD50 oral rat	27 mg/kg bodyweight Animal: rat, Animal sex: female
Skin corrosion/irritation :	Not classified
Serious eye damage/irritation :	Not classified
Respiratory or skin sensitisation :	Not classified
Germ cell mutagenicity :	Not classified
Carcinogenicity :	Not classified
Reproductive toxicity :	Not classified
STOT-single exposure :	Not classified

: Not classified

Aspiration hazard : Not classified

### **Glycerol 99% AGR, ACS (56-81-5)**

Viscosity, kinematic 1119,746 mm²/s

#### 11.2. Information on other hazards

No additional information available

STOT-repeated exposure

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

### 12.1. Toxicity

Hazardous to the aquatic environment, short-term

(acuto)

: Not classified

Hazardous to the aquatic environment, long-term

: Not classified

(chronic)

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Glycerol 99% AGR, ACS (56-81-5)	
LC50 - Fish [1]	54000 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)

### 12.2. Persistence and degradability

Glycerol 99% AGR, ACS (56-81-5)	
Persistence and degradability	Readily biodegradable.
Biochemical oxygen demand (BOD)	0,87 g O₂/g substance
Chemical oxygen demand (COD)	1,16 g O <sub>2</sub> /g substance
ThOD	1,217 g O₂/g substance
BOD (% of ThOD)	0,71 % ThOD

### 12.3. Bioaccumulative potential

Glycerol 99% AGR, ACS (56-81-5)	
Partition coefficient n-octanol/water (Log Pow)	-1,75 25 °C
Bioaccumulative potential	No bioaccumulation.

### 12.4. Mobility in soil

Glycerol 99% AGR, ACS (56-81-5)	
Surface tension	0,0634 N/m

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

No additional information available

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

### 13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.

Waste treatment methods : Must follow special treatment according to local regulation.

European List of Waste (LoW) code : 15 01 02 - plastic packaging

15 01 04 - metallic packaging 15 01 07 - glass packaging

16 03 06 - organic wastes other than those mentioned in 16 03 05

### **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / ADN / RID

### 14.1. UN number or ID number

UN-No. (ADR) : Not regulated UN-No. (IMDG) : Not regulated UN-No. (IATA) : Not regulated UN-No. (ADN) : Not regulated

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UN-No. (RID) : Not regulated

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not regulated Proper Shipping Name (IMDG) : Not regulated Proper Shipping Name (IATA) : Not regulated Proper Shipping Name (ADN) : Not regulated Proper Shipping Name (RID) : Not regulated

### 14.3. Transport hazard class(es)

**ADR** 

Transport hazard class(es) (ADR) : Not regulated

**IMDG** 

Transport hazard class(es) (IMDG) : Not regulated

**IATA** 

Transport hazard class(es) (IATA) : Not regulated

ADN

Transport hazard class(es) (ADN) : Not regulated

**RID** 

Transport hazard class(es) (RID) : Not regulated

#### 14.4. Packing group

Packing group (ADR) : Not regulated Packing group (IMDG) : Not regulated Packing group (IATA) : Not regulated Packing group (ADN) : Not regulated Packing group (RID) : Not regulated

### 14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available

### 14.6. Special precautions for user

### Overland transport

Not regulated

#### Transport by sea

Not regulated

#### Air transport

Not regulated

#### Inland waterway transport

Not regulated

### Rail transport

Not regulated

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

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### **SECTION 15: Regulatory information**

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

#### 15.1.1. EU-Regulations

#### **REACH Annex XVII (Restriction List)**

EU restriction list (REACH Annex XVII)	
Reference code	Applicable on
3(b)	Glycerol 99% AGR, ACS

#### **REACH Annex XIV (Authorisation List)**

Glycerol 99% AGR, ACS is not on the REACH Annex XIV List

#### **REACH Candidate List (SVHC)**

Glycerol 99% AGR, ACS is not on the REACH Candidate List

#### **PIC Regulation (Prior Informed Consent)**

Glycerol 99% AGR, ACS is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 july 2012 concerning the export and import of hazardous chemicals.

#### **POP Regulation (Persistent Organic Pollutants)**

Glycerol 99% AGR, ACS is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

#### Ozone Regulation (1005/2009)

Glycerol is not subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

### VOC Directive (2004/42)

VOC content : 0 %

#### **Explosives Precursors Regulation (2019/1148)**

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

#### **Drug Precursors Regulation (273/2004)**

Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

#### 15.1.2. National regulations

#### Germany

Water hazard class (WGK) : WGK 1, Slightly hazardous to water (Classification according to VwVwS, Annex 1 or 2; ID

The substance is not listed

No. 116).

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

**Netherlands** 

SZW-lijst van kankerverwekkende stoffen : The substance is not listed SZW-lijst van mutagene stoffen : The substance is not listed

giftige stoffen – Borstvoeding

NIET-limitatieve lijst van voor de voortplanting : The substance is not listed

giftige stoffen - Vruchtbaarheid

NIET-limitatieve lijst van voor de voortplanting : The substance is not listed

giftige stoffen – Ontwikkeling

#### 15.2. Chemical safety assessment

NIET-limitatieve lijst van voor de voortplanting

No additional information available

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

#### No additional information available

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.