

According to directive 1907/2006/EC, 2020/878  
Version 2.0 Revision date: 30-06-2023  
Trade name: Glycerine

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

### **1.1 Product identification:**

Trade name : Glycerine  
Substance name : glycerol  
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 or mixture: Industrial use, Professional use  
Uses advised against : No advised uses are currently identified.  
Notes : This substance is exempt from registration under Regulation (EC) No 1907/2006 (REACH).

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

Responsible distributor : ASSYST bvba / A.S.O.W. bvba  
Hellegatstraat 13a  
2590 Berlaar  
Belgium  
Tel: +32 495 50 61 14 / +32 496 83 70 27  
Website: [www.assyst.org](http://www.assyst.org) / [www.artsuppliesonweb.com](http://www.artsuppliesonweb.com)  
E-mail: [ao@assyst.org](mailto:ao@assyst.org) / [vera.opsommer@assyst.org](mailto:vera.opsommer@assyst.org)

### **1.4 Emergency phone number:**

For Belgium: Call the **Poison Control Center (070 245 245 - free)**, if not available: **02 264 96 30** (normal rate) or your doctor. In life-threatening situations, always call the European emergency number **112**.  
NHS 24 Direct For help from a GP, visit your GP surgery's website, use an online service to contact your GP, or call the surgery. **For urgent medical help**, use the NHS 111 online service, or **call 111** if you are unable to get help online. **For life-threatening emergencies, call 999** for an ambulance. There is more information about getting medical help on the NHS website.

## **SECTION 2: Identification of hazards**

### **2.1 Classification of the substance or mixture:**

#### **Classification according to directive (EC) No 1272/2008 and its amendments.**

The product is not classified as hazardous according to Regulation (EC) No 1272/2008.

#### **Most significant adverse effects**

##### **Human health:**

See section 11 for toxicological information.

##### **Physical and chemical hazards:**

See section 9/10 for physicochemical information.

##### **Potential environmental impacts :**

See section 12 for environmental information.

### **2.2 Labelling elements:**

#### **Labelling according to regulation (EC) No 1272/2008 [CLP/GHS]:**

The product is not labelled as hazardous according to Regulation (EC) No 1272/2008.

### **2.3 Other hazards:**

This substance/mixture does not contain any components that can be considered persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. This substance/mixture does not contain any components that can be considered persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### **Ecological information:**

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No information available on endocrine-disrupting properties for the environment. The substance/mixture does not contain any components believed to have endocrine-disrupting properties according to REACH article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at level 0.1% or higher.

**Toxicological information:**

No information available on endocrine-disrupting properties for human health: The substance/mixture does not contain any components believed to have endocrine-disrupting properties, according to REACH article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at level 0.1% or higher.

**SECTION 3: Composition and information on ingredients**

**3.1 Substances:**

Chemical description : Substance

**Non-hazardous ingredient:**

Chemical name	CAS no. EC no. Index no. Registration number	Classification (Regulation (EC) No 1272/008)	Concentration (%)
Glycerol	56-81-5 200-289-5 - -	-	>= 80 - < 100

**SECTION 4: First aid measures**

**4.1 Description of first-aid measures:**

**General advice :**

Move outside the danger zone.  
Remove contaminated clothing immediately.  
If symptoms, consult a doctor.

**When inhaled :**

Transfer to fresh air.  
If symptoms persist, consult a doctor.

**On contact with skin :**

Wash with soap and water.  
In case of persistent skin irritation, consult a doctor.

**On contact with eyes :**

Rinse thoroughly with plenty of water, including under the eyelids.  
If eye irritation persists, consult a specialist.

**If swallowed :**

Clean mouth with water and then drink lots of water.  
Never let an unconscious person drink (or eat).  
If symptoms persist, consult a doctor.

**4.2 Main acute and delayed symptoms and effects:**

**Symptoms :**

See section 11 for more detailed information on health effects and symptoms.

**Effects :**

Health injuries under normal use not known or expected.  
See section 11 for more detailed information on health effects and symptoms.

**4.3 Indication of immediate medical attention and special treatment required:**

Treatment : Treat symptomatically.

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## **SECTION 5: Fire-fighting measures**

### **5.1 Extinguishing media:**

#### **Suitable extinguishing agents:**

Use water spray, alcohol-resistant foam, drying powder or carbon dioxide.

#### **Unsuitable extinguishing media:**

Strong water jet.

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

#### **Specific hazards in firefighting:**

The product is not flammable.

In case of fire, hazardous decomposition products such as:

#### **Hazardous combustion products:**

Carbon monoxide, Carbon dioxide (CO<sub>2</sub>)

### **5.3 Advice for firefighters:**

#### **Special protective equipment for firefighters:**

In case of fire, wear a compressed air mask.

Choose protective equipment according to the size of the fire.

#### **Further advice :**

Cool closed containers near the fire with water spray.

Collect contaminated firefighting water separately.

It should not drain to the sewerage system.

## **SECTION 6: Measures in case of accidental release of the substance or mixture**

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

Use personal protective equipment.

Ensure adequate ventilation.

Avoid contact with eyes and skin.

### **6.2 Environmental precautions:**

Do not drain into surface water or the sewerage system.

If the product contaminates rivers, lakes or sewers, inform the respective authorities.

Avoid penetration into the soil.

If the material reaches the ground inform the authorities responsible for such cases.

### **6.3 Methods and materials for containment and cleaning:**

#### **Containment and cleaning methods and material:**

Incorporate with liquid-binding material (sand, mountain flour, acid binder, universal binder).

Store in suitable and closed containers for disposal.

#### **Further information :**

Handle absorbed material as described in the "Disposal" section.

### **6.4 Reference to other sections:**

See Section 1 for emergency contact details.

See Section 8 for information on personal protective equipment.

See section 13 for information on waste treatment.

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

### **7.1 Precautions for safe handling of the substance or mixture:**

#### **Safe handling advice:**

Ensure adequate ventilation.

Keep in tightly closed container.

Avoid contact with eyes, skin and clothing.

#### **Hygiene measures:**

Keep away from food, drink and animal feed.

No smoking, eating and drinking in the workplace.

Wash hands before every work break and at the end of the working day.

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Remove all soiled clothing immediately.

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

##### **Requirements for storage areas and containers:**

Keep containers tightly closed in a cool and well-ventilated place.

Store in original container.

##### **Advice on protection against fire and explosion:**

Flammable liquid.

Do not spray towards a flame or incandescent object.

Keep away from open flames, hot surfaces and ignition sources.

##### **Details of storage conditions:**

Protect from heat/direct sunlight/UV radiation.

##### **Advice for mixed storage:**

Keep away from food, drink and animal feed.

Incompatible with oxidising agents.

#### 7.3 Specific end use:

No data available.

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

#### 8.1 Control parameters:

The product contains no ingredients for which exposure values have been established.

#### 8.2 Exposure control measures:

##### **Appropriate technical measures:**

See protective measures in sections 7 and 8.

##### **Personal protective equipment:**

##### **Respiratory protection:**

Advice : Required in case of vapour or aerosol release.

Recommended filter type: Combination filter: A-P2

##### **Hand protection:**

Recommendation : Protective gloves according to EN 374.

Observe regulations on permeability and soak time, as provided by the glove supplier.

Also take into account specific local conditions of use, such as danger of cuts, wear and tear and touch time.

Safety gloves should be replaced when worn.

Material : Natural rubber

Breakthrough time :  $\geq$  8 h

Glove thickness : 0.5 mm

Material : Polychloroprene

Glove thickness : 0.5 mm

Material : butyl rubber

Glove thickness : 0.5 mm

Material : Fluorinated rubber

Glove thickness : 0.4 mm

Material : Polyvinyl chloride

Glove thickness : 0.5 mm

##### **Eye protection:**

Recommendation : Close-fitting safety goggles

##### **Skin and body protection:**

Advice : Wear suitable protective work clothing.

##### **Managing environmental exposure:**

General advice : Do not drain into surface water or the sewerage system.

If the product contaminates rivers, lakes or sewers, inform the respective authorities.

Avoid penetration into the soil.

If the material reaches the ground inform the authorities responsible for such cases.

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

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

Form :	liquid
Physical state :	liquid
Colour:	colourless
Odour:	odourless
Odour threshold:	Not applicable
Freezing point/trajectory:	18°C
Boiling point/boiling range:	290°C (1013 hPa)
Flammability (solid, gas):	Not applicable
Notes:	Poorly flammable
Upper explosion limit / Upper flammability limit:	11,3 %(V)
Lower explosion limit / Lower flammability limit:	2,6 %(V)
Flash point:	191°C Method: closed cup
Self-ignition temperature:	370°C
Decomposition temperature:	> 290°C
Self-accelerating decomposition temperature (SADT):	No data available
pH:	about 5 (20°C) Concentration: 100 g/l

### **Viscosity**

Viscosity, dynamic:	1.412 mPa.s (20°C)
Viscosity, kinematic:	No data available
Expiry time:	No data available

### **Solubility**

Solubility in water:	completely soluble
Solubility in other solvents:	No data available
Decomposition policy:	No data available
Partition coefficient: n-octanol/water:	log Pow: -1,76
Dispersion stability:	No data available
Vapour pressure:	0.001 hPa (40°C) 0.003 hPa (50°C)
Relative density:	No data available
Density:	1.26 g/cm <sup>3</sup> (20°C)
Bulk specific gravity:	No data available
Relative vapour density:	1,0
Particle characteristics:	No data available

### **9.2 Other information**

Explosive substances :	The product is not explosive
Oxidising properties:	non-oxidising
Flammability (liquids):	Flammable liquid.
Notes:	Poorly flammable
Evaporation rate:	No data available
Molecular weight:	92.1 g/mol

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

### **10.1 Reactivity:**

No decomposition if stored and applied as indicated.

### **10.2 Chemical Stability:**

Stable under recommended storage conditions.

### **10.3 Potential Hazardous Reactions:**

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Under normal conditions of storage and use, no hazardous reactions can occur.

#### 10.4 Conditions to avoid:

##### **Conditions to avoid:**

Heat, flames and sparks.

##### **Thermal decomposition:**

> 290°C

#### 10.5 Chemically interacting Materials:

Incompatible with strong acids and oxidising agents.

#### 10.6 Hazardous Decomposition Products:

Hazardous decomposition products such as: Carbon oxides.

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

#### 11.1 Information on toxicological effects:

##### **Acute toxicity**

Not classified based on the calculation method according to the CLP regulation.

##### **Primary condition:**

##### **Skin corrosion/irritation**

Result : No skin irritation.

##### **Serious eye damage/eye irritation**

Result : No eye irritation.

##### **Respiratory/skin sensitisation**

Result : No known sensitising effects by skin contact.

##### **Additional toxicological information:**

##### **CMR effects (carcinogenicity, mutagenicity and reproductive toxicity)**

##### **Mutagenicity in gametes**

Based on available data; classification criteria not met.

##### **Carcinogenicity**

Based on available data; classification criteria not met.

##### **Reproductive toxicity**

Based on available data; classification criteria not met.

##### **STOT from single exposure**

Remarks : The substance or mixture is not classified as specific target organ, single exposure.

##### **STOT on repeated exposure**

Remarks : The substance or mixture is not classified as specific target organ, repeated exposure.

##### **Inhalation hazard**

No classification for aspiration toxicity.

Component: glycerol CAS No 56-81-5

##### **Acute toxicity**

Oral | LD50 : 12600 mg/kg (Rat)

Skin | LD50 : > 18700 mg/kg (Rabbit)

#### 11.2 Information on other hazards

##### **Endocrine-disrupting properties**

Rating :

No information available on endocrine disrupting properties for human health.

Rating :

The substance/mixture does not contain any components believed to have endocrine-disrupting properties according to REACH article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at level 0.1% or higher.

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## **SECTION 12: Ecological information**

### 12.1 Toxicity:

Component: glycerol CAS No 56-81-5

#### **Acute toxicity**

Fish | LC50 : > 10,000 mg/l (Leuciscus idus (Goldfinch))

#### **Toxicity to daphnia and other aquatic invertebrates**

LC50 : > 10,000 mg/l (Daphnia magna)

#### **Bacteria**

EC50 : > 10000 mg/l (Pseudomonas putida; 16 h)

### 12.2 Persistence and Degradability:

#### **Biodegradability**

Result : Readily biodegradable.

### 12.3 Bioaccumulation:

Result : No data available

### 12.4 Mobility in soil:

Result : No data available

### 12.5 Results of PBT and vPvB assessment:

Result : This substance/mixture does not contain any components that can be considered persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Result : This substance/mixture does not contain any components that can be considered persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Endocrine disrupting properties

#### **Data for the product**

#### **Potential endocrine disruption:**

No information available on endocrine disrupting properties for the environment.

#### **Potential endocrine disruption:**

The substance/mixture does not contain any components believed to have endocrine-disrupting properties according to REACH article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at level 0.1% or higher.

### 12.7 Other Harmful Effects:

Component: glycerol CAS No 56-81-5

#### **Additional ecological information**

Result : Do not drain into surface water or the sewerage system.

Avoid penetration into the soil.

## **SECTION 13: Disposal instructions**

### 13.1 Waste treatment methods:

#### **Product:**

Disposal together with normal waste is prohibited.

Special disposal is required according to local regulations.

Do not allow product to enter drains.

Contact waste management service.

This product must be disposed of or recovered in accordance with Directive 2008/98/EC on waste, as last amended.

#### **Contaminated packaging:**

Empty used containers thoroughly.

Packaging can be reused after thorough cleaning.

If reuse is not possible, dispose of according to local regulations.

#### **European waste list number (EWCN):**

A waste code according to the European Waste Catalogue cannot be assigned for this product, as the intended use dictates the assignment.

The waste code is established in consultation with the regional waste disposal company.

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## **SECTION 14: Information relating to transport**

### 14.1 UN number

The transport of this substance is not subject to regulations.

### 14.2 Proper cargo name according to UN model regulations

The transport of this substance is not subject to regulations.

### 14.3 Transport hazard class(es)

The transport of this substance is not subject to regulations.

### 14.4 Packing group

The transport of this substance is not subject to regulations.

### 14.5 Environmental hazards

The transport of this substance is not subject to regulations.

### 14.6 Special precautions for the user

The transport of this substance is not subject to regulations.

### 14.7 Transport in bulk in accordance with Annex II to MARPOL 73/78 and the IBC Code

Notes:

Not applicable for product, as delivered.

### **UN "Model Regulation":**

Not applicable

## **SECTION 15: Statutory information**

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

Data for the product

### **EU, REACH Candidate list of substances of very high concern for authorisation (SVHC):**

Not listed

### **EU, REACH Annex XIV, substances subject to authorisation :**

Not stated;

Component: glycerol CAS No 56-81-5

### **Directive 2012/18/EU (SEVESO III) Annex I:**

Substance/mixture is not covered by this legislation.

### **Notification status**

glycerol:

Regulatory list	Notification	Notification number
EINECS	Yes	200-289-5
DSL	Yes	
KECI (KR)	Yes	KE-29297
ENCS (JP)	Yes	(2)-242
PICCS (PH)	Yes	
JEX (JP)	Yes	(2)-242
ISHL (JP)	Yes	(2)-242
NZIOC	Yes	
INSQ	Yes	
ONT INV	Yes	
IECSC	Yes	
TCSI	Yes	
TSCA	Yes	
PHARM (JP)	Yes	
VN INVL	Yes	
TH INV	Yes	55-1-04482
TH INV	Yes	2905.45
AU AIICL	Yes	

### 15.2 Chemical safety assessment:

No data available.

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**SECTION 16: Other information****Abbreviations and acronyms:**

AU:	AIICL Australia. Industrial Chemicals Act (AIIC) List
BCF:	bioconcentration factor
BOD:	biochemical oxygen demand
CAS:	Chemical Abstracts Service
CLP:	classification, labelling and packaging
CMR:	carcinogenic, mutagenic or reprotoxic
COD:	chemical oxygen demand
DNEL:	derived dose without effect
DSL:	Canada. Environmental Protection Act, Domestic Substances List
EINECS:	European Inventory of Existing Commercial Chemical Substances
ELINCS:	European list of notified substances
ENCS (JP):	Japan. Kashin-Hou Law List
GHS:	Globally harmonised classification and labelling system for chemicals
IECSC:	China. Inventory of Existing Chemical Substances.
INSQ:	Mexico. National Inventory of Chemical Substances.
ISHL (JP):	Japan. Inventory of Industrial Safety & Health.
KECI (KR):	Korea. Existing Chemicals Inventory.
LC50:	lethal concentration 50%
LOAEC:	lowest concentration at which an adverse effect was observed
LOAEL:	lowest dose or concentration at which an adverse effect was observed
LOEL:	lowest dose or concentration at which an effect was observed
NDSL:	Canada. Environmental Protection Act. Non-Domestic Substances List.
NLP:	no longer polymer
NOAEC:	concentration at which no adverse effect was observed
NOAEL:	dose or concentration at which no adverse effect was observed
NOEC:	concentration with no observed effects
NOEL:	dose or concentration at which no effect was observed
NZIOC:	New Zealand. Inventory of Chemicals
OECD:	Organisation for Economic Co-operation and Development
OEL:	occupational exposure limit value
ONT INV:	Canada. Ontario Inventory List
PBT:	persistent, bioaccumulative and toxic
PHARM (JP):	Japan. Pharmacopoeia Listing
PICCS (PH):	Philippines. Inventory of Chemicals and Chemical Substances.
PNEC:	predicted no-effect concentration
REACH auth. no.:	REACH authorisation number
REACH consul. No.:	REACH consultation number of application for authorisation
UK REACH auth. no.:	UK REACH authorisation number
UK REACH consul. No.:	UK REACH consultation number of the application for authorisation
STOT:	specific target organ toxicity
SVHC:	substance of very high concern
TCSI:	Taiwan. Existing Chemicals Inventory.
TH INV:	Thailand. Existing Chemicals Inventory from FDA
TSCA:	US. Toxic Substances Control Act
UVCB:	substance of unknown or variable composition, complex reaction products and biological materials
UN INVL:	Vietnam. National Chemical Inventory
vPvB:	very persistent and very bioaccumulative

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## Further information

### Training advice:

Workers should be regularly trained on the safe handling of the products based on the information provided in the safety data sheet and the local conditions of the workplace information. National regulations for training workers in the handling of hazardous substances must be followed.

### Key literature references and data sources:

Supplier information and data from the "Database of Registered Substances" of the European Chemicals Agency (ECHA) were used to create this safety data sheet

### Methods used for pr:

The classification for human health, physical and chemical risks and environmental hazards were derived from a combination of calculation methods and, where available, test data.

### Disclaimer

The information provided here is correct and complete to the best of our knowledge at the date of issue of this safety data sheet. The information relates only to the said product and does not guarantee the quality and completeness of the product's properties, or in case the product is used together with other products or in any other process.