



## SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

### GLYCERINE (ALL GRADES)

Version 5.0

Print Date 2017/04/25

Revision date / valid from 2017/04/25

MSDS code: **MGLY100**

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

##### 1.1. Product identifier

Trade name	:	GLYCERINE (ALL GRADES)
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/Mixture	:	Industrial use, Professional use
Uses advised against	:	At this moment we have not identified any uses advised against
Remarks	:	This substance is exempt from registration according to Regulation (EC) No. 1907/2006 (REACH).

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

The Soap Kitchen  
Unit 8 Caddsdawn Industrial Park, Clovelly Road, Bideford,  
Devon EX39 3DX  
Tel: 01237 420872 (+44 (0)1237 420872)  
Email: [info@thesoapkitchen.co.uk](mailto:info@thesoapkitchen.co.uk)

#### SECTION 2: Hazards identification

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

###### Classification according to Regulation (EC) No 1272/2008

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

###### Most important adverse effects

Human Health	:	See section 11 for toxicological information.
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Physical and chemical hazards : See section 9/10 for physicochemical information.  
Potential environmental effects : See section 12 for environmental information.

### 2.2. Label elements

#### Labelling according to Regulation (EC) No 1272/2008

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

#### Other labelling information:

Further information : Handle in accordance with good industrial hygiene and safety practice.

### 2.3. Other hazards

For Results of PBT and vPvB assessment see section 12.5.

The product does not need to be labelled in accordance with EC directives or respective national laws.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

#### Non-hazardous component

Chemical name	Identification Number	Amount [%]
Glycerol	CAS-No. : 56-81-5 EC-No. 200-289-5	<= 100

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

General advice : No special precautions required.  
If inhaled : Remove to fresh air. If symptoms persist, call a physician.  
In case of skin contact : Wash off with soap and water. Take off all contaminated clothing immediately.  
In case of eye contact : Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.



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If swallowed : Rinse mouth with water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

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

Symptoms : There may be mild irritation at the site of contact. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. See Section 11 for more detailed information on health effects and symptoms.

Effects : See Section 11 for more detailed information on health effects and symptoms.

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

Treatment : Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray, foam, dry powder or CO<sub>2</sub>.  
Unsuitable extinguishing media : High volume water jet

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

Specific hazards during firefighting : Heating or fire can release toxic gas.  
Hazardous combustion products : Carbon dioxide (CO<sub>2</sub>), Carbon monoxide, acrolein, Under certain fire conditions, traces of other toxic products cannot be excluded.

### 5.3. Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Wear personal protective equipment.  
Further advice : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

## SECTION 6: Accidental release measures

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

Personal precautions : Use personal protective equipment. Avoid contact with skin, eyes and clothing. For personal protection see section 8.  
Ensure adequate ventilation.

### 6.2. Environmental precautions



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Environmental precautions : Do not flush into surface water or sanitary sewer system.  
Avoid subsoil penetration.

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

Methods and materials for containment and cleaning up : Use mechanical handling equipment. Keep in suitable, closed containers for disposal.

Further information : Treat recovered material as described in the section "Disposal considerations".

### 6.4. Reference to other sections

For personal protection see section 8.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Advice on safe handling : Keep container tightly closed. Handle in accordance with good industrial hygiene and safety practice.

Hygiene measures : Keep away from food, drink and animal feedingstuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday. Provide adequate ventilation. Avoid contact with the skin and the eyes.

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

Requirements for storage areas and containers : Keep only in the original container.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Further information on storage conditions : Keep tightly closed in a dry and cool place. Keep away from heat. Protect from frost.

Advice on common storage : Keep away from food, drink and animal feedingstuffs. Incompatible with oxidizing agents.

### 7.3. Specific end use(s)

Specific use(s) : No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Component:	Glycerol	CAS-No. 56-81-5
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### Other Occupational Exposure Limit Values

UK. EH40 Workplace Exposure Limits (WELs), Time Weighted Average (TWA):, Mist.  
10 mg/m<sup>3</sup>

ELV (IE), Time Weighted Average (TWA):, Mist.  
10 mg/m<sup>3</sup>

### 8.2. Exposure controls

#### Personal protective equipment

##### *Respiratory protection*

Advice : Required, if exposure limit is exceeded (e.g. OEL).  
If ventilation is insufficient, suitable respiratory protection must be provided  
Use respirator with appropriate filter if vapours or aerosol are released.  
Respiratory protection complying with EN 141.

##### *Hand protection*

Advice : Protective gloves complying with EN 374.  
Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions.  
Protective gloves should be replaced at first signs of wear.

Material : Neoprene

Material : PVC

##### *Eye protection*

Advice : Safety goggles

##### *Skin and body protection*

Advice : Protective work clothing

#### Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.  
Avoid subsoil penetration.

## SECTION 9: Physical and chemical properties

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



## GLYCERINE (ALL GRADES)

Form	: viscous liquid
Colour	: colourless
Odour	: odourless
Odour Threshold	: no data available
pH	: 7
Melting point/range	: 18 °C
Boiling point/boiling range	: 290 °C
Boiling point	Decomposition
Flash point	: 177 °C
Evaporation rate	: no data available
Flammability (solid, gas)	: no data available
Upper explosion limit	: 20 %(V)
Lower explosion limit	: 10 %(V)
Vapour pressure	: < 0.01 hPa
Relative vapour density	: 3.17
Density	: 1.262 g/cm <sup>3</sup> (20 °C)
Water solubility	: soluble in cold water
Partition coefficient: n-octanol/water	: log Kow -2.6
Auto-ignition temperature	: 400 °C
Thermal decomposition	: no data available
Viscosity, dynamic	: 1,300 mPa.s (20 °C)
Explosivity	: no data available
Oxidizing properties	: no data available

### 9.2. Other information

No further information available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity



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Advice : Stable under recommended storage conditions.

### 10.2. Chemical stability

Advice : Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

### 10.4. Conditions to avoid

Conditions to avoid : No information available.

### 10.5. Incompatible materials

Materials to avoid : Oxidizing agents

### 10.6. Hazardous decomposition products

Hazardous decomposition products : Carbon oxides, acrolein

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Data for the product

#### Acute toxicity

#### Oral

LD50 Oral : > 2000 mg/kg (Rat)

#### Irritation

#### Eyes

Result : May irritate eyes.

#### Sensitisation

Result : No sensitizing effect known.

#### Further information

Other relevant toxicity information : Handle in accordance with good industrial hygiene and safety practice.

Experience with human exposure : Health injuries are not known or expected under normal use.,

<b>Component:</b>	<b>Glycerol</b>	<b>CAS-No. 56-81-5</b>
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#### Acute toxicity

#### Oral



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|| LD50 : 12600 mg/kg (Rat)

### Dermal

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

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Data for the product

#### Acute toxicity

#### Fish

LC50 : > 5000 mg/l (fish; 96 h) (Toxicity to fish)

#### Component:

Glycerol

CAS-No. 56-81-5

#### Acute toxicity

#### Fish

|| LC50 : > 10000 mg/l (Leuciscus idus (Golden orfe))

#### Toxicity to daphnia and other aquatic invertebrates

|| LC50 : > 10000 mg/l (Daphnia magna)

#### Bacteria

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

### 12.2. Persistence and degradability

#### Data for the product

#### Persistence and degradability

#### Biodegradability

Result : Readily biodegradable

#### Component:

Glycerol

CAS-No. 56-81-5

#### Persistence and degradability





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### Biodegradability

|| Result : Readily biodegradable.

### 12.3. Bioaccumulative potential

#### Data for the product

#### Bioaccumulation

Result : Bioaccumulation is not expected.

### 12.4. Mobility in soil

### 12.5. Results of PBT and vPvB assessment

### 12.6. Other adverse effects

#### Data for the product

#### Additional ecological information

Result : Do not flush into surface water or sanitary sewer system.  
Avoid subsoil penetration.

Component: Glycerol CAS-No. 56-81-5

#### Additional ecological information

|| Result : Do not flush into surface water or sanitary sewer system.  
Avoid subsoil penetration.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product : Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Do not let product enter drains. Contact waste disposal services.

Contaminated packaging : Empty containers or liners may retain some products residues. Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

European Waste Catalogue Number : No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.



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### SECTION 14: Transport information

Not dangerous goods for ADR, RID, IMDG and IATA.

#### 14.1. UN number

Not applicable.

#### 14.2. UN proper shipping name

Not applicable.

#### 14.3. Transport hazard class(es)

Not applicable.

#### 14.4. Packaging group

Not applicable.

#### 14.5. Environmental hazards

Not applicable.

#### 14.6. Special precautions for user

Not applicable.

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

IMDG : Not applicable.

### SECTION 15: Regulatory information

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

Component:	Glycerol	CAS-No. 56-81-5
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|| EU. Regulation No : EC Number: , 200-289-5; Listed  
1451/2007 [Biocides],  
Annex I, OJ (L 325)

|| EU. Directive : ; The substance/mixture does not fall under this legislation.  
2012/18/EU (SEVESO  
III) Annex I

|| WGK (DE) : WGK 1: slightly water endangering: 116; Classification source



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II

is Annex 2.

### 15.2. Chemical safety assessment

no data available

## SECTION 16: Other information

### Abbreviations and Acronyms

BCF	bioconcentration factor
BOD	biochemical oxygen demand
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	carcinogenic, mutagenic or toxic to reproduction
COD	chemical oxygen demand
DNEL	derived no-effect level
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
LC50	median lethal concentration
LOAEC	lowest observed adverse effect concentration
LOAEL	lowest observed adverse effect level
LOEL	lowest observed effect level
NLP	no-longer polymer
NOAEC	no observed adverse effect concentration
NOAEL	no observed adverse effect level
NOEC	no observed effect concentration
NOEL	no observed effect level
OECD	Organisation for Economic Cooperation and Development
OEL	occupational exposure limit
PBT	persistent, bioaccumulative and toxic
PNEC	predicted no-effect concentration
STOT	specific target organ toxicity
SVHC	substance of very high concern
UVCB	substance of unknown or variable composition, complex reaction products or biological materials
vPvB	very persistent and very bioaccumulative

### Further information

Key literature references : Supplier information and data from the "Database of registered



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and sources for data

substances" of the European Chemicals Agency (ECHA) were used to create this safety data sheet.

Methods used for product classification

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

Hints for trainings

: The workers have to be trained regularly on the safe handling of the products based on the information provided in the Safety Data Sheet and the local conditions of the workplace. National regulations for the training of workers in the handling of hazardous materials must be adhered to.

Other information

: The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and does not constitute a legal relationship.

The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

|| Indicates updated section.