

# SAFETY DATA SHEET

## According to Regulation 1907/2006/CE

Doc. N° 421015 rev.0  
Date of issue: 21/11/2014

---

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product name : **Glycerol**  
Product Number : **421015**  
REACH No. : A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.  
CAS-No. : 56-81-5

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

Identified uses : Supplement for microbiology

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

Company : Biolife Italiana S.r.l.  
Viale Monza 272, 20128 Milano Italia  
Tel : 0039 02 252091  
Fax: 0039 02 2576428  
E-mail: [mktg@biolifeitaliana.it](mailto:mktg@biolifeitaliana.it)

#### 1.4 Emergency telephone number

Emergency Phone : 0039 02-6610-1029 (Centro Antiveneni Niguarda Ca' Granda- Milano)

---

### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.  
This substance is not classified as dangerous according to Directive 67/548/EEC.

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

Pictogram none  
Signal word none  
Hazard statement(s) none  
Precautionary statement(s) none  
Supplemental Hazard Statements none

#### 2.3 Other hazards

none

---

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

Synonyms : 1,2,3-Propanetriol  
Glycerin  
Formula :  $C_3H_8O_3$   
Molecular Weight : 92,09 g/mol  
CAS-No. : 56-81-5  
EC-No. : 200-289-5

No components need to be disclosed according to the applicable regulations.

---

**4. FIRST AID MEASURES****4.1 Description of first aid measures**

|                                |  |
|--------------------------------|--|
| <b>If inhaled</b>              | If breathed in, move person into fresh air. If not breathing, give artificial respiration. |
| <b>In case of skin contact</b> | Wash off with soap and plenty of water.  |
| <b>In case of eye contact</b>  | Flush eyes with water as a precaution.   |
| <b>If swallowed</b>            | Never give anything by mouth to an unconscious person. Rinse mouth with water.             |

**4.2 Most important symptoms and effects, both acute and delayed**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**4.3 Indication of any immediate medical attention and special treatment needed**

no data available

---

**5. FIREFIGHTING MEASURES****5.1 Extinguishing media**

**Suitable extinguishing media** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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

Carbon oxides

**5.3 Advice for firefighters**

Wear self contained breathing apparatus for fire fighting if necessary.

**5.4 Further information**

The product itself does not burn.

---

**6. ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

**6.2 Environmental precautions**

Do not let product enter drains.

**6.3 Methods and materials for containment and cleaning up**

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

**6.4 Reference to other sections**

For disposal see section 13.

---

**7. HANDLING AND STORAGE****7.1 Precautions for safe handling**

no data available

**7.2 Conditions for safe storage, including any incompatibilities**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.  
Hygroscopic

**7.3 Specific end uses**

no data available



---

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### Components with workplace control parameters

It doesn't contain substances with occupational exposure limit value.

### 8.2 Exposure controls

#### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Personal protective equipment

##### Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

##### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.  
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

##### Body Protection

impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

##### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

|  |                               |
|--|-------------------------------|
| a) Appearance                              | Form: liquid<br>Colour: clear |
| b) Odour                                   | odourless                     |
| c) Odour Threshold                         | no data available             |
| d) pH                                      | 5,5 - 8                       |
| e) Melting point/freezing point            |                               |
| Melting point/range:                       | 20 °C                         |
| f) Initial boiling point and boiling range | 182 °C at 27 hPa              |
| g) Flash point                             | no data available             |
| h) Evaporation rate                        | no data available             |
| i) Flammability (solid, gas)               | 160 °C - closed cup           |
| j) Upper/lower flammability or             |                               |

|  |                                 |
|--|---------------------------------|
| explosive limits                             | Lower explosion limit: 0,9 %(V) |
| k) Vapour pressure                           | 0,0033 hPa at 50 °C             |
| l) Vapour density                            | 3,18 - (Air = 1.0)              |
| m) Relative density                          | 1,20 g/cm <sup>3</sup>          |
| n) Water solubility                          | soluble                         |
| o) Partition coefficient: noctanol/<br>water | no data available               |
| p) Auto-ignition<br>temperature              | no data available               |
| q) Decomposition<br>temperature              | no data available               |
| r) Viscosity                                 | no data available               |
| s) Explosive properties                      | no data available               |
| t) Oxidizing properties                      | no data available               |

## 9.2 Other safety information

|                         |                    |
|-------------------------|--------------------|
| Surface tension         | 63,4 mN/m at 20 °C |
| Relative vapour density | 3,18 - (Air = 1.0) |

---

## 10. STABILITY AND REACTIVITY

|  |                                       |
|--|---------------------------------------|
| <b>10.1 Reactivity</b>                         | no data available                     |
| <b>10.2 Chemical stability</b>                 | no data available                     |
| <b>10.3 Possibility of hazardous reactions</b> | no data available                     |
| <b>10.4 Conditions to avoid</b>                | no data available                     |
| <b>10.5 Incompatible materials</b>             | Strong bases, Strong oxidizing agents |
| <b>10.6 Hazardous decomposition products</b>   | no data available                     |

---

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

|   |   |
|---|---|
| <b>Acute toxicity</b>                                   | LD50 Oral - rat - 12.600 mg/kg<br>LD50 Dermal - rabbit - > 10.000 mg/kg   |
| <b>Skin corrosion/irritation</b>                        | Skin - rabbit<br>Result: Mild skin irritation - 24 h  |
| <b>Serious eye damage/eye irritation</b>                | Eyes - rabbit<br>Result: Mild eye irritation - 24 h   |
| <b>Respiratory or skin sensitisation</b>                | no data available   |
| <b>Germ cell mutagenicity</b>                           | no data available   |
| <b>Carcinogenicity</b>                                  | IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. |
| <b>Reproductive toxicity</b>                            | no data available   |
| <b>Specific target organ toxicity - single exposure</b> | no data available   |

### Specific target organ toxicity - repeated exposure

|                                       |   |
|---------------------------------------|---|
|                                       | no data available   |
| <b>Aspiration hazard</b>              | no data available   |
| <b>Potential health effects</b>       |   |
| <b>Inhalation</b>                     | May be harmful if inhaled. Causes respiratory tract irritation.   |
| <b>Ingestion</b>                      | Harmful if swallowed.   |
| <b>Skin</b>                           | May be harmful if absorbed through skin. Causes skin irritation.  |
| <b>Eyes</b>                           | Causes eye burns.   |
| <b>Signs and Symptoms of Exposure</b> | To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. |
| <b>Additional Information</b>         | RTECS: MA8050000  |

---

**12. ECOLOGICAL INFORMATION**

|  |                   |
|--|-------------------|
| <b>12.1 Toxicity</b>                           | no data available |
| <b>12.2 Persistence and degradability</b>      | no data available |
| <b>12.3 Bioaccumulative potential</b>          | no data available |
| <b>12.4 Mobility in soil</b>                   | no data available |
| <b>12.5 Results of PBT and vPvB assessment</b> | no data available |
| <b>12.6 Other adverse effects</b>              | no data available |

---

**13. DISPOSAL CONSIDERATIONS**

|                                     |  |
|-------------------------------------|--|
| <b>13.1 Waste treatment methods</b> |  |
| <b>Product</b>                      | Offer surplus and non-recyclable solutions to a licensed disposal company. |
| <b>Contaminated packaging</b>       | Dispose of as unused product.  |

---

**14. TRANSPORT INFORMATION**

|  |  |
|--|--|
| <b>14.1 UN number</b>                    | ADR/RID: - IMDG: - IATA: -   |
| <b>14.2 UN proper shipping name</b>      | ADR/RID: Not dangerous goods<br>IMDG: Not dangerous goods<br>IATA: Not dangerous goods |
| <b>14.3 Transport hazard class(es)</b>   | ADR/RID: - IMDG: - IATA: -   |
| <b>14.4 Packaging group</b>              | ADR/RID: - IMDG: - IATA: -   |
| <b>14.5 Environmental hazards</b>        | ADR/RID: no IMDG Marine pollutant: no IATA: no   |
| <b>14.6 Special precautions for user</b> | no data available  |

---

**15. REGULATORY INFORMATION**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

**Biolife** Italiana S.r.l., Viale Monza 272, 20128 Milan, Italy. Tel. n° ++39 02 25209.1, Fax n° ++39 02 2576428  
E-mail: [mktg@biolifeitaliana.it](mailto:mktg@biolifeitaliana.it); Web Site: [www.biolifeitaliana.it](http://www.biolifeitaliana.it)

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
no data available

**15.2 Chemical Safety Assessment** no data available

---

## 16. OTHER INFORMATION

### Further information

**Restrictions for use** No data available

**Training advice** No data available

**References** No data available

The information in this MSDS was obtained from current and reliable sources. Anyone using this information is solely responsible for the accuracy and applicability of this information to a particular use or situation. Biolife Italiana S.r.l. does not in any way warrant or imply the applicability, viability or use of this information to any person or for use in any situation.