

Information Safety data sheet
according to 1907/2006/EC (Article 32) and subsequent amendments

Printing date 17.06.2020

Version number 7

Revision: 17.06.2020

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

- 1.1 Product identifier

- Trade name: **GLYCERIN 1.26 (MIN. 99.5%) PH.EUR**

- Chemical Identification: glycerol

- Article number: MP 020222

- CAS Number:

56-81-5

- EC number:

200-289-5

- Registration number

The substance is exempted from REACH registration under Annex V part 9 of Regulation (EC) No. 1907/2006 as amended by Regulation (EC) No. 987/2008.

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

- Application of the substance / the mixture

Industrial use.

Cosmetic Industry

Pharmaceutical industry.

Food

- 1.3 Details of the supplier of the safety data sheet

- Manufacturer/Supplier:

ECSA Chemicals AG

Via Luigi Favre 16 - CH-6828 Balerna (Chiasso); Burgauerstrasse 17 - CH-9230 Flawil (SG) tel.+41 58 211 91 00

- fax +41 58 211 91 01

ECSA Maintenance AG

Burgauerstrasse 17 - CH-9230 Flawil (SG) tel.+41 58 211 93 00 - fax +41 58 211 93 01

ECSA Energy SA

Via Luigi Favre 16 - CH-6828 Balerna (Chiasso) tel.+41 58 211 95 00 - fax +41 58 211 95 01

ECSA ITALIA Srl Società con Unico Socio

Via Lav. Autobianchi 1 - I-20832 Desio (MB) tel. +39 0362 625 421 – fax +39 0362 304 361

- Informing department: Product safety department: quality@ecsa.ch

*** SECTION 2: Hazards identification**

- 2.1 Classification of the substance or mixture

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

The substance is not classified, according to the CLP regulation.

- 2.2 Label elements

- Labelling according to Regulation (EC) No 1272/2008 Void

- Hazard pictograms Void

- Signal word Void

- Hazard statements Void

- 2.3 Other hazards

- Results of PBT and vPvB assessment

- PBT: Not applicable.

- vPvB: Not applicable.

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

- **3.1 Substances**
- **CAS No. Designation:**
56-81-5 Glycerol
- **Identification number(s):**
- **EC number:** 200-289-5
- **Additional information:**
INCI: GLYCERIN
Molecular Weight: 92.09 g/mol
Chemical formula: $C_3H_8O_3$

*** SECTION 4: First aid measures**

- **4.1 Description of first aid measures**
- **General information**
Personal protection for the First Aider.
Seek medical treatment.
- **After inhalation** Supply fresh air; consult doctor in case of symptoms.
- **After skin contact**
Remove contaminated clothing.
Wash with water and soap.
If the skin is irritated, consult a doctor.
- **After eye contact**
Remove contact lenses, if present and easy to do.



Rinse opened eye for several minutes under running water. Then consult doctor.

- **After swallowing**
Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Wash out mouth with water if person is conscious.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** Treat symptomatically.

*** SECTION 5: Firefighting measures**

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**
 CO_2 extinguishing powder or water spray. Fight larger fires with water jet or alcohol-resistant foam.
Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **5.2 Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
Carbon oxides (CO_x)
acrylaldehyde
- **5.3 Advice for firefighters**
- **Protective equipment:**
Do not inhale explosion gases or combustion gases.
Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves)
- **Additional information** Cool endangered containers with water spray jet.

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*** SECTION 6: Accidental release measures**

- 6.1 Personal precautions, protective equipment and emergency procedures

Particular danger of slipping on leaked/spilled product.

Keep away from ignition sources

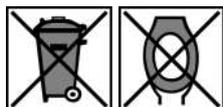
Wear protective equipment. Keep unprotected persons away.

- 6.2 Environmental precautions:

Do not allow to enter drainage system, surface or ground water.

Inform respective authorities in case product reaches water or sewage system.

- 6.3 Methods and material for containment and cleaning up:



Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Collect mechanically.

Send for recovery or disposal in closed suitable containers.

Dispose of the material collected according to regulations.

- 6.4 Reference to other sections

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

*** SECTION 7: Handling and storage**

- 7.1 Precautions for safe handling

Keep away from heat and direct sunlight.

Store in cool, dry place in tightly closed containers.

- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.

- 7.2 Conditions for safe storage, including any incompatibilities

- Storage

- Requirements to be met by storerooms and containers:

Store only in the original container.

Do not store in unmarked containers or vessel.

Packaging suggested: Plastic drums.

Suitable material for containers and pipes: Soft steel.

Suitable material for containers and pipes: Aluminium.

- Information about storage in one common storage facility:

Incompatible products:

strong oxidizing agents

Peroxides

Strong bases

- Further information about storage conditions:

Caution when reopening containers with broken seal.

This product is hygroscopic.

Protect from humidity and keep away from water.

Suggested temperature: 5-40°C

- 7.3 Specific end use(s) No further relevant information available.

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

- 8.1 Control parameters

- Components with limit values that require monitoring at the workplace:

56-81-5 Glycerol

WEL (Gran Bretagna) Long-term value: 10 mg/m³

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56-81-5 Glycerol	
WEL (Switzerland)	Short-term value: 100 mg/m ³
Long-term value	50 mg/m ³
	SSc

- 8.2 Exposure controls

Appropriate engineering controls:

Ensure good ventilation in the workplace

- Personal protective equipment**- General protective and hygienic measures**

The usual precautionary measures should be adhered to general rules for handling chemicals.

Avoid contact with the eyes and skin.

Ensure that washing facilities are available in the work place.

Wash hands during breaks and at the end of the work.

Do not eat or drink while working.

- Breathing equipment:

Not necessary if room is well-ventilated.

Use breathing protection only when aerosol or mist is formed.

Filter A

- Protection of hands:

Protective gloves.

Chemical resistant gloves (EN 374)

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Check protective gloves prior to each use for their proper condition.

- Material of gloves

Butyl rubber, BR

polyethylene

Neoprene gloves

Natural rubber, NR

PVC gloves

Nitrile rubber, NBR

- Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- Eye protection:

Safety glasses recommended.

Equipment should conform to EN 166.

- Body protection:

Protective work clothing.

Safety shoes.

- Limitation and supervision of exposure into the environment

Do not discharge into the drains/surface waters/groundwater

* **SECTION 9: Physical and chemical properties****- 9.1 Information on basic physical and chemical properties****- General Information****- Appearance:****Form:** Liquid**Colour:** Colourless**- Odour:** Odourless**- Odour threshold:** Not determined.**- pH-value:** 7**- Change in condition****Melting point/freezing point:** 18.17 °C

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Initial boiling point and boiling range: 290 °C	
- Flash point:	> 180 °C
- Inflammability (solid, gaseous)	Not applicable.
- Ignition temperature:	429 °C
- Decomposition temperature:	c.a 250 °C
- Explosive properties:	Product is not explosive.
- Critical values for explosion:	
Lower:	Not determined.
Upper:	Not determined.
- Oxidising properties	Not determined
- Vapour pressure at 20 °C:	<0.1 hPa
- Density at 20 °C	1.26 g/cm ³
- Relative density	Not determined.
- Vapour density at 20 °C	c.a 3.1 g/cm ³ (air=1)
- Evaporation rate	Not determined.
- Solubility in / Miscibility with Water:	Soluble
- Partition coefficient: n-octanol/water:	-1.75 log Pow
- Viscosity:	
dynamic at 20 °C:	1.412 mPas
- 9.2 Other information	No further relevant information available.

* SECTION 10: Stability and reactivity

- **10.1 Reactivity** See "Possibility of hazardous reactions"
- **10.2 Chemical stability** Stable under normal condition of use
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions**
Toxic fumes may be released if heated above the decomposition point
T>200°C
- **10.4 Conditions to avoid**
Heat, flames, sparks
Humidity
- **10.5 Incompatible materials:**
strong oxidizing agents
Strong bases.
peroxides
- **10.6 Hazardous decomposition products:**
Formation of toxic gases is possible during heating or in case of fire.
Carbon oxides (COx)
acrylaldehyde
peroxides

* SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

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- LD/LC50 values that are relevant for classification:**56-81-5 Glycerol**

Oral	LD50	27,200 mg/kg (rat)
Dermal	LD50	56,750 mg/kg (Guinea Pig)

- Primary irritant effect:**- Skin corrosion/irritation**

Not irritant

Test on rabbit.

- Serious eye damage/irritation

Not irritant

Test on rabbit:

- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.**- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

No evidence of carcinogenic activity

Classification for genotoxicity is not warranted.

Ames-Test: negative

In vitro mammalian chromosome aberration test: negative (OECD 473)

In vitro Mammalian Cell Gene Mutation test: negative (OECD 476)

Not expected to be teratogenic.

NOAEL (maternal toxicity) : 1310 mg/kg rat

NOAEL (developmental toxicity) : 1310 mg/kg rat

- Germ cell mutagenicity Based on available data, the classification criteria are not met.**- Carcinogenicity** Based on available data, the classification criteria are not met.**- Reproductive toxicity** Based on available data, the classification criteria are not met.**- STOT-single exposure** Based on available data, the classification criteria are not met.**- STOT-repeated exposure** Based on available data, the classification criteria are not met.**- Aspiration hazard** Based on available data, the classification criteria are not met.*** SECTION 12: Ecological information****- 12.1 Toxicity****- Aquatic toxicity:****56-81-5 Glycerol**

EC5	>10 g/l (<i>pseudomonas putida</i>)
EC50	10 g/l (<i>daphnia</i>) (24h)
LC50	54 g/l (<i>oncorhynchus mykiss</i>) (96h)

- 12.2 Persistence and degradability Easily biodegradable**- 12.3 Bioaccumulative potential**

Non significant accumulation in organisms

Due to the distribution coefficient n-octanol/water an accumulation in organisms is not expected: Log Pow: -1.75

- 12.4 Mobility in soil Low**- Additional ecological information:****- General notes:**

Do not allow product to reach ground water, water bodies or sewage system.

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water.

- 12.5 Results of PBT and vPvB assessment**- PBT:** Not applicable.**- vPvB:** Not applicable.**- 12.6 Other adverse effects** No further relevant information available.

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*** SECTION 13: Disposal considerations**

- **13.1 Waste treatment methods**
- **Recommendation**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
Must be specially treated under adherence to official regulations.
- **Waste disposal key number:** HP 15 Reg.1357/2014/UE
- **Uncleaned packagings:**
- **Recommendation:**
Disposal must be made according to official regulations.
Dispose of packaging according to regulations on the disposal of packagings.

*** SECTION 14: Transport information**

- 14.1 UN-Number - ADR, ADN, IMDG, IATA	Void
- 14.2 UN proper shipping name - ADR, ADN, IMDG, IATA	Void
- 14.3 Transport hazard class(es) - ADR, ADN, IMDG, IATA - Class	Void
- 14.4 Packing group - ADR, IMDG, IATA	Void
- 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 and the IBC Code	Not applicable.
- UN "Model Regulation":	Void

*** SECTION 15: Regulatory information**

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
Regulation (EC) n° 1907/2006
Regulation (EC) n° 1272/2008
Regulation (EC) n° 830/2015
Regulation (EC) n° 487/2013
OPChim 813.11
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** Substance is not listed.
- **National regulations**
- **Water hazard class:** Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

*** SECTION 16: Other information**

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing data specification sheet:** Environment protection department.

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- **Contact:** *quality@ecsa.ch*

- **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

- **Sources**

ECHA Registered Substances Database

Regulation (EC) n° 1907/2006

Regulation (EC) n° 1272/2008

Regulation (EC) n° 487/2013

Regulation (EC) n° 830/2015

- * **Data compared to the previous version altered.**

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