

**GLYCERINE 99,5% + 99,7% + 86,5%****Section 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product name: Glycerine 99,5% + 99,7% + 86,5%  
CAS Number: 56-81-5  
EC Number: 200-289-5

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

Product use: Raw material: Chemical industries, Manufacturing of food use

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

**Company name:** East Harbour Group Ltd  
20 Clough Road, Severalls Industrial Park  
Colchester, Essex, CO4 9QS  
United Kingdom

**Telephone:** +44 (0) 333 242 0100  
**Email:** [info@eastharbourgroup.com](mailto:info@eastharbourgroup.com)

**1.4 Emergency telephone number**

**Emergency telephone:** 0800 246 1274

**Section 2: Hazardous 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**

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

**2.2 Label elements**

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

No labelling applicable

**2.3. Other hazards**

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

**GLYCERINE 99,5% + 99,7% + 86,5%****Section 3: Composition/information on ingredients****3.1. Substances**

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Glycerol	CAS-No.: 56-81-5 EC-No.: 200-289-5	86.5 - 99.5	Not classified

**3.2. Mixtures**

Not applicable

**Section 4: First aid measures****4.1 Description of first aid measures**

First-aid measures general:

When in doubt or if symptoms are observed, get medical advice.

First-aid measures after inhalation:

Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact:

Remove dirty clothes. After contact with skin, wash immediately and thoroughly with water and soap.

First-aid measures after eye contact:

Rinse eyes with water as a precaution.

First-aid measures after ingestion:

Call a poison center or a doctor if you feel unwell. Rinse mouth. Drink plenty of water. Do not induce vomiting.

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

No additional information available

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

No additional information available

**Section 5: Fire-fighting measures****5.1 Extinguishing media**

Suitable extinguishing media:

Carbon dioxide. Dry powder. Water spray. Foam. Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media

Strong water jet.

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

Hazardous decomposition products in case of fire:

Toxic fumes may be released. Carbon monoxide. Carbon dioxide. Thermal decomposition generates: Toxic vapours; Corrosive vapours; acrolein; prop-2-enal; acrylaldehyde.

**5.3 Advice for firefighters**

Protection during firefighting:

Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

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Other information: Do not allow run-off from fire fighting to enter drains or water courses. Disposal must be done according to official regulations.

**Section 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures****6.1.1. For non-emergency personnel**

Emergency procedures: Ventilate spillage area.

**6.1.2. For emergency responders**

Protective equipment: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

**6.2 Environmental precautions**

Avoid sub-soil penetration. Prevent entry to sewers and public waters.

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

For containment: Collect spillage.  
Methods for cleaning up: Take up liquid spill into absorbent material. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.  
Other information: Disposal must be done according to official regulations.

**6.4. Reference to other sections**

Information for safe handling. See section 7. Concerning personal protective equipment to use, see section 8. For further information refer to section 13.

**Section 7: Handling and storage****7.1 Precautions for safe handling**

Precautions for safe handling: Wear personal protective equipment. Ensure good ventilation of the work station.  
Hygiene measures: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Storage conditions: Store in a well-ventilated place. Keep container tightly closed. Store in a dry place. Keep away from heat and direct sunlight. Keep cool.  
Information about storage in one: Keep away from strong oxidizers.

common storage facility

Packaging materials: Plastic. Polyethylene (high density). Aluminium. Uncoated stainless steel.

**7.3. Specific end use(s)**

No additional information available

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## Section 8: Exposure controls/personal protection

**8.1 Control parameters****8.1.1 National occupational exposure and biological limit values.**

<b>Glycerol (56-81-5)</b>	
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
Local name	Glycerin
AGW (OEL TWA) [1]	200 mg/m <sup>3</sup> (E)
Peak exposure limitation factor	2(l)
Remark	DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission); Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden
Regulatory reference	TRGS900

**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**

No additional information available

**8.1.5. Control banding**

No additional information available

**8.2 Exposure controls /****8.2.1. Appropriate engineering controls****Appropriate engineering controls:**

Ensure good ventilation of the work station. Wash hands before break and at end of works.

**8.2.2. Personal protection equipment****8.2.2.1. Eye and face protection****Eye protection:**

Use splash goggles when eye contact due to splashing is possible. ISO 16321-1

**8.2.2.2. Skin protection****Skin and body protection:**

Wear suitable protective clothing. EN ISO 13688. EN 13034

**Hand protection:**

In case of repeated or prolonged contact wear gloves. ISO 374-1. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Gloves must be replaced after each use and whenever signs of wear or perforation appear.

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<b>Hand protection</b>					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Chemically resistant protective gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0,35	No additional	EN ISO 374-1
Chemically resistant protective gloves	Butyl rubber	6 (> 480 minutes)	0,5	information available	EN ISO 374-1

**8.2.2.3. Respiratory protection****Respiratory protection:**

Not necessary with sufficient ventilation. In case of inadequate ventilation wear respiratory protection. A-P2. EN 143. Breathing equipment is only to be used in order to handle the residual risk of short term jobs if all other risk minimizing measures have been carried out e.g. retention and/or local exhaust.

**8.2.2.4. Thermal hazards**

No additional information available

**8.2.3. Environmental exposure controls**

Environmental exposure controls:

Avoid release to the environment.

**Other information:**

Do not eat, drink or smoke during use. Separate working clothes from town clothes. Launder separately.

## Section 9: Physical and chemical properties

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

Physical state	Liquid
Colour	colourless.
Appearance	Viscous.
Odour	odourless.
Odour threshold	Not available
Melting point	= 18 °C (99, 7%; 99,5%) / -10°C (86,5%)
Freezing point	Not available
Boiling point	290 °C (99, 7%; 99,5%) / -130°C (86,5%)
Flammability	Not applicable
Explosive properties	Product is not explosive. Explosive vapour/air mixtures may be formed.
Oxidising properties	Non oxidizing
Explosive limits	Not available
Lower explosion limit	2.7 vol % (99,5%) / 0,9 vol% (86,5%)
Upper explosion limit	19 vol % (99,5%) / 11,3 vol% (99,7%)
Flash point	199 °C (99, 7%; 99,5%) / 160°C (86,5%); (closed cup)
Auto-ignition temperature	370 °C (99, 7%; 99,5%) / 400°C (86,5%)
Decomposition temperature	Not available
pH	Neutral
Viscosity, kinematic	1120.635 mm <sup>2</sup> /s
Viscosity, dynamic	1412 mPa.s (99,5%) / 136 mPas (86,5%) (20°C; (OECD 114 method))

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Solubility	Water: 1000 g/l (99,5%; 25°C) Ethanol: Miscible
Partition coefficient n-octanol/water (Log Kow)	-1,76
Vapour pressure	0.0025 mm Hg (99,5%; 50°C)
Vapour pressure at 50°C	Not available
Density	1.26 g/cm <sup>3</sup> (99,5%) / 1,23 g/cm <sup>3</sup> (86,5%); (20°C)
Relative density	Not available
Relative vapour density at 20°C	Not available
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**

Other properties: Surface mN/m

**Section 10: Stability and Reactivity****10.1. Reactivity**

No additional information available.

**10.2. Chemical stability**

No decomposition if stored normally.

**10.3. Possibility of hazardous reactions**

Reacts vigorously with strong oxidizers and acids.

**10.4. Conditions to avoid**

No additional information available.

**10.5. Incompatible materials**

Oxidizing agent. Strong acids.

**10.6. Hazardous decomposition products**

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**Section 11: Toxicological Information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Acute toxicity (oral):	Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal):	Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation):	Not classified (Based on available data, the classification criteria are not met)

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<b>Glycerol (56-81-5)</b>	
D50 oral rat	27200 mg/kg bodyweight
LD50 oral	23000 mg/kg bodyweight (mouse, male)
LC50 Inhalation - Rat (Vapours)	> 2.75 mg/l/4h

Skin corrosion/irritation:	Not classified (Based on available data, the classification criteria are not met) pH: Neutral
Serious eye damage/irritation:	Not classified (Based on available data, the classification criteria are not met) pH: Neutral
Respiratory or skin sensitisation:	Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity:	Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity:	Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity:	Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure:	Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard:	Not classified (Based on available data, the classification criteria are not met)

<b>Glycerol (56-81-5)</b>	
Viscosity, kinematic	1120.635 mm <sup>2</sup> /s

**11.2. Information on other hazards**

No additional information available

**Section 12: Ecological Information****12.1 Toxicity**

Hazardous to the aquatic environment, : Short - term (acute)	Not classified
Hazardous to the aquatic environment, : Long - term (chronic)	Not classified

<b>Glycerol (56-81-5)</b>	
LC50 - Fish [1]	54000 mg/l (96 h; Oncorhynchus mykiss)
EC50 - Crustacea [1]	1955 mg/l (48 h; Daphnia magna)

**12.2. Persistence and degradability**

<b>Glycerol (56-81-5)</b>	
Persistence and degradability	Readily biodegradable.
Biodegradation	94 % (24 h)

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**12.3. Bioaccumulative potential**

<b>Glycerol (56-81-5)</b>	
Partition coefficient n-octanol/water (Log Kow)	-1.76
Bioaccumulative potential	Bioaccumulation unlikely.

**12.4. Mobility in soil**

<b>Glycerol (56-81-5)</b>	
Surface tension	= 63.4 mN/m (20 °C)

**12.5 Results of PBT and vPvB assessment**

<b>Glycerol (56-81-5)</b>	
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII	
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	

**12.6. Endocrine disrupting properties**

No additional information available

**12.7. Other adverse effects**

Other adverse effects: No additional information available

## Section 13: Disposal considerations

**13.1 Waste treatment methods**

Waste treatment methods:

Disposal must be done according to official regulations. European waste catalogue. Do not discharge into drains or the environment. Do not dispose of with domestic waste.

Product/Packaging disposal: recommendations

Avoid release to the environment. Do not re-use empty containers without proper cleaning or reconditioning. Recycle or dispose of in compliance with current legislation.

## Section 14: Transport Information

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

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number or ID number</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.2. UN proper shipping name</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.3. Transport hazard class(es)</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.4. Packing group</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.5. Environmental hazards</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

**14.6. Special precautions for user**

Overland transport

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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

**Section 15: Regulatory Information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****15.1.1. EU-Regulations**

Other information, restriction and:  
prohibition regulations

A safety data sheet is not required for this product under Article 31 of REACH. This Product Safety Information Sheet has been created on a voluntary basis. This safety data sheet is for informational purposes only and does not fully comply with national legal requirements. The national distributor is responsible for a legally compliant safety data sheet.

**REACH Annex XVII (Restriction List)**

Not listed on REACH Annex XVII

**REACH Annex XIV (Authorisation List)**

Not listed on REACH Annex XIV (Authorisation List)

**REACH Candidate List (SVHC)**

Not listed on the REACH Candidate List

**PIC Regulation (Prior Informed Consent)**

Not listed on the PIC list (Regulation EU 649/2012)

**POP Regulation (Persistent Organic Pollutants)**

Not listed on the POP list (Regulation EU 2019/1021)

**Ozone Regulation (1005/2009)**

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

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

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

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

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 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

National Rules and Recommendations:	TRGS 510: Storage of hazardous substances in non-stationary containers. TRGS 900: Occupational Exposure Limits.
Water hazard class (WGK):	WGK I, Slightly hazardous to water (Classification according to AwSV; ID No. 116).
Storage class (LGK, TRGS 510):	LGK 10 - Combustible liquids.
Hazardous Incident Ordinance: (12. BImSchV)	Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out

**Section 16: Other Information**

Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
IATA	International Air Transport Association
DNEL	Derived-No Effect Level
EC50	Median effective concentration
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006

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RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative
DMEL	Derived Minimal Effect level
IARC	International Agency for Research on Cancer
STP	Sewage treatment plant
TLM	Median Tolerance Limit
CAS-No.	Chemical Abstract Service number