

Glycerol solution 49782-1L Revision Date 17.12.2022 Version 1.4 SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. Product identifier Product name : Glycerol solution SDS-number 00000020830 5 Type of product Mixture : Remarks : Document according to Art. 32 of Regulation (EC) 1907/2006. A registration number is not available for this substance as the substance or its uses are exempted from registration. 1.2. Relevant identified uses of the substance or mixture and uses advised against Use of the Laboratory chemicals : Substance/Mixture Industrial use Uses advised against : none 1.3. Details of the supplier of the safety data sheet Honeywell International Inc. Honeywell International, Inc. Company : 115 Tabor Road 115 Tabor Road 07950-2546 Morris Plains Morris Plains, NJ 07950-2546 USA USA Telephone For further information, : SafetyDataSheet@Honeywell.com please contact: 1.4. Emergency telephone number : +1-703-527-3887 (ChemTrec-Transport) Emergency telephone number +1-303-389-1414 (Medical) Country based Poison : see chapter 15.1

SECTION 2: Hazards identification

Control Center

2.1. Classification of the substance or mixture

Page 1 / 15



49782-1L

Version 1.4

Revision Date 17.12.2022

REGULATION (EC) No 1272/2008

Not a hazardous substance or mixture.

2.2. Label elements

REGULATION (EC) No 1272/2008

Not a hazardous substance or mixture.

2.3. Other hazards

Forms slippery/greasy layers with water.

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Chemical name	CAS-No. Index-No. REACH Registration Number EC-No.	Classification 1272/2008	Concentration	Remarks
Glycerol	56-81-5 200-289-5		>= 70 % - < 90 %	N.C.*

N.C.* - Non-hazardous substance - for information only

Remaining components of this product are non-hazardous and/or are present at concentrations below reportable limits.

Occupational Exposure Limit(s), if available, are listed in Section 8. For the full text of the H-Statements mentioned in this Section, see Section 16.

Page 2 / 15



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Glycerol solution

49782-1L

Version 1.4

Revision Date 17.12.2022

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice:

First aider needs to protect himself. Move out of dangerous area. Take off all contaminated clothing immediately.

Inhalation:

If breathed in, move person into fresh air. If symptoms persist, call a physician.

Skin contact:

After contact with skin, wash immediately with plenty of soap and water. If symptoms persist, call a physician.

Eye contact:

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

Ingestion:

When swallowed, allow water to be drunk. Consult a physician if necessary.

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

No data available

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

Treat symptomatically.

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



49782-1L

Version 1.4

Revision Date 17.12.2022

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Water spray Foam Carbon dioxide (CO2) Dry powder

Extinguishing media which shall not be used for safety reasons: High volume water jet

5.2. Special hazards arising from the substance or mixture

Fire may cause evolution of: carbon oxides (CO, CO2). Acrolein

5.3. Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Forms slippery/greasy layers with water Use personal protective equipment.

6.2. Environmental precautions

Should not be released into the environment.

6.3. Methods and materials for containment and cleaning up

Soak up with inert absorbent material. Pick for disposal in tightly closed containers

6.4. Reference to other sections

For personal protection see section 8.

Page 4 / 15



49782-1L

Version 1.4

Revision Date 17.12.2022

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling: Avoid formation of aerosol. Avoid inhalation of vapour or mist.

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

Hygiene measures: General industrial hygiene practice.

7.2. Conditions for safe storage, including any incompatibilities

Further information on storage conditions: Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place.

7.3. Specific end use(s)

no additional data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits:

Components	Basis / Value type	Value / Form of exposure	Exceeding Factor	Remarks
Glycerol	EH40 WEL TWA	10 mg/m3 Mist		

TWA - Time weighted average

DNEL/ PNEC-Values

Component	End- use/impact	Exposure duration	Value	Exposure routes	Remarks

Page 5 / 15



49782-1L

Version 1.4

Revision Date 17.12.2022

Glycerol	Workers / Long-term local effects	56 mg/m3	Inhalation	
Glycerol	Consumers / Long-term local effects	33 mg/m3	Inhalation	
Glycerol	Consumers / Long-term systemic effects	229mg/kg bw/d	Ingestion	

Component	Environmental compartment / Value	Remarks
Glycerol	Fresh water: 0,885 mg/l	Assessment factor: 1000
Glycerol	Marine water: 0,0885 mg/l	Assessment factor: 10000
Glycerol	Sewage treatment plant: 1000 mg/l	Assessment factor: 10
Glycerol	Fresh water sediment: 3,3 mg/kg dw	
Glycerol	Marine sediment: 0,33 mg/kg dw	
Glycerol	Soil: 0,141 mg/kg dw	

8.2. Exposure controls

Occupational exposure controls

The Personal Protective Equipment must be in accordance with EN standards:respirator EN 136, 140, 149; safety glasses EN 166; protective suit: EN 340, 463, 468, 943-1, 943-2; gloves EN 374, 511; safety shoes EN-ISO 20345. Avoid contact with skin and eyes.

Personal protective equipment

Respiratory protection: In the case of vapour formation use a respirator with an approved filter.

Hand protection: Glove material: Natural Latex

Page 6 / 15



Glycerol solution

49782-1L

Version 1.4

Revision Date 17.12.2022

Break through time: > 480 min Glove thickness: 0,6 mm Lapren®706 Gloves must be inspected prior to use. Replace when worn. Remarks:Supplementary note: The specifications are based on information and tests from similar substances by analogy. Due to varying conditions (e.g.temperature or other strains) it must be considered that the usage of a chemical protective glove in practice may be much shorter than the permeation time determined in accordance with EN 374. Since actual conditions of practical use often deviate from standardised conditions according EN 374 the glove manufacturer reccomends to use the chemical protective glove in practice not longer than 50% of the recomended permeation time. Manufacturer's directions for use should be observed because of great diversity of types . Suitable gloves tested according EN 374 are supplied e.g. from KCL GmbH, D-36124 Eichenzell, Vertrieb@kcl.de Eye protection: Safety glasses with side-shields

Skin and body protection: Protective suit

Environmental exposure controls

Handle in accordance with local environmental regulations and good industrial practices.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	liquid
Colour	:	colourless
Odour	:	odourless
molecular weight	:	92,09 g/mol anhydrous substance
Melting point/range	:	20 °C
Boiling point/boiling range	:	290 °C
		Page 7 / 15



Glycerol solution

49782-1L

Version 1.4

Revision Date 17.12.2022

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9.2 Other Information

The product is hygroscopic. Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Viscosity, dynamic	:	No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

No decomposition if used as directed.

10.3. Possibility of hazardous reactions

Page 8 / 15



49782-1L

Version 1.4

Revision Date 17.12.2022

None known.

10.4. Conditions to avoid

Keep away from heat and sources of ignition.

10.5. Incompatible materials

Strong oxidizing agents Strong acids Strong bases

10.6. Hazardous decomposition products

Acrolein

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity: LD50 Species: Guinea pig Value: >= 10.000 mg/kg

Acute dermal toxicity: LD50 Species: Guinea pig Value: 56.750 mg/kg

Acute inhalation toxicity: Not classified due to data which are conclusive although insufficient for classification.

Skin irritation: Species: Rabbit Result: slight irritation

Eye irritation: Species: Rabbit Result: slight irritation

Respiratory or skin sensitisation: No data available

Page 9 / 15



Glycerol solution

49782-1L

Version 1.4

Revision Date 17.12.2022

Carcinogenicity: Note: Not classified due to data which are conclusive although insufficient for classification.

Germ cell mutagenicity: Note: Not classified due to data which are conclusive although insufficient for classification.

Reproductive toxicity: Remarks: Not classified due to data which are conclusive although insufficient for classification.

Aspiration hazard: No data available

11.2. Information on other hazards

Endocrine disrupting properties No data available

Other information: The toxicological data are those of the pure product.

SECTION 12: Ecological information

12.1. Toxicity

Toxicity to fish: LC50 Species: Oncorhynchus mykiss (rainbow trout) Value: 54.000 mg/l Exposure time: 96 h

Toxicity to aquatic plants: ECx Species: Scenedesmus quadricauda Value: > 10.000 mg/l Exposure time: 8 d

Toxicity to aquatic invertebrates: EC50 Species: Daphnia magna (Water flea) Value: > 10.000 mg/l Exposure time: 24 h

Page 10 / 15



Glycerol solution

49782-1L

Version 1.4

Revision Date 17.12.2022

12.2. Persistence and degradability

Biodegradability: Biodegradation: 94 % Exposure time: 24 h Result: Readily biodegradable.

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

No data available

12.6. Endocrine disrupting properties

No data available

12.7. Other adverse effects

Information refers to the main component.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product: Dispose according to legal requirements.

Packaging: Legal requirements are to be considered in regard of reuse or disposal of used packaging materials

Further information: Provisions relating to waste: EC Directive 2006/12/EC; 2008/98/EEC Regulation No. 1013/2006

For personal protection see section 8.

SECTION 14: Transport information

Page 11 / 15



Glycerol solution 49782-1L Revision Date 17.12.2022 Version 1.4 14.1 UN number ADR/RID:Not dangerous goods IMDG:Not dangerous goods IATA:Not dangerous goods 14.2 UN proper shipping name ADR/RID:Not dangerous goods IMDG:Not dangerous goods IATA:Not dangerous goods 14.3 Transport hazard class(es) 14.4 Packaging group 14.5 Environmental hazards ADR/RID:no Marine pollutant: no 14.6 Special precautions for user No data available 14.7 Maritime transport in bulk according to IMO instruments No data available **SECTION 15: Regulatory information** 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Basis	Value	Remarks
Substances of very high concern (SVHC)		This product does not contain substances of very high concern according to Regulation (EC) No Article 57 above the respective regulatory 1907/2006 (REACH), concentration limit of \geq 0.1 % (w/w).

Poison Control Center

Country	Phone Number	Country	Phone Number
Austria	+4314064343	Liechtenstein	+41 442515151
Belgium	070 245245	Lithuania	+370532362052

Page 12 / 15

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Glycerol solution

49782-1L

Version 1.4

Revision Date 17.12.2022

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Czech Republic	+420224919293; +420224915402
Denmark	82121212
Estonia	16662; (+372)6269390
Finland	9471977
France	+33(0)145425959
Greece	+30 210 779 3777
Hungary	(+36-80)201-199
Iceland	5432222
Ireland	+353(1)8092166
Italy	0382 24444
	Berlin : 030/19240
	Bonn : 0228/19240
	Erfurt : 0361/730730
Germany	Freiburg : 0761/19240
Connuny	Göttingen : 0551/19240
	Homburg : 06841/19240
	Mainz : 06131/19240
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Slovenia	+386 1 400 6051
Spain	+34915620420
Sweden	112 (begär Giftinformation);+46104566786
Switzerland	145
United Kingdom	(+44) 844 892 0111

Other inventory information

US. Toxic Substances Control Act On TSCA Inventory

Australia. Inventory of Industrial Chemicals (AIIC), as amended On the inventory, or in compliance with the inventory

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL) All components of this product are on the Canadian DSL

Page 13 / 15



Glycerol solution

49782-1L

Version 1.4

Revision Date 17.12.2022

Japan. Kashin-Hou Law List On the inventory, or in compliance with the inventory

Korea. Existing Chemicals Inventory (KECI) On the inventory, or in compliance with the inventory

Philippines. Inventory of Chemicals and Chemical Substances (PICCS) On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances (IECSC) On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand On the inventory, or in compliance with the inventory

Taiwan Chemical Substance Inventory (TCSI) On the inventory, or in compliance with the inventory

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Further information

All directives and regulations refer to amended versions. Vertical lines in the left hand margin indicate a relevant amendment from the previous version.

Abbreviations: EC European Community CAS Chemical Abstracts Service DNEL Derived no effect level PNEC Predicted no effect level vPvB Very persistent and very biaccumulative substance PBT Persistent, bioaccmulative und toxic substance

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other Page 14 / 15



Glycerol solution

49782-1L

Version 1.4

Revision Date 17.12.2022

materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Page 15 / 15