

SAFETY DATA SHEET

Glycerine

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Issued: 14/07/2025
Revision No: 4

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product identifier:

Product Name: GLYCERINE
EC Number: 200-289-5
CAS No.: 56-81-5

Synonyms:

GLYCEROL, GLYCYL ALCOHOL, 1,2,3 PROPANETRIOL, PRICERINE, GLYCAMED, GLYCERINE 99.5% VEG, GLYCERINE MIN 99.5% PH, GLYCERINE VEG, GLYCERINE VEG FG/PH NCM, GLYCERINE VEG KOSHER FG/PH, GLYCERINE VEG KOSHER FG/PH UNR, GLYCERINE VEGETABLE 99.7%, PALMERA G995E, GLYCERIN 99.5% VEG. PH EUR, GLYCEROL E422 99.5% VEG, GLYCEROL 86.5% VEG, GLYCERIN 99,5%, VEGETABILISK, GLYCERIN MIN 99,5%, GLYCERIN MIN 99,5%, EUR PH, GLYCERIN MIN 99,5% USP, GLYCERIN PHARMA 85%, GLYCEROL E 422 86,5% VEG, GLYCEROL E 422 99,5% VEG SANTA MARIA, GLYCERINE VEG FG/PH KOSH NCM, GLYCERINE VEG FG/PH KSH REFNCM, GLYCERINE VEGETABLE 99.8%, PALMERA G995V, GLYCEROL 2, GLYCERINE 4813, GLYCERINE 4810, Kollisolv G99, GLYCERINE TECH VEG/ANIMAL, GLYCERINE PH EUR 86.5 %, PALMERA G995T, GLYCERINE 99.7%, GLYCERINE TECH GRADE, GLYCERINE FCC ED. 7, GLYCERINE 99.5% TECHNICAL, GLYCEROL 99.5% VEG, GLYCERINE ROO, MOON OU GLYCERINE, SUPEROL KPO GLYCERIN, GLYCAMED 99.7% KOSHER, GLYCERINE 4827, GLYCERINE VEG FG/PH 4808K, GLYCERINE 4810 K, GLYCERINE 4811, GLYCERINE 4811K, GLYCAMED 99.7%, GLYCERINE VEG 86.5% DEMIN, E-GLYCERIN FG KOSHER, GLYCERINE VEG FG/PH KOSHER, GLYCERINE USP/FCC KSH VNY, GLYCERINE VEG FG/PH 4804K OLN, GLYCERINE USP-EP 99.7%, GLYCERINE 4812, GLYCERINE VEGETABLE EP, MASCEROL, 3109931 CREMERGLYC REFINED 99.5%, GLYCERINE RSPO MB, MASCEROL 99.7 ROO FG/EP KSH, MASCEROL 99.7 VEG FG/EP KSH, GLYCERINE 86% PH EUR, SUPEROL K+, GLYCERINE VEG FG/PH 4808K OLN, GLYCERINE 4810 RSPO MB, GLYCERINE CRUDE 80% MIN VEG, GLYCERINE VEG 99.5% PURE, GLYCERINE VEG 99.5% PURE RSPO MB, MASCEROL VEG 99.5% RSPO MB, GLYCATEC 99.5% HQ, GLYCERINE 96% STAR K, GLYCERINE VEG 99.7% E422

Additional Product Information: This product is not classified as hazardous, the information in this datasheet is given for guidance only.

Pure substance/mixture: Substance.

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Details of the supplier of the safety data sheet:

Company name: Nexchem Ltd
Unit 3 Barshaw Park
Leycroft Road
Leicester
LE4 1ET
Tel: 0116 2311130
24/7 Emergency Tel: 0800 246 1274
Email: sales@nexchem.co.uk

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture: Not classified

Label elements: Not classified

Hazard statements: Not classified
EUH210 - Safety data sheet available on request

Other hazards: No information available.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances:

| Chemical name | Weight-% | EC No (EU Index No) | UK REACH reg number | Classification according to GB CLP (SI 2020/1567 as amended) | Specific concentration limit (SCL) | M-Factor | M-Factor (long-term) |
|----------------------|----------|---------------------|---------------------|--|------------------------------------|----------|----------------------|
| GLYCERINE 56-81-5 | 90 -100% | 200-289-5 | - | Not Classified | - | - | - |

Full text of H- and EUH-phrases: See section 16.

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (UK REACH Article 59).

4. FIRST AID MEASURES

Description of first aid measures:

Inhalation: Remove to fresh air. Rinse mouth thoroughly with water. (Get medical attention immediately if irritation persists).

Eye contact: Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a doctor.

Skin contact: Wash skin with soap and water. In the case of skin irritation or allergic reactions see a doctor.

Ingestion: Clean mouth with water and drink afterwards plenty of water. (Get medical attention immediately if symptoms occur).

[cont...]

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Most important symptoms and effects, both acute and delayed:

Eyes: May cause temporary eye irritation.

Indication of any immediate medical attention and special treatment needed:

Note to doctors: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Extinguishing media:

Suitable extinguishing media: Dry chemical, CO₂, alcohol-resistant foam or water spray.

Large Fire: CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media: Do not scatter spilled material with high pressure water streams.

Special hazards arising from the substance or mixture:

Hazardous combustion products: Carbon oxides. Acrolein.

Advice for firefighters:

Special protective equipment and precautions for fire-fighters:

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Cool containers with flooding quantities of water until well after fire is out.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Personal precautions: Avoid contact with skin, eyes and inhalation of vapours. Provide adequate ventilation.

For emergency responders: Use personal protection recommended in Section 8.

Environmental precautions: See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up:

Methods for containment: Prevent further leakage or spillage if safe to do so.

Methods for cleaning up: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Flush area with flooding quantities of water.

Prevention of secondary hazards: Clean contaminated objects and areas thoroughly observing environmental regulations.

Reference to other sections: See section 8 for more information. See section 13 for more information.

7. HANDLING AND STORAGE

Precautions for safe handling:

Advice on safe handling: Avoid contact with skin, eyes and inhalation of vapours. Ensure adequate ventilation.

General hygiene considerations: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product.

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Conditions for safe storage, including any incompatibilities:

Storage Conditions: Keep container tightly closed in a dry and well-ventilated place. Protect from direct sunlight.
Avoid contact with: Oxidising agents.

Specific end use(s): See section 1 for more information.

Risk Management Methods (RMM): The information required is contained in this Safety Data Sheet.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:

Exposure Limits:

| Chemical name | United Kingdom |
|----------------------|---|
| Glycerine 56-81-5 | TWA: 10 mg/m ³ STEL: 30 mg/m ³ |

Biological occupational exposure limits:

This product, as supplied, does not contain any hazardous materials with biological limits established by the region-specific regulatory bodies.

Derived No Effect Level (DNEL) – Workers:

| Chemical name | Oral | Dermal | Inhalation |
|----------------------|------|--------|------------------------------|
| Glycerine 56-81-5 | | | 56 mg/m ³ [5] [6] |

[5] Local health effects.

[6] Long term.

Derived No Effect Level (DNEL) - General Public:

| Chemical name | Oral | Dermal | Inhalation |
|----------------------|--------------------------|--------|------------------------------|
| Glycerine 56-81-5 | 229 mg/kg bw/day [4] [6] | | 33 mg/m ³ [5] [6] |

[4] Systemic health effects.

[5] Local health effects.

[6] Long term.

Predicted No Effect Concentration (PNEC):

| Chemical name | Freshwater | Freshwater (intermittent release) | Marine water | Marine water (intermittent release) | Air |
|----------------------|------------|--------------------------------------|--------------|--|-----|
| Glycerine 56-81-5 | 0.885 mg/L | 8.85 mg/L | 0.0885 mg/L | | |

| Chemical name | Freshwater sediment | Marine sediment | Sewage treatment | Soil | Food chain |
|----------------------|--------------------------|---------------------------|------------------|------------------------|------------|
| Glycerine 56-81-5 | 3.3 mg/kg sediment dw | 0.33 mg/kg sediment dw | 1000 mg/L | 0.141 mg/kg soil dw | |

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Exposure controls:

Engineering controls: Ensure adequate ventilation.

Personal protective equipment:

Eye/face protection: Wear safety glasses with side shields (or goggles). Use eye protection according to EN 166.

Hand protection: Wear protective gloves. Rubber gloves. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. Gloves must conform to standard EN 374.

Skin and body protection: No special protective equipment required.

Respiratory protection: No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Physical state: Liquid
Appearance: Liquid
Colour: Colourless
Odour: No information available
Odour threshold: No information available

| Property | Value | Remarks – Method |
|---|--------------------------|--------------------------|
| Melting point / freezing point | ~ 18°C | |
| Initial boiling point and boiling range | 290°C | |
| Flammability | | No information available |
| Flammability Limit in Air | | No information available |
| Upper flammability or explosive limits | | |
| Lower flammability or explosive limits | | |
| Flash point | > 175°C | Open cup |
| Autoignition temperature | > 370°C | |
| Decomposition temperature | | No information available |
| pH | 5 - 8 | |
| pH (as aqueous solution) | | No information available |
| Kinematic viscosity | | No information available |
| Dynamic viscosity | 1300 - 1500 mPa s @ 20°C | |
| Water solubility | Soluble in water | |
| Solubility(ies) | | |
| Soluble in the following materials | Ethanol, Acetone | |
| Partition coefficient | log Pow: -1.76 | |
| Vapour pressure | < 1 Pa @ 20°C | |
| Relative density | 1.26 @ 20°C | |
| Bulk density | | No information available |
| Liquid Density | No information available | No information available |
| Relative vapour density | ~ 3.17 | |

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Particle characteristics: No information available.
Particle size: No information available
Particle size distribution: No information available
Explosive properties: No information available
Oxidising properties: No information available

10. STABILITY AND REACTIVITY

Reactivity: Stable under normal conditions.

Chemical stability:

Stability: Stable under normal conditions.

Explosion data:

Sensitivity to mechanical impact: None.

Sensitivity to static discharge: None.

Possibility of hazardous reactions: Keep at a temperature not exceeding 200°C.

Hazardous decomposition products will be formed at elevated temperatures.

Acrolein.

Conditions to avoid: Extremes of temperature and direct sunlight.

Incompatible materials: Acids. Alkali. Oxidising agent.

Hazardous decomposition products: Carbon oxides. Acrolein.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Information on likely routes of exposure:

Product Information:

Inhalation: Inhalation of vapours in high concentration may cause irritation of respiratory system.

Eye contact: May cause temporary eye irritation.

Skin contact: May cause slight irritation.

Ingestion: Gastrointestinal discomfort.

Symptoms related to the physical, chemical and toxicological characteristics:

Symptoms: No information available.

Acute toxicity:

Numerical measures of toxicity:

Component Information:

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---------------|-------------------|-------------|---------------------|
| Glycerine | 27200 mg/kg (rat) | 56750 mg/kg | >2.75 mg/L (rat) 4h |

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Delayed and immediate effects as well as chronic effects from short and long-term exposure:

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

GLYCERINE (56-81-5)

| Method | Species | Exposure route | Effective dose | Exposure time | Results |
|--------|---------|----------------|----------------|---------------|--|
| | | | | | Prolonged exposure not likely to cause significant skin irritation |

Serious eye damage/eye irritation: Based on available data the classification criteria are not met.

GLYCERINE (56-81-5)

| Method | Species | Exposure route | Effective dose | Exposure time | Results |
|--------|---------|----------------|----------------|---------------|---|
| | | | | | May cause slight eye irritation Corneal injury is unlikely |

Respiratory or skin sensitisation: No information available.

Germ cell mutagenicity: Based on available data the classification criteria are not met.

GLYCERINE (56-81-5)

| Method | Species | Results |
|--------|----------|----------|
| | In vitro | Negative |

Carcinogenicity: Based on available data the classification criteria are not met.

GLYCERINE (56-81-5)

| Method | Species | Results |
|--------|---------|--|
| | | Did not cause cancer in laboratory animals |

Reproductive toxicity: No information available.

STOT - single exposure: Based on available data the classification criteria are not met.

GLYCERINE (56-81-5)

| Method | Species | Exposure route | Effective dose | Exposure time | Results |
|--------|---------|----------------|----------------|---------------|---|
| | | | | | Evaluation of available data suggests that this material is not an STOT-SE toxicant |

STOT - repeated exposure: Based on available data the classification criteria are not met.

GLYCERINE (56-81-5)

| Method | Species | Exposure route | Effective dose | Exposure time | Results |
|--------|---------|----------------|----------------|---------------|---|
| | | | | | Excessive exposure to glycerine may cause increased fat levels in blood |

Aspiration hazard: No information available.

Other adverse effects: No information available.

[cont...]

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12. ECOLOGICAL INFORMATION

Toxicity:

Ecotoxicity:

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

GLYCERINE (56-81-5)

| Method | Species | Endpoint | Effective dose | Exposure time | Results |
|--------|---|----------|----------------|---------------|---------|
| | Fish Oncorhynchus mykiss (rainbow trout) | LC50 | 54000 mg/L | 96 hours | |
| | Fish | LC50 | >1000 g/l | 96 hours | |
| | Other aquatic organisms | LC50 | >1000 mg/L | 96 hours | |
| | Crustacea Daphnia Magna | EC50 | >10000 mg/L | 24 hours | |
| | Other aquatic organisms Bacteria toxicity | EC50 | >1000 mg/L | | |
| | Fish | TLM | >1000 ppm | 96 hours | |
| | Other aquatic organisms | TLM | >1000 ppm | 96 hours | |
| | Other aquatic organisms Microcystis Aeruginosa | | 2900 mg/L | | |
| | Other aquatic organisms Pseudomonas Putida | | >10000 mg/L | 16 hours | |
| | Algae Scenedesmus quadricauda | | >10000 mg/L | 168 hours | |

Persistence and degradability: Readily biodegradable.

Bioaccumulative potential:

Bioaccumulation: MATERIAL DOES NOT BIOACCUMULATE. Not likely to bioaccumulate.

Component Information:

| Chemical name | Partition coefficient |
|---------------|-----------------------|
| Glycerine | -1.76 – 2.6 |

Mobility in soil: Soluble in water.

Results of PBT and vPvB assessment:

PBT and vPvB assessment: The product does not contain any substance(s) classified as PBT or vPvB.

| Chemical name | PBT and vPvB assessment |
|---------------|-------------------------------|
| Glycerine | The substance is not PBT/vPvB |

Other adverse effects: No information available.

[cont...]

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13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

Waste from residues/unused products: Waste to be treated as controlled waste.

Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.

Contaminated packaging: Do not reuse empty containers.

14. TRANSPORT INFORMATION

IATA:

UN number or ID number: Not regulated

UN proper shipping name: Not regulated

Transport hazard class(es): Not regulated

Packing group: Not regulated

Environmental hazards: Not applicable

Special precautions for user:

Special Provisions: None

IMDG:

UN number or ID number: Not regulated

UN proper shipping name: Not regulated

Transport hazard class(es): Not regulated

Packing group: Not regulated

Environmental hazards: Not applicable

Special precautions for user:

Special Provisions: None

Maritime transport in bulk according to IMO instruments: No information available

RID:

UN number or ID number: Not regulated

UN proper shipping name: Not regulated

Transport hazard class(es): Not regulated

Packing group: Not regulated

Environmental hazards: Not applicable

Special precautions for user:

Special Provisions: None

ADR:

UN number or ID number: Not regulated

UN proper shipping name: Not regulated

Transport hazard class(es): Not regulated

Packing group: Not regulated

Environmental hazards: Not applicable

Special precautions for user:

Special Provisions: None

[cont...]

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15. REGULATORY INFORMATION

Chemical safety assessment: Chemical Safety Report A Chemical Safety Assessment is not required for this substance.

Note: The regulatory information given above only indicates the principal regulations specifically Applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet:

Legend:

SVHC Substances of Very High Concern for Authorisation

Legend Section 8: Exposure controls/personal protection:

| | |
|----------------|----------------------------------|
| TWA | TWA (time-weighted average) |
| STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value |
| * | Skin designation |
| + | Sensitisers |

Classification procedure:

| Classification according to Regulation (EC) No. 1272/2008 [CLP] | Method Used |
|---|--------------------|
| Acute oral toxicity | Calculation method |
| Acute dermal toxicity | Calculation method |
| Acute inhalation toxicity - gas | Calculation method |
| Acute inhalation toxicity - vapour | Calculation method |
| Acute inhalation toxicity - dust/mist | Calculation method |
| Skin corrosion/irritation | Calculation method |
| Serious eye damage/eye irritation | Calculation method |
| Respiratory sensitisation | Calculation method |
| Skin sensitisation | Calculation method |
| Mutagenicity | Calculation method |
| Carcinogenicity | Calculation method |
| Reproductive toxicity | Calculation method |
| STOT - single exposure | Calculation method |
| STOT - repeated exposure | Calculation method |
| Acute aquatic toxicity | Calculation method |
| Chronic aquatic toxicity | Calculation method |
| Aspiration hazard | Calculation method |
| Ozone | Calculation method |

[cont...]

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Key literature references and sources for data used to compile the SDS:

Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)
European Chemicals Agency (ECHA) (ECHA_API)
Environmental Protection Agency
Acute Exposure Guideline Level(s) (AEGL(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
National Institute of Technology and Evaluation (NITE)
Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine's PubMed database (NLM PUBMED)
U.S. National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme
Organisation for Economic Co-operation and Development Screening Information Data Set
World Health Organization

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