

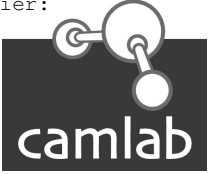
1. Identification

Product Code 1110454

Product Name **GLYCEROL pure**

Molecular Formula **CH₂OHCHOHCH₂OH =92.09**

CAS Number 56-81-5

Supplier: **CAMLAB LIMITED**
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2. Composition

| Component | CAS No | EEC No | Conc w/w | Classification & Risk Phrases | Exp (See 8.1) |
|-----------|---------|-----------|----------|-------------------------------|---------------|
| Glycerol | 56-81-5 | 200-289-5 | > 99.0% | None | N/A |

3. Hazards Identification

Not considered harmful

4. First Aid Measures

Eyes Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. If discomfort persists OBTAIN MEDICAL ATTENTION.

Skin Wash off skin thoroughly with water.

Inhalation Remove from exposure.

Ingestion Wash out the patients mouth thoroughly with water. Do not induce vomiting.

5. Fire Fighting Measures

Hazards Not combustible but assists burning. Presents no specific health hazard if involved in a fire.

Extinguishing Media Alcohol resistant foam, dry powder, or carbon dioxide. Use water spray to keep fire exposed containers cool.

Unsuitable Media Nothing specified.

6. Accidental Release Measures

Personal Protection Presents no major hazards. Do not allow other people to enter area.

Environmental Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local Environmental Health Officer if major spillage occurs.

6. Accidental Release Measures (continued)

| | |
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| Major Spillage | Contain and absorb on inert material. Transfer absorbent to salvage container for removal. Wash area down with copious amounts of water. |
| Minor Spillage | Wash area down with copious amounts of water. |

7. Storage & Handling

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|----------------------|--|
| Handling Precautions | Avoid contact with skin and eyes. Do not breath vapours. Do not allow to contaminate clothing. Ensure Local Exhaust Ventilation maintains vapour concentrations below the recommended limits. |
| Storage Conditions | Well ventilated, cool, dry storage . Protect from direct sun and store away from sources of ignition. Keep containers closed when not in use. Keep well separated from oxidising agents. |

8.1 Workplace Exposure Limits

No prescribed exposure limits available

8.2 Personal Protection

| | |
|-------------|---|
| Respiratory | Use L.E.V. or natural ventilation to maintain vapour concentrations below exposure limits. If not, use a well maintained chemical cartridge organic vapour respirator, or use self contained breathing apparatus. |
| Hands | Use solvent resistant gloves. |
| Eyes | Use chemical splash proof glasses or goggles. |
| Skin | Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn. |

9. Physical & Chemical Properties

| | |
|-----------------------|----------------------------------|
| Appearance | Clear colourless viscous liquid. |
| Odour | Odourless. |
| pH | Not available |
| Boiling point | 290.0 °C |
| Melting point | 17.9 °C |
| Flash point | 199.0 °C(DIN 51755) |
| Upper Flammable Limit | Not available |
| Lower Flammable Limit | Not available |
| Auto Ignition | 370.0 °C |
| Explosive properties | Slight. |
| Oxidising Properties | No. |
| Vapour Pressure | 0.0025 mm Hg @ 20 C |
| Relative Density | 1.2600 |
| Water Solubility | Completely miscible in water. |

10. Stability & Reactivity

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|----------------------------------|---|
| Chemical Stability | Stable under normal conditions |
| Conditions to Avoid | Hot surfaces, naked flames or other sources of ignition. |
| Materials to Avoid | Strong oxidising agents. Hydrogen peroxide, chromium trioxide and potassium permanganate. Nitric/sulphuric acid mixtures. Perchloric and hydrofluoric acids |
| Hazardous Decomposition Products | None unusual. Burning will produce smoke, carbon monoxide and/or carbon dioxide. |

11. Toxicological Information

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|----------------------|---|
| Eyes | High concentrations of vapour may be irritating to the eyes. |
| Skin | Presents no significant hazard by skin contact. |
| LD50 Skin | Not available |
| Ingest | Ingestion of large amounts may cause headache, dizziness, nausea, vomiting, thirst and convulsions. |
| LD50 Ingest | Oral Rat > 20 ml/kg |
| Inhalation | High concentrations of vapour may produce irritation of the eyes, nose, throat and respiratory tract. |
| Carcinogenicity | Not considered to be a carcinogen. |
| Mutagenicity | Not considered to be a mutagen. |
| Reproductive Effects | None identified. |
| Other Information | Used throughout the food and cosmetics industries. |

12. Ecological

Readily bio-degraded in the environment.

13. Disposal Considerations

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|------------------------|---|
| Disposal Methods | Dispose of in a licensed incinerator for organic solvents. Do not dispose of as domestic waste. |
| Contaminated Packaging | Use a licensed waste disposer. Wash out containers with water. |

14. Transport Information

| | |
|----------------------|---------------------|
| Proper Shipping Name | Non-restricted |
| UN Number | Non-restricted |
| UN Classification | None |
| Subsidiary Risk | None |
| Flash Point | 199.0 °C(DIN 51755) |
| Packing Group | None |
| Transport Category | None |
| Marine pollutant | No |
| ADR Hazard ID | Non-restricted |

15. Regulatory Information

| | |
|-----------------------|-----------|
| Labelling | None |
| Classification | |
| Label Symbols | None |
| Risk & safety Phrases | None |
| EEC Number | 200-289-5 |

16. Other Information

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|----------------------|---|
| Document Information | This document has been prepared in accordance with directive 88/379/EEC. The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. Revision Date: 12/06/96. Data reviewed and PDF file generated: 17/03/10. Copyright 2010 Camlab Limited. |
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