

1: Identification of substance / mixture

1. Product Identifier

Substance

Product Name **Glycerol**
Product Code G1345
CAS Number 56-81-5
Other Names Glycerin
IUPAC
MFCN Number
EC/EINECS 200-289-5
REACH Number

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

Laboratory Research and Development Use

3. Details of the supplier of the safety data sheet

Melford Laboratories Ltd
Bildeston Road, Chelsworth
Ipswich
Suffolk
IP7 7LE
UK



Telephone: 01449 741178
Fax number: 01449 741217
Email: support@melford.co.uk

4. Emergency telephone number

+44 (0)1449 741178

2. Hazards Identification

1. Classification of the substance or mixture

None Hazardous

2. Label elements

None Hazardous

Hazard Statements

None Hazardous

Precautionary Phrases

None Hazardous

3. Other Hazards

None Hazardous

3. Composition / Information on Ingredients

1. Substances

Glycerol

Assay: 100% CAS Number : 56-81-5

2. Mixtures

Not Relevant

4. First Aid Measures

1. Description of first aid measures

Skin Contact Wash with plenty of soap and water.

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<i>Eye Contact</i>	Bathe the eye with running water for 15 minutes.
<i>Ingestion</i>	Wash out mouth with water. Consult a doctor.
<i>Inhalation</i>	Supply fresh air; consult a doctor in case of complaints.

2. Most important symptoms and effects

There may be mild irritation at the site of contact.
There may be irritation to mucous membranes and upper respiratory tract.

3. Indication of any immediate medical attention

No additional measures required

5. Firefighting measures

1. Extinguishing Media

Suitable Water spray.
Carbon dioxide.
Alcohol or polymer foam.
Dry chemical powder.

Unsuitable None

2. Special Hazards arising from the substance or mixture

NA

3. Advice for Fire Fighters

Wear self-contained breathing apparatus.

6. Accidental Release Measures

1. Personal Precautions

Refer to section 8 of SDS for personal protection details.

2. Environmental Precautions

Do not discharge into drains or rivers.

3. Methods & Materials

Absorb into dry earth or sand.
Transfer to a closable, labelled salvage container for disposal by an appropriate method.
Wash the spillage site with large amounts of water.

7. Handling and Storage

1. Personal Precautions

Safe Handling Avoid direct contact with the substance.

Protection against explosions and fires No special requirements

2. Conditions for safe storage, including any incompatibilities

<i>Managing Storage Risks</i>	No special requirements.
<i>Storage Controls</i>	No special requirements
<i>Maintaining Integrity</i>	No special requirements
<i>Other advice</i>	no further information available

3. Specific End Uses

The end use(s) have not been fully determined. The substance is supplied for Research and Development purposes by professionals only.

8. Exposure Controls/Personal Protection

1. Control Parameters

No Data Available

2. Exposure Controls

<i>General protective and hygiene measures</i>	The standard precautionary measures should be adhered to when handling
<i>Engineering measures</i>	Ensure there is sufficient ventilation of the area.
<i>Eye / Face Protection</i>	Safety Glasses.
<i>Hand protection</i>	Protective gloves.
<i>Respiratory protection</i>	Respiratory protective device with particle filter.
<i>Skin protection</i>	Protective clothing.
<i>Other personal protection advice</i>	no data

9. Physical and Chemical Properties

1. Physical and Chemical Properties

Appearance	Clear liquid
Odour	None
Odour threshold	Not Applicable
PH	5.5-8
Melting point / Freezing point	20°C
Initial boiling point and boiling range	100°C
Flash point	160°C
Evaporation rate	Not Applicable
Flammability(solid,gas)	Not Applicable
Upper/lower flammability or explosive limits	Not Applicable
Vapour pressure	Not Applicable
Vapour density	3.18
Relative density	1.25 g/ml
Solubility(ies):	Soluble in water

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Partition coefficient: n-octanol/water	Not Applicable
Auto-ignition temperature	Not Applicable
Decomposition temperature	Not Applicable
Viscosity	Not Applicable
Explosive properties	Not Applicable
Oxidising properties	Not Applicable

2. Other Information

No additional information available

10. Stability and Reactivity

1. Reactivity

no unusual reactivity

2. Stability

Stable under normal conditions.

3. Possibility of Hazardous Reactions

no hazardous reactions known

4. Conditions to Avoid

No specific conditions to avoid.

5. Incompatible Materials

Strong oxidizing agents.

6. Hazardous Decomposition Products

In combustion emits toxic fumes.

11. Toxicology information

1. Information

<i>Acute Toxicity</i>	Oral LD50 (rat) > 12,600 mg/kg Dermal LD50 (rabbit) >10,000 mg/kg
<i>Skin corrosion/irritation</i>	no data
<i>Serious eye Damage/irritation</i>	no data
<i>Respiratory or skin sensitisation</i>	No sensitizing effect known
<i>Germ Cell mutagenicity</i>	no data
<i>Carcinogenicity</i>	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
<i>Reproductive toxicity</i>	not known
<i>STOT-single exposure</i>	not known
<i>STOT-repeated exposure</i>	not known

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Aspiration hazard not known

2.Additional

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

12.Ecological Information

1.Toxicity

not known

2.Persistence and degradability

not known

3.Bio-Accumulative Potential

not known

4.Mobility and Soil

not known

5.Results of PBT & vPvB assessment

not known

6.Other adverse effects

not known

13.Disposal Considerations

1.Waste Treatment Methods

Disposal Operations Consult state, local or national regulations for proper disposal.

Disposal of Packaging Disposal must be made according to official regulations.

14. Transport Information

Air (ICAO)

Not classified as hazardous for transport

Road (ADR)

Not classified as hazardous for transport

Sea (IMDG)

Not classified as hazardous for transport

15. Safety, health and environmental regulations**1. Safety, health and environmental regulations:**

product is not subject to any additional regulations or provisions

2. Safety Assessment

No Chemical Safety Assessment

16. Other Information**1. Other Information:**

ADR: Accord Europeen sur le transport des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by road)

RID: Reglement International concernant le transport des marchandises dangereuses par chemin de fer (Regulations concerning the International transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the International Air Transport Association

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the ICAO

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service

2. Associated risk phrases according to european directive 67/548/EEC**3. Disclaimer**

The product listed is for research and development purposes only and not for human or animal use. As such, in most cases, the toxicological, ecological and physicochemical properties have not been fully determined and the product should be treated with respect and always handled under suitable conditions by appropriately qualified personnel. The responsible party shall use this datasheet only in conjunction with other sources of information gathered by them, and should make an independent judgement of suitability, to ensure proper use and protect the health and safety of employees. This information is furnished without warranty and any use of the product not in conformance with this material safety data sheet, or in combination with any other product or process, is the responsibility of the user.