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Glycerine

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## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY NAME

**PRODUCT NAME:** Glycerine  
**SYNONYMS:** 1,2,3 Propanetriol  
Glycerol  
Glycyl Alcohol  
**INCI NAME:** Glycerin  
**REACH REGISTERED No.** Exemption under Annex V.  
**USE OF SUBSTANCE:** Anti-freezing agent. Chemical intermediate. Chemical manufacturing. Food additive. Personal care products. Plasticiser. Solvent.

**SUPPLIER:**  
Lubrisolve Engineering Solutions Ltd.  
Unit 3  
Lumberline Business Park  
South Hill  
Somerton  
Somerset  
TA11 7JQ  
Tel. +44 (0)458 241241  
e-mail: [enquiries@lubrisolve.co.uk](mailto:enquiries@lubrisolve.co.uk)

## 2. HAZARDS IDENTIFICATION

**CLASSIFICATION UNDER CLP:**  
This product has no classification under CLP.

**LABEL ELEMENTS:**  
This product has no label elements.

**OTHER HAZARDS:**  
This substance is not identified as a PBT substance.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**CHEMICAL IDENTITY:**  
Glycerine.  
**CAS REGISTRY NO.:**  
56-81-5.  
**EINECS NO.:**  
200-289-5.

## 4. FIRST AID MEASURES

**EYE CONTACT:**  
May cause mild irritation. Repeated exposure may cause chronic eye irritation. Bathe the eye with running water for 15 minutes. Consult a doctor.

**SKIN CONTACT:**  
May cause mild irritation to areas of broken or sensitive skin. Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. If irritation develops or persists seek medical attention.



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**INGESTION:**

May cause mild irritation of the gastrointestinal tract if large quantities are ingested. Nausea and stomach pain may occur. There may be vomiting and diarrhoea. If conscious, wash the mouth out with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. If irritation develops or persists seek medical attention.

**INHALATION:**

Not applicable under normal conditions of use. Prolonged inhalation of mists may cause lung inflammation. May cause irritation of the mucous membranes and respiratory system. Remove casualty from exposure ensuring ones own safety whilst doing so. If unconscious, check for breathing and apply artificial respiration if necessary. If symptoms develop seek medical attention.

**DELAYED/IMMEDIATE EFFECTS:**

Toxicological data is based on animal data. No symptoms.

**IMMEDIATE/SPECIAL TREATMENT:**

Not applicable.

**5. FIRE FIGHTING MEASURES**

**EXTINGUISHING MEDIA:**

Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool fire exposed surfaces.

**EXPOSURE HAZARDS:**

The product does not support combustion. In a fire may liberate acrid and irritant fumes. In combustion emits toxic fumes of carbon di-oxide/ carbon mon-oxide. Acrolein.

**PROTECTION FOR FIRE-FIGHTERS:**

Wear self contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

**6. ACCIDENTAL RELEASE MEASURES**

**PERSONAL PRECAUTIONS:**

Wear suitable protective clothing. Do not attempt to take action without suitable protective clothing – see Section 8.

**ENVIRONMENTAL PRECAUTIONS:**

Do not discharge into drains or rivers. Contain the spillage using bunding.

**CLEAN-UP PROCEDURES:**

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

**7. HANDLING AND STORAGE**

**HANDLING:**

Wear suitable protective clothing. Avoid the formation or spread of mists in the air. Avoid contact with the material. Causes slippery surface when spilled.

**STORAGE:**

Store in cool, well ventilated area. Keep containers tightly closed. Protect from low temperatures and frost.

**SUITABLE PACKAGING:**

Must only be kept in original packaging.



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## 8. EXPOSURE CONTROL/PERSONAL PROTECTION

### WORKPLACE EXPOSURE LIMITS:

Respirable dust UK: 8 hour TWA – 10mg/m<sup>3</sup> (mist).

### ENGINEERING MEASURES:

Ensure all engineering measures mentioned in Section 7 are in place.

### EYE PROTECTION:

Safety goggles. Ensure eye bath is to hand.

### SKIN PROTECTION:

Protective clothing and boots.

### RESPIRATORY PROTECTION:

Not normally required under normal conditions of use and with adequate ventilation. Respiratory protection must be used if there is a risk of fumes or misting. Particle filter class P1 (EN143). Gas/vapour filter Type A: organic vapours (EN141).

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE:</b>	Liquid
<b>COLOUR:</b>	See other information.
<b>ODOUR:</b>	Barely perceptible odour.
<b>EVAPORATION RATE:</b>	Negligible.
<b>OXIDISING:</b>	Non-oxidising by EC criteria.
<b>SOLUBILITY IN WATER:</b>	Soluble.
<b>ALSO SOLUBLE IN:</b>	Ethanol.
<b>VISCOSITY:</b>	Viscous.
<b>BOILING POINT (°C):</b>	> 290.
<b>FLAMMABILITY LIMITS % LOWER:</b>	2.6.
<b>FLASH POINT (°C):</b>	~160.
<b>AUTOFLAMMABILITY (°C):</b>	~400.
<b>RELATIVE DENSITY @ 20°C:</b>	~1.26g/ml.
<b>MELTING POINT (°C):</b>	~18.
<b>PART. COEFFICIENT n-OCTANOL/WATER:</b>	~ -1.76/2.6.
<b>VAPOUR PRESSURE:</b>	<0.1 hPa @ 20°C.
<b>pH:</b>	~5 (100g/l Aqu.).
<b>OTHER INFORMATION:</b>	EP and high purity grades of glycerine are generally colourless to pale yellow. Technical grade material can vary from colourless to dark brown dependent on the specific grade.



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## 10. STABILITY AND REACTIVITY

### REACTIVITY:

Stable under recommended transport or storage conditions.

### CHEMICAL STABILITY:

Stable under normal conditions.

### HAZARDOUS REACTIONS:

Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

### CONDITIONS TO AVOID:

Heat. Low temperatures and frost.

### MATERIALS TO AVOID:

Oxidising agents. Halogens. Peroxides. Nitric acid. Sulphuric acid. Hydrogen peroxide.

### HAZARDOUS DECOMPOSITION PRODUCTS:

In combustion emits toxic fumes of carbon di-oxide/carbon mon-oxide. Acrolein.

## 11. TOXICOLOGICAL INFORMATION

### ORAL:

Rat LD50 12600mg/kg.

### DERMAL:

Rabbit LD50 >10000mg/kg.

### SKIN CONTACT:

May cause mild irritation to areas of broken or sensitive skin.

### EYE CONTACT:

May cause mild irritation. Repeated exposure may cause chronic eye irritation.

### INGESTION:

May cause mild irritation of the gastrointestinal tract if large quantities are ingested. Nausea and stomach pain may occur. There may be vomiting and diarrhoea.

### INHALATION:

Not applicable under normal conditions of use. Prolonged inhalation of mists may cause lung inflammation. May cause irritation of the mucous membranes and respiratory system.

### DELAYED/IMMEDIATE EFFECTS:

Toxicological data is based on animal data. No symptoms.

## 12. ECOLOGICAL INFORMATION

### ECOTOXICITY VALUES:

Daphnia magna: 24H EC50 Test >10000mg/l.

Bacteria/Activated sludge: 48H Test >1000mg/l.

Rainbow trout: 96H LC50 Test 54000mg/l.

### PERSISTENCE AND DEGRADABILITY:

Biodegradable.

### BIOACCUMULATIVE POTENTIAL:

Product is not expected to bio accumulate.



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**MOBILITY IN SOIL:**

Soluble in water. Non-volatile.

**PBT IDENTIFICATION:**

This substance is not identified as a PBT substance.

**OTHER ADVERSE EFFECTS:**

Not expected to cause significant environmental impact. Do not allow to enter water courses or soils. Spillage in sewers or waterways must be avoided.

**13. DISPOSAL CONSIDERATIONS**

**DISPOSAL OPERATIONS:**

Transfer to a suitable container and arrange for collection by specialised disposal company.

**RECOVERY OPERATIONS:**

No information available at this time.

**DISPOSAL OF PACKAGING:**

Contaminated containers must not be treated as household waste. Where practical, containers and packaging should be recycled by a licensed contractor (note regional or national regulations).

**14. TRANSPORT INFORMATION**

**TRANSPORT CLASS:**

This product does not require a classification for transport.

**15. REGULATORY INFORMATION**

**SPECIFIC REGULATIONS:**

Exemption from registration under REACH in accordance with Annex V. Commission decision 96/335/EC establishing an inventory and a common nomenclature of ingredients employed in cosmetic products (INCI). Council Directive 76/768/EEC on the approximation of the laws of the Member States relating to cosmetic products. Regulation (EC) No. 1223/2009 of the European Parliament and of the Council on cosmetic products.

**CHEMICAL SAFETY ASSESSMENT:**

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

**16. OTHER INFORMATION**

This safety data sheet is prepared in accordance with Commission Regulation (EU) No. 453/2010.

**Further information:**

The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and does not constitute a legal relationship.

The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.





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**LEGAL DISCLAIMER:**

The information provided in this safety data sheet is correct to the best of our knowledge at the time of publication. It is given in good faith but no warranty is implied with respect to the quality and specification of the product. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and does not constitute a legal relationship. The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

The customer must satisfy themselves that the product is entirely suitable for their own purposes.

Although certain hazards may be described we cannot predict that these are the only hazards, or combination of hazards, that may exist in a workplace. This MSDS, therefore, forms a component only of a risk assessment carried out by, or on behalf of, the user.

MATERIAL SAFETY DATA SHEET