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Monopropylene Glycol

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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY NAME

PRODUCT NAME: Monopropylene Glycol
SYNONYMS: Propane-1, 2-Diol
1,2-DiHydroxypropane
1,2-Propandiol
REACH REGISTERED No. 01-2119456809-XXXX
USE OF SUBSTANCE: Organic Solvent. Coolant. Anti-freezing Agent. Chemical manufacturing.
SUPPLIER: Lubrisolve Engineering Solutions Ltd.
Unit 3, Lumberline Business Park
South Hill
Somerton
Somerset.
TA11 7JQ
Tel. +44 (0)1458 241241
e-mail: 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:
Monopropylene Glycol.
CAS REGISTRY NO.:
57-55-6.
EINECS NO.:
200-338-0.

4. FIRST AID MEASURES

EYE CONTACT:
Bathe the eye with running water for 15 minutes. Consult a doctor.

SKIN CONTACT:
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.

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.



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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:

Immediate effects can be expected after short term exposure.

IMMEDIATE/SPECIAL TREATMENT:

No special requirements.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA:

Water spray. Carbon dioxide. Alcohol or polymer foam. Dry chemical powder. Use water spray to cool containers. Use water spray to reduce vapours. Do not use water in a jet.

EXPOSURE HAZARDS:

In combustion emits toxic fumes of carbon di-oxide/ carbon mon-oxide. Keep containers exposed to fire cool with water spray. Non-flammable, but will support combustion.

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. Eliminate all sources of ignition.

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. Ensure there is sufficient ventilation of the area. Avoid the formation or spread of mists in the air. Avoid contact with the material and breathing its vapours.

STORAGE:

Store in cool, well ventilated area. Keep away from sources of ignition. Keep containers tightly closed. Avoid incompatible materials and conditions – see section 10.

SUITABLE PACKAGING:

Steel drums. Aluminium containers. Polyethylene. Some rubbers and plastics are attacked by the product.

SPECIFIC END USE:

No data available.



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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

WORKPLACE EXPOSURE LIMITS:

8 hour TWA – 15 min. STEL.

RESPIRABLE DUST:

8 hour TWA – 15 min. STEL. U.K. 150ppm (474 mg/m³).

ENGINEERING MEASURES:

Ensure there is sufficient ventilation of the area. Ensure all engineering measures mentioned in Section 7 are in place.

HAND PROTECTION:

Gloves (solvent resistant).

EYE PROTECTION:

Safety goggles. Ensure eye bath is to hand.

SKIN PROTECTION:

Protective clothing and boots. Ensure safety shower is to hand.

RESPIRATORY PROTECTION:

Gas/vapour filter – Type A: organic vapours (EN141). Wear suitable respiratory protection when aerosols or mist are present.

ENVIRONMENTAL:

No special requirement.

9. PHYSICAL AND CHEMICAL PROPERTIES

STATE:	Liquid
COLOUR:	Colourless.
ODOUR:	Odourless.
EVAPORATION RATE:	Negligible.
OXIDISING:	Non-oxidising by EC criteria.
SOLUBILITY IN WATER:	Soluble.
ALSO SOLUBLE IN:	Most organic solvents.
VISCOSITY:	Non-viscous.
BOILING POINT (°C):	~185.
FLAMMABILITY LIMITS % LOWER:	2.6.
FLAMMABILITY LIMITS % UPPER:	12.6.
FLASH POINT (°C):	99.
AUTOFLAMMABILITY (°C):	>400.
RELATIVE DENSITY @ 20°C:	~1.03g/ml.
MELTING POINT/RANGE(°C):	<-20.
PART. COEFFICIENT n-OCTANOL/WATER:	-1.07
VAPOUR PRESSURE:	20Pa @ 25°C.
pH:	Neutral.



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10. STABILITY AND REACTIVITY

REACTIVITY:

Stable under recommended transport or storage conditions.

CHEMICAL STABILITY:

Stable under normal conditions. Hygroscopic.

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. Hot surfaces. Sources of ignition. Flames. Static discharge. Moist air. Humidity. Moisture.

MATERIALS TO AVOID:

Strong acids. Strong alkalis. Strong oxidising agents.

HAZARDOUS DECOMPOSITION PRODUCTS:

In combustion emits toxic fumes of carbon di-oxide/carbon mon-oxide. In a fire may liberate acrid and irritant fumes.

11. TOXICOLOGICAL INFORMATION

ORAL:

Rat LD50 20000mg/kg.

DERMAL:

Rabbit LD50 >10000mg/kg.

SKIN CONTACT:

There may be mild irritation at the site of contact. There may be mild discomfort and redness. May cause dermatitis and defatting of the skin.

EYE CONTACT:

There may be irritation and redness.

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:

Immediate effects can be expected after short term exposure.

12. ECOLOGICAL INFORMATION

ECOTOXICITY VALUES:

Ceriodaphnia dubia: 48H EC50 Test 18340mg/l.

Mysid shrimp (Mysidopsis bahia): 96H LC50 Test 18800mg/l.

Rainbow trout (Oncorhynchus mykiss): 96H LC50 Test 40613mg/l.

Green alga (Selenastrum capricornutum): 96H EC50 Test 19000mg/l.

PERSISTENCE AND DEGRADABILITY:

The product is readily biodegradable.



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PERSISTENCE RESULT:

81.7% (Exposure time: 28 days)(OECD 301F).

BIOACCUMULATIVE POTENTIAL:

Product is not expected to bio accumulate.

MOBILITY IN SOIL:

Soluble in water. Non-volatile. Readily absorbed into soil.

PBT IDENTIFICATION:

This substance is not identified as a PBT substance.

BIOCONCENTRATION FACTOR:

<2000.

BIOACCUMULATION RESULT:

Not B-.

TOXICITY RESULT:

Not T-.

NOEC FOR MARINE OR FRESH WATER ORGANISMS:

>0.1.

OTHER ADVERSE EFFECTS:

Negligible ecotoxicity. 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:

Not applicable.

CHEMICAL SAFETY ASSESSMENT:

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



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16. OTHER INFORMATION

Other information:

This SDS is prepared in accordance with EU Regulation 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.

16. OTHER INFORMATION (CONTINUED)

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.

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 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 SDS, therefore, forms a component only of a risk assessment carried out by, or on behalf of, the user.

MATERIAL SAFETY DATA SHEET