SAFETY DATA SHEET



Product Name:

MONOPROPYLENE GLYCOL

Version No. **Revision date** 03-11-2015 Initial issue date 29-07-2003

1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND OF THE COMPANY

1.1 Product Identifier MONOPROPYLENE GLYCOL (PROPANE-1,2-DIOL)

1.2 Relevant/Use(s)/misuse(s) Industrial

1.3 SDS Supplier **Beacon Water Treatments Limited**

Parsons Hall Industrial Estate

High Street **Telephone:** 01933 410066

Irchester, NN29 7AB

01604 505735 (Office Competent Person e-mail: trevor@rising-hsande.co.uk 1.4 Emergency Telephone

hours)

2. HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE

2.1.1 Classification according to Regulation (EC) No 1272/2008 (CLP/GHS)

Not classified

2.2 LABELLING ELEMENTS

2.2.1 Labelling in accordance with EC Regulation No 1272/2008 (CLP/GHS)

Pictogram(s): NONE Signal word NONE

Hazard

NONE

statement(s)

Precautionary statement(s)

NONE

2.3 Other hazards THE PRODUCT HAS A WORKPLACE EXPOSURE LIMIT (WEL)

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Characterisation MONOPROPYLENE GLYCOL

EINECS/ELINCS Classification Concentration Chemical name CAS-No MONOPROPYLENE GLYCOL Not classified 57-55-6 200-338-0 ≤ 100%

4. FIRST AID MEASURES

4.1 Description of measures

Inhalation Not normally a route of exposure

Skin contact No special first aid measures necessary

Eye contact Wash out eye thoroughly with plenty of water until irritation subsides. If necessary, seek

medical advice.

Product Name: MONOPROPYLENE GLYCOL

4. FIRST AID MEASURES

Ingestion If product is swallowed, do NOT induce vomiting. Drink plenty of water; if necessary, seek

medical advice.

4.2 Most important effects/symptoms

None known.

4.3 Immediate/special

treatment

Treatment as described above.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing mediaTo suit local surroundings (e.g. water mist, carbon dioxide, foam, chemical powder for

large fires). The product is not flammable. Do not use strong water jets.

5.2 Special hazards Decomposition products released in a fire should be considered as probably harmful if

inhaled.

5.3 Advice for fire fighters Wear self-contained breathing apparatus. Cool containers with water spray.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions Adhere to personal protective measures.

6.2 Environmental

precautions

Do not allow to get into waste water or waterways; if this occurs, inform the relevant water authority at once.

6.3 Methods and materials for

cleaning up

Take up with absorbent material, e.g. sand, sawdust, into tightly closed containers. Label

container and dispose of as prescribed

6.4 Reference to other

sections

See section 8 for personal protective equipment.

7. HANDLING AND STORAGE

7.1 Precautions for safe

handling

Handle in accordance with good hygiene and safety practice.

7.2 Conditions for safe

storage

Ensure adequate ventilation of the storage area. Keep containers tightly closed, cool and

dry.

7.3. Specific end use(s) Industrial

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Controls parameters Occupational Exposure Limits (WELs) have been assigned (EH40/2011).

LTEL (8 hour TWA) 150 ppm 474 mg/m³ Vapour and particulates

LTEL (8 hour TWA) 0.3 ppm 0.84 mg/m³ Particulates

8.2 Exposure controls

Engineering controls Ensure adequate ventilation of working area.

Personal protection Observe normal standards for handling chemicals.

Wash hands before breaks and after work.

Avoid contact with skin and eyes.

Wear personal protective equipment appropriate to the task (see below)

Eye protection Safety goggles (e.g. EN 166) if splashing is likely.

Skin protection PVC or rubber gloves (also consider your own risk assessment; e.g. breakthrough times,

rates of diffusion and degradation, tasks undertaken)

Respiratory protection If ventilation is insufficient

Other protection Protective overall

9. PHYSICAL & CHEMICAL PROPERTIES

9.1 Basic physical and chemical properties

Physical form Liquid

Colour Colourless

Odour None

Odour threshold No data available

pH ca. 7.0

Boiling pt / range ca. 180 °C

Melting pt / range -60 °C

Flash point ca. 109 °C

Auto ignition temp. 371 °C

Evaporation rate Not applicable

Density ca. 1.04 g/cm³ @ 25°C

Flammability Not applicable

Explosion limits Not applicable

Vapour pressure ca. 0.1 hPa @ 20°C

Relative vapour density Not determined

Water solubility Miscible

Thermal decomposition No data available

Viscosity (dynamic) ca. 46 mPa.s @ 25°C

Partition coefficientLog $P_{o/w} = -0.78$ Explosive propertiesNot applicableOxidising propertiesNot applicable9.2 Other informationNone known

10. STABILITY AND REACTIVITY

10.1 Reactivity Stable under normal conditions of handling.

10.2 Chemical stability Stable

10.3 Hazardous reactions None known.

10.4 Conditions to avoid Moisture, exposure to light, high temperatures and incompatible substances

10.5 Incompatible material Strong oxidising agents, acids and isocyanates

10.6 Hazardous None

decomposition products

11. TOXICOLOGICAL INFORMATION

Product Name: MONOPROPYLENE GLYCOL

11. TOXICOLOGICAL INFORMATION

11.1 information on toxicological effects

Acute toxicity LD₅₀ rat (oral) 22000 mg/kg

LD₅₀ rabbit (derm) >2000 mg/kg

Dermal compatibility

Mucous membrane

compatibility

No data available

No data available

12. ECOLOGICAL INFORMATION

12.1 Toxicity LC₅₀ Fish (rainbow trout) 40613 mg/l 96 hours

 EC_{50} Daphnia magna 43500 mg/l 48 hours EC_{50} Green algae 1900 mg/l 96 hours

12.2 Degradability 81.7% (OECD 91F, 21 days)

12.3 Bioaccumutive potential BCF: 0.09 **12.4 Mobility in soil** 71.6 mN/m

12.5 PBT/vPvB assessment This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).

12.6 Other adverse effects The product is mobile in water environment.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment measures

Advice on disposal In accordance with national and local authority regulations, e.g. The Hazardous Waste

(England & Wales) Regulations 2005.

Contaminated packaging Treat empty containers in the same way as the product or if possible wash out thoroughly

and recycle.

14. TRANSPORT INFORMATION

14.1 United Nations No. Not classified (ADR, IMDG, IATA)

14.2 Proper shipping name Not classified (ADR, IMDG, IATA)

14.3 Transport class(s) Not classified (ADR, IMDG, IATA)

14.4 Packing group Not classified (ADR, IMDG, IATA)

14.5 Environmental

hazards

The product should not be marked as a marine pollutant. (ADR, IMDG, IATA)

14.6 Special procedures Not applicable (ADR, IMDG, IATA)

14.7 Transport in bulk Not applicable (ADR, IMDG, IATA)

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations

The product is classified in accordance with EC Regulation 1272/2008 (CLP). Other regulatory information and provisions are not applicable for this product.

15.2 Chemical safety assessment

Not applicable

Product Name: MONOPROPYLENE GLYCOL

16. OTHER INFORMATION

Further information The SDS has been revised in accordance with EC Regulation 1272/2008 (CLP)

Sources of data Other suppliers' safety data sheets, EH40(2011)

Date of issue 03-11-2015

This information is based on our present state of knowledge and is intended to describe our products from the point of view of the safety requirements. It should not be construed as guaranteeing specific properties.

Data sheet prepared by Rising HS&E Services.