

MONOPROPYLENE GLYCOL

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Revision No: 3

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name:MONOPROPYLENE GLYCOLREACH registered number(s):01-2119456809-23-XXXXCAS number:57-55-6EINECS number:200-338-0Synonyms:* PROPANE-1,2-DIOL1,2-DIHYDROXYPROPANE

1,2-PROPANDIOL

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

Use of substance / mixture: Organic Solvent. Coolant. Anti-freezing Agent. Chemical manufacturing.

1.3. Details of the supplier of the safety data sheet

Company name:	Monarch Chemicals Limited
	New Road
	Sheerness
	Kent
	ME12 1LZ
	United Kingdom
Tel:	01795 583333 (09:00 - 17:00 Mon-Fri)
Fax:	01795 583300
Email:	sales@monarchchemicals.co.uk

1.4. Emergency telephone number

Emergency tel: 07711 009064 (Out of Hours)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: This product has no classification under CLP.

2.2. Label elements

Label elements: This product has no label elements.

2.3. Other hazards

PBT: This substance is not identified as a PBT substance.

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Section 3: Composition/information on ingredients

3.1. Substances

Chemical identity: MONOPROPYLENE GLYCOL

Section 4: First aid measures

Section 4: First aid measures	
4.1. Description of first aid me	asures
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.
Eye contact:	Bathe the eye with running water for 15 minutes. Consult a doctor.
Ingestion:	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. Remove casualty from exposure
	ensuring one's own safety whilst doing so. If unconscious, check for breathing and apply
	artificial respiration if necessary. Move to fresh air in case of accidental inhalation of
	vapours. If symptoms develop seek medical attention.
4.2. Most important symptoms	s and effects, both acute and delayed
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. May cause irritation of the mucous
	membranes and respiratory system. Prolonged inhalation of mists may cause lung
	inflamation.
Delayed / immediate effects:	* Immediate effects can be expected after short-term exposure.
4.3. Indication of any immedia	te medical attention and special treatment needed
Immediate / special treatment:	* No special requirements.
Section 5: Fire-fighting measu	Ires
5.1. Extinguishing media	

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.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes of carbon dioxide / carbon monoxide. Keep containers exposed to fire cool with waterspray. Non-flammable, but will support combustion.

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5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Wear suitable protective clothing. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Eliminate all sources of ignition.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

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 large amounts of water.

6.4. Reference to other sections

Reference to other sections: * Refer to section 8 of SDS. Refer to section 13 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements:	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.

7.2. Conditions for safe storage, including any incompatibilities

 Storage conditions:
 Store in cool, well ventilated area. Keep away from sources of ignition. Keep container tightly closed. Avoid incompatible materials and conditions - see section 10 of SDS.

 Suitable packaging:
 * Steel drums. Aluminium containers. Polyethylene. Some rubbers and plastics are attacked by the product.

7.3. Specific end use(s)

Specific end use(s): * No data available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits:		xposure limits:		Respirable dust	
	State	8 hour TWA:	15 min. STEL:	8 hour TWA:	15 min. STEL:

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UK 150 ppm (4	74 mg/m3)	-	-	-
8.2. Exposure controls				
Engineering measures:	Ensure the	re is sufficient ventilation o	f the area. Ensure all engined	ering measures
	mentioned	in section 7 of SDS are in	place.	·
Respiratory protection:	Gas/vapou	r filter, type A: organic vap	ours (EN141). Wear suitable	respiratory protection
	when aeros	sols or mist are present.		
Hand protection:	Gloves (sol	lvent-resistant).		
Eye protection:	Safety gog	gles. Ensure eye bath is to	hand.	
Skin protection:	* Protective	e clothing. Boots. Ensure s	afety shower is to hand.	
Environmental:	* No specia	al requirement.		
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Section 9: Physical and chen	iicai propei			
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9.1. Information on basic phy State: Colour: Odour: Evaporation rate:	sical and ch Liquid Colourless Odourless Negligible Non-oxidisi	emical properties		
9.1. Information on basic phy State: Colour: Odour: Evaporation rate: Oxidising:	sical and ch Liquid Colourless Odourless Negligible Non-oxidisi Soluble	ng (by EC criteria)		
9.1. Information on basic phy State: Colour: Odour: Evaporation rate: Oxidising: Solubility in water: Also soluble in:	sical and ch Liquid Colourless Odourless Negligible Non-oxidisi Soluble	ng (by EC criteria)		
9.1. Information on basic phy State: Colour: Odour: Evaporation rate: Oxidising: Solubility in water: Also soluble in:	sical and ch Liquid Colourless Odourless Negligible Non-oxidisi Soluble Most organ * Non-visco	ng (by EC criteria)	Melting point/range	₽°C: * < -20
9.1. Information on basic phy State: Colour: Odour: Evaporation rate: Oxidising: Solubility in water: Also soluble in: Viscosity:	sical and ch Liquid Colourless Odourless Negligible Non-oxidisi Soluble Most organ * Non-visco * ~ 185	ng (by EC criteria)	••••••	e°C: * < -20 per: 12.6

Autoflammability°C: *>400 Relative density: ~1.03 g/ml

pH: Neutral.

Vapour pressure: 20 Pa @ 25 oC

9.2. Other information

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions. Hygroscopic.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

Decomposition may occur on exposure to conditions or materials listed below.

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10.4. Conditions to avoid

Conditions to avoid: Heat. Hot surfaces. Sources of ignition. Flames. Static Discharge. Moist air. Humidity.

Moisture.

10.5. Incompatible materials

Materials to avoid: * Strong acids. Strong Alkalis. Strong oxidising agents.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes of carbon dioxide / carbon monoxide. In a fire may liberate acrid and irritant fumes.

Section 11: Toxicological information

11.1. Information on toxicological effects

Toxicity values:

Route	Species	Test	Value	Units
ORL	RAT	LD50	20,000	mg/kg
SKN	RBT	LD50	> 10,000	mg/kg

Symptoms / routes of exposu	Symptoms / routes of exposure	
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. May cause irritation of the mucous	
	membranes and respiratory system. Prolonged inhalation of mists may cause lung	
	inflamation.	
Delayed / immediate effects:	* Immediate effects can be expected after short-term exposure.	
Other information:	* There is no further information at this time.	
Section 12: Ecological inform	nation	

12.1. Toxicity

Ecotoxicity values:

Species	Test	Value	Units
RAINBOW TROUT (Oncorhynchus mykiss)	96H LC50	40613	mg/l

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Ceriodaphnia dubia	48H EC50	18340	mg/l
MYSID SHRIMP (Mysidopsis bahia)	96H LC50	18800	mg/l
GREEN ALGA (Selenastrum capricornutum)	96H EC50	19000	mg/l

12.2. Persistence and degradability

Persistence and degradability: * The product is readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: * Product is not expected to bioaccumulate.

12.4. Mobility in soil

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

12.5. Results of PBT and vPvB assessment

Persistence (P-):		
	Persistence result:	not P-
Bioaccumulation (B-):		
	Bioconcentration factor (BCF):	<2000
	Bioaccumulation result:	not B-
Toxicity (T-):		
		mg/l
	NOEC for marine or freshwater organisms:	>0.1
	Toxicity result:	not T-

PBT identification: This substance is not identified as a PBT substance.

12.6. Other adverse effects	
Other adverse effects:	Negligible ecotoxicity. Do not allow to enter watercourses or soils. Spillage in sewers or
	waterways must be avoided.
Section 13: Disposal consider	rations
13.1. Waste treatment method	S
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 licenced contactor.
NB:	The user's attention is drawn to the possible existence of regional or national
	regulations regarding disposal.

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Section 14: Transport information

Transport class: This product is not classified for transport.

Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Specific regulations: Not applicable.

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Other information:	This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010. * indicates text in the SDS which has changed since the last revision.
Legal disclaimer:	The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.