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		according to Regulation (EC) No. 1907/2006
MO	NOPROPYLENE GI	LYCOL (ALL GRADES)
	ion 3.0 sion Date 2010/11/11	Print Date 2010/11/11
1.	Identification of the sul	ostance/mixture and of the company/undertaking
1.1.	Product identifier	
	Trade name CAS-No.	: MONOPROPYLENE GLYCOL (ALL GRADES) : 57-55-6
	EC-No.	: 200-338-0
1.2.	Relevant identified uses of	of the substance or mixture and uses advised against
	Use of the Substance/Mixture	: At this time we do not yet have information on identified uses. They will be included in this safety data sheet when available.
1.3.	Details of the supplier of	the safety data sheet
	Company Telephone	 Brenntag UK & IrelandAlbion House, Rawdon Park GB LS19 7XX Leeds Yeadon 0113 3879 200
	Telefax E-mail address	: 0113 3879 280 : msds@brenntag.co.uk
1.4.	Emergency telephone nu	mber
	Emergency telephone number	: Emergency only telephone number (open 24 hours): 01865 407333 (N.C.E.C. Culham)
2.	Hazards identification	
2.1.	Classification of the subs	stance or mixture
	The product is not classified	d as dangerous according to Regulation (EC) No. 1272/2008.
	Classification according	to EU Directives 67/548/EEC or 1999/45/EC
	Not a hazardous substance	e or mixture according to EC-directives 67/548/EEC or 1999/45/EC.
2.2.	Label elements	
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Labelling according to Regulation (EC) No 1272/2008

Additional information:

The product is not classified as dangerous according to Regulation (EC) No. 1272/2008.

2.3. Other hazards

The product does not need to be labelled in accordance with EC directives or respective national laws.

3. Composition/information on ingredients

3.1. Substances

Chemical Name		Identification Number:	Amount [%]
Propane-1,2-diol	CAS-No.	: 57-55-6	00.5
	EC-No.	: 200-338-0	> 99.5

4. First aid measures

4.1 Description of first aid measures

If inhaled	: Move to fresh air.	
In case of skin contact	: Wash off with soap and water. Remove contaminated clothing and shoes.	
In case of eye contact	: Remove contact lenses. Rinse immediately with plenty of water, also under the eyelids. If symptoms persist, call a physician.	
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	If swallowed	: Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Obtain medical attention.	
4.2	Most important symptoms	and effects, both acute and delayed	
4.3	Indication of immediate m	edical attention and special treatment needed	
5.	Fire-fighting measures		
5.1.	Extinguishing media		
	Suitable extinguishing media	: water spray powder Alcohol-resistant foam Carbon dioxide (CO2)	
5.2.	Special hazards arising from	the substance or mixture	
	Specific hazards during fire fighting	: Strong heating may produce combustible vapours which can form explosive mixture with air.	
5.3.	Advice for firefighters		
	Special protective equipment for fire-fighters	: In the event of fire, wear self-contained breathing apparatus.	
	Further information	: Use water spray to cool unopened containers.	
6.	Accidental release meas	sures	
6.1	Personal precautions, pro	tective equipment and emergency procedures	
	Personal precautions	: For personal protection see section 8.	
6.2	Environmental precautions		
	Environmental precautions	: The product should not be allowed to enter drains, water courses or the soil.	
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6.3	Methods and materials for co	ontainment and cleaning up	
	Methods and materials for containment and cleaning up	: Stop the leakage if it can be done without danger. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).	
6.4	Reference to other sections		
7.	Handling and storage		
7.1	Precautions for safe handling	;	
	Advice on safe handling	: Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin and eyes. Provide for good ventilation. Mechanical ventilation can be needed.	
	Hygiene measures	: Wash hands before breaks and immediately after handling the product. Smoking, eating and drinking should be prohibited in the application area.	
7.2	Conditions for safe storage, in	ncluding any incompatibilities	
	Requirements for storage areas and containers	 Keep container tightly closed and dry. Product is hygroscopic. Protect against light. Keep away from sources of ignition - No smoking. 	
	Requirements for storage areas and containers	: Suitable materials for containers: Stainless steel Mild steel	
	Storage temperature	: 18 - 32 °C	
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7.3 Specific end uses

8. Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls

Engineering measures

Exposure may primarily be reduced by choice of working method and technical measures.

Personal protective equipment

Respiratory protection

Advice	:	In case of insufficient ventilation, wear suitable respiratory
		equipment.

Hand protection

Advice

: The exact break through time can be obtained from the protective glove producer and this has to be observed. Protective gloves should be replaced at first signs of wear.

Material : Neoprene

Gloves : 240 min

: 0.5 mm

Safety goggles

:

Eye protection

Glove thickness

Advice

Skin and body protection

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	Advice : V	Vear suitable protective clothing.
	Environmental exposure co	
	General advice : T	The product should not be allowed to enter drains, water courses r the soil.
€.	Physical and chemical p	roperties
9.1.	Information on basic physic	cal and chemical properties
	Form	: liquid
	Colour	: colourless clear
	Odour	: none
	Odour Threshold pH	: : ca. 7
	Freezing point	: -60 °C
	Boiling point	: ca. 180 °C 1,013.25 hPa
	Flash point	: ca. 109 °C closed cup
	Upper explosion limit	: ca. 17 %(V)
	Lower explosion limit	: ca. 2 %(V)
	Vapour pressure	: ca. 0.1 hPa 20 °C
	Relative vapour density	: ca. 2 15 - 20 °C
	Density	: ca. 1.04 g/cm3 25 °C
	Water solubility	: completely soluble
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	Partition coefficient: n-octand	ol/water : -0.78	
	Ignition temperature	: 371 °C	
	Viscosity, dynamic	: ca. 46 mPa.s 25 °C	
9.2	Oxidizing properties Other information Io further information availabl	: e.	
10.	Stability and reactivity		
10.1.	Reactivity		
10.2.	Chemical stability		
	Advice	: Stable	
10.3.	Possibility of hazardous re	actions	
10.4.	Conditions to avoid		
	Conditions to avoid	 Avoid moisture. Exposure to sunlight. Strong oxidizing agents Avoid high temperatures. 	
10.5.	Incompatible materials		
	Materials to avoid	: Strong oxidizing agents Acids Isocyanates	
10.6.	Hazardous decomposition	products	
	Hazardous decomposition products	: Carbon monoxide Toxic gases	
11.	Toxicological informatio	n	
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11.1. Information on toxicological effects

	CAS-No. 57-55-6				
	Acute toxicity				
	Oral				
Value type	: LD50				
Value	: 22,000 mg/kg				
Species	: rat				
Remarks	: This material may be a slight health hazard if ingested in la quantities.				
	Inhalation				
Remarks	: Inhalation of high concentration may cause mechanical overstraining of mucous membranes.				
	Dermal				
Value type	: LD50				
Value	: 20,800 mg/kg				
Species	: rabbit				
Irritation					
Skin					
Remarks : Repeated exposure may cause skin dryness or cracking.					
Eyes					
Remarks	: Splash in the eyes may cause discomfort. Moderate eye irritation				
Propane-1,2-diol					
57-55-6					
Acute toxicity					
	Oral				
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Dermal

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Value type	:	LD50
Value	:	20,000 mg/kg
Species	:	rat

:	LD50
:	20,800 mg/kg
:	rabbit
	:

12. Ecological information

12.1. Toxicity

	Acute toxicity	
	Fish	
Fest type	: Toxicity to fish	
Species	: Pimephales promelas	
Exposure Time	: 96 h	
/alue	: 51,400 mg/l	
	Toxicity to daphnia and other aquatic	invertebrates.
Fest type	: Toxicity to daphnia	
Species	: Daphnia	
Exposure time	: 48 h	
/alue type	: EC50	
/alue	: 43,500 mg/l	
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	Fish	
Species	: Oncorhynchus mykiss	
Exposure Time	: 96 h	
Value type	: LC50	
Value	: 45,716 mg/l	
	Toxicity to daphnia and other aquatic invertebrates.	
Species	: Daphnia magna	
Exposure time	: 48 h	
Value type	: EC50	
Value	: > 10,000 mg/l	
Method	: OECD Test Guideline 202	
	algae	
Exposure time	: 72 h	
Value type	: IC50	
Value	: 19,000 mg/l	
	Bacteria	
Species	: activated sludge	
Value	: > 5,000 mg/l	
. Persistence and de	gradability	
	CA	S-No.
	57	-55-6
	Persistence and degradability	
	Biodegradability	
Remarks	: Readily biodegradable	
. Bioaccumulative p	otential	

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12.4.	Mobility in soil		
12.5.	Results of PBT and vPvB as	sessment	
12.6.	Other adverse effects		
			CAS-No. 57-55-6
		Additional ecological informatio	n
		he product is mobile in water environ his product has no known eco-toxico	
13.	Disposal considerations		
13.1.	Waste treatment methods		
	Product	: In accordance with local and nat	ional regulations.
	European Waste Catalogue Number	: No waste code according to the can be assigned for this product, the assignment. The waste code with the regional waste disposer.	as the intended use dictates is established in consultation
14. 14.1.	Transport information UN number		
14.2.	UN proper shipping name		
14.3.	Transport hazard class(es)		
14.4.	Packaging group		

14.5. Environmental hazards

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14.6. Special precautions for user

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

IMDG : not applicable

Further information for transport

Not dangerous goods in the meaning of ADR/RID, ADNR, IMDG-Code, ICAO/IATA-DGR

15. Regulatory information

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

15.2. Chemical Safety Assessment

16. Other information

|| Indicates updated section.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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