SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006							
GL	GLYCERINE (ALL GRADES)						
Vers	Version 4.1 Print Date 2015/06/08						
Rev	ision date / valid from 201	5/06	5/08 MSDS code: MGLY100				
SEC	TION 1: Identification of	f the	substance/mixture and of the company/undertaking				
1.1.	Product identifier						
	Trade name Substance name CAS-No. EC-No.	:	GLYCERINE (ALL GRADES) Glycerol 56-81-5 200-289-5				
1.2.	Relevant identified uses	of th	e 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.				
	Uses advised against	:	At this moment we have not identified any uses advised against				
	Remarks	:	This substance is exempt from registration according to Regulation (EC) No. 1907/2006 (REACH).				
1.3.	3. Details of the supplier of the safety data sheet						
	Company	:	Brenntag UK & Ireland Albion House, Rawdon Park GB LS19 7XX Leeds Yeadon				
	Telephone Telefax	:	+44 (0) 113 3879 200 +44 (0) 113 3879 280				
	E-mail address	:	msds@brenntag.co.uk				
1.4.	Emergency telephone nu	ımbe	r				
	Emergency telephone number	: E	Emergency only telephone number (open 24 hours): +44 (0) 1865 407333 (N.C.E.C. Culham)				
SEC	TION 2: Hazards identif	icatio	on				
2.1.	Classification of the sub	stanc	ce or mixture				
	Classification according	to Re	egulation (EC) No 1272/2008				
	Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.						



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	Classification according to EU Directives 67/548/EEC or 1999/45/EC									
	This substance is not classified as dangerous according to Directive 67/548/EEC. Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.									
	Most important adverse ef	ects								
	Human Health	See section 11 for toxicological information.								
	Physical and chemical hazards	See section 9 for physicochemical information.								
		See section 12 for environmental information.								
2.2.	Label elements									
	Labelling according to Re	gulation (EC) No 1272/2008								
	Not a hazardous substance	or mixture according to Regulation (EC) No. 1272/2	2008.							
	Other labelling information:									
	Further information	Handle in accordance with good industrial hygier practice.	e and safety							
2.3.	Other hazards									
	For Results of PBT and vPvB assessment see section 12.5. The product does not need to be labelled in accordance with EC directives or respective national laws.									
SEC	TION 3: Composition/info	rmation on ingredients								
3.1.	Substances									
	Non-hazardous component									
	Chemical Name	Identification Number	Amount [%]							
	Glycerol	CAS-No. : 56-81-5 EC-No. 200-289-5	<= 100							
SEC	TION 4: First aid measure	S								
4.1.	Description of first aid me	isures								
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	General advice	: No special precautions required.				
	If inhaled	: Remove to fresh air. If symptoms persist, call a physician.				
	In case of skin contact	: Wash off with soap and water.				
	In case of eye contact	: Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.				
	If swallowed	: Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.				
4.2. Most important symptoms and effects, both acute and delayed						
	Symptoms	: See Section 11 for more detailed information on health effects and symptoms.				
	Effects	: See Section 11 for more detailed information on health effects and symptoms.				
4.3.	3. Indication of any immediate medical attention and special treatment needed					
	Treatment	: Treat symptomatically. No further information available.				
SEC	TION 5: Firefighting mea	sures				
5.1.	Extinguishing media					
	Suitable extinguishing media Unsuitable extinguishing media	 Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. No information available. 				
5.2.	2. Special hazards arising from the substance or mixture					
	Specific hazards during firefighting	: Under fire conditions: Carbon monoxide, Carbon dioxide (CO2)				
5.3.	Advice for firefighters					
	Special protective equipment for firefighters Further advice	 In the event of fire, wear self-contained breathing apparatus.Wear personal protective equipment. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. 				
SEC	TION 6: Accidental releas	se measures				
6.1.	Personal precautions, pro	tective equipment and emergency procedures				
	Personal precautions	: Use personal protective equipment. Avoid contact with skin				



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		and eyes. For personal protection see section 8.				
6.2.	Environmental precautions					
	Environmental precautions	: Do not flush into surface water or sanitary sewer system.				
6.3.	Methods and materials for	containment and cleaning up				
	Methods and materials for : Use mechanical handling equipment. Keep in suitable, closed containment and cleaning containers for disposal.					
	up	: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders). Keep in suitable, closed containers for disposal.				
	Further information	: Treat recovered material as described in the section "Disposal considerations".				
6.4.	Reference to other section	S				
	For personal protection see	e section 8.				
SEC	TION 7: Handling and sto	rage				
7.1.	Precautions for safe handl	•				
	Advice on safe handling	 Keep container tightly closed. Handle in accordance with good industrial hygiene and safety practice. 				
	Hygiene measures	: Keep away from food, drink and animal feedingstuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday. Provide adequate ventilation. Avoid contact with the skin and the eyes.				
7.2.	. Conditions for safe storage, including any incompatibilities					
	Requirements for storage areas and containers	: Keep only in the original container.				
	Advice on protection against fire and explosion	: Normal measures for preventive fire protection.				
	Further information on storage conditions	: Keep tightly closed in a dry and cool place. Keep away from heat. Protect from frost.				
	Advice on common storage	: Keep away from food, drink and animal feedingstuffs.				
7.3.	Specific end use(s)					
	Specific use(s)	: No information available.				
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SECTION 8: Exposure controls/personal protection							
8.1.							
0.1.	Control parameters						
	Component:	Glycerol CAS-No. 56-81-5					
1	· · · ·	Other Occupational Exposure Limit Values					
_	EH40 WEL, Time \ 10 mg/m3	Veighted Average (TWA):, Mist.					
	ELV (IE), Time We 10 mg/m3	ighted Average (TWA):, Mist.					
8.2.	Exposure controls						
	Personal protective equipment Respiratory protection						
	Advice	: Required if dust is released Dust-mask					
	Hand protection						
	Advice	: Protective gloves					
	Eye protection						
	Advice	: Safety goggles					
	Skin and body protection						
	Advice : Protective work clothing						
	Environmental exposure controls						
	General advice	: Do not flush into surface water or sanitary sewer system.					
SEC	CTION 9: Physical a	nd chemical properties					
9.1.	Information on bas	ic physical and chemical properties					
	Form	: viscous liquid					
	Colour	: colourless					
	Odour	: odourless					
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	Odour Threshold	:	no data available					
	рН	:	7					
	Melting point/range	:	18 °C					
	Boiling point/boiling range	:	290 °C					
	Flash point Evaporation rate	:	177 °C no data available					
	Flammability (solid, gas)	:	no data available					
	Upper explosion limit	:	20 %(V)					
	Lower explosion limit	:	10 %(V)					
	Vapour pressure	:	< 0.01 hPa					
	Relative vapour density	:	3.17					
	Density	:	1.262 g/cm3 (20 °C)					
	Water solubility	:	soluble in cold water					
	Partition coefficient: n-octanol/water	• :	log Kow -2.6					
	Auto-ignition temperature	:	400 °C					
	Thermal decomposition	:	no data available					
	Viscosity, dynamic	:	1,300 mPa.s (20 °C)					
	Explosivity	:	no data available					
	Oxidizing properties	:	no data available					
9.2.	Other information							
	No further information available.							
SEC	SECTION 10: Stability and reactivity							
	Reactivity							
	-	orm	ation available.					
10.2.	Chemical stability							
	-							

Advice

: No decomposition if stored and applied as directed. No further information available.

10.3. Possibility of hazardous reactions



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	Hazardous reactions	: No information available.						
.4.	Conditions to avoid							
	Conditions to avoid	: No information available.						
.5. Incompatible materials								
	Materials to avoid	: Oxidizing agents						
.6.	Hazardous decompos	sition products						
	Hazardous decomposition : Carbon oxides, acrolein products							
ECT	TION 11: Toxicologi	cal information						
.1.	Information on toxico	logical effects						
		Acute toxicity						
_		Oral						
	LD50 Oral	: > 2000 mg/kg (Rat)						
		Irritation						
_		Eyes						
	Result	: May irritate eyes.						
		Sensitisation						
	Result	: No sensitizing effect known.						
		Further information						
	Other relevant toxicity information	: Handle in accordance with good industrial hygiene and safety practice.						
	Experience with human exposure	: Health injuries are not known or expected under normal use.						
	TION 12: Ecological Toxicity	information						

	Acute toxicity	
	Fish	
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	LC50 :	> 5000 mg/l (fish; 96 h) (Toxicity to fish)						
122	2.2. Persistence and degradability							
		Persistence and degradability						
		Biodegradability						
	Result :	Readily biodegradable						
12.3.	Bioaccumulative potentia	1						
		Bioaccumulation						
_	Result :	Bioaccumulation is not expected.						
12.4.	Mobility in soil							
12.5.	.5. Results of PBT and vPvB assessment							
12.6.	2.6. Other adverse effects							
	Additional ecological information							
_	Result : Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.							
SEC	TION 13: Disposal consi	derations						
13.1.	Waste treatment methods							
	Product	: Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Do not let product enter drains. Contact waste disposal services.						
	Contaminated packaging	: Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. Packagings that cannot be cleaned are to be disposed of in the same manner as the product.						
	European Waste Catalogue Number	: No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.						
SECTION 14: Transport information								

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Not dangerous goods for ADR, RID, IMDG and IATA.

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packaging group

Not applicable.

14.5. Environmental hazards

Not applicable.

14.6. Special precautions for user

Not applicable.

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

IMDG : Not applicable.

SECTION 15: Regulatory information

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

15.2. Chemical Safety Assessment

no data available

SECTION 16: Other information

Further information

Key literature references and sources for data	:	Supplier information and data from the "Database of registered substances" of the European Chemicals Agency (ECHA) were used to create this safety data sheet.	
Other 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	
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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

|| Indicates updated section.