SAFETY DATA SHEET



1. Identification

GHS product identifier Other means of identification Recommended use Recommended restrictions	Couplant B None. Couplant. None known.
Manufacturer information	
Supplier	Olympus Testing, Maintenance & Repair Services L.L.C
Address Telephone	Plot 80, Zone M16, Musaffah Industrial Area. P.O. Box 92436 Abu Dh Arab Emirates +971 25-52-72-25
FAX	+971 25-52-72-24
Emergency telephone number	CHEMTREC
	US: 1-800-424-9300, International: +1 703-527-3887
2. Hazard(s) identification	

Physical hazards	Not classified.	
Health hazards	Specific target organ toxicity following single exposure	Category 3 respiratory tract irritation
Environmental hazards	Not classified.	
Label elements		



	V
Signal word	Warning
Hazard statement	May cause respiratory irritation.
Precautionary statements	
Prevention	Avoid breathing mist or vapour. Use only outdoors or in a well-ventilated area.
Response	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTRE or doctor/physician if you feel unwell.
Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Other hazards which do not result in classification	None known.
Supplemental information	None.

3. Composition/information on ingredients

Substance

	56-81-5	100
		100
All concentrations are in percent by weight ur percent by volume.	nless ingredient is a gas. Gas	concentrations are in
If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing Call a physician if symptoms develop or persist.		
Wash off with soap and water. Get medical attention if irritation develops and persists.		
Rinse with water. Get medical attention if irritation develops and persists.		
Rinse mouth thoroughly. Get medical attentio	n if symptoms occur.	
	percent by volume. If breathing is difficult, remove to fresh air and Call a physician if symptoms develop or persi Wash off with soap and water. Get medical a Rinse with water. Get medical attention if irrita	percent by volume. If breathing is difficult, remove to fresh air and keep at rest in a position con Call a physician if symptoms develop or persist. Wash off with soap and water. Get medical attention if irritation develops a

Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation. May cause respiratory irritation.	
Indication of immediate medical attention and special treatment needed	Treat symptomatically.	
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.	
5. Fire-fighting measures		
Suitable extinguishing media Unsuitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials. None known.	
Specific hazards arising from the chemical	By heating and fire, harmful vapours/gases may be formed.	
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.	
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.	
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.	
General fire hazards	Will burn if involved in a fire.	
6. Accidental release measures		

Personal precautions, protective equipment and emergency procedures	Ensure adequate ventilation. Avoid prolonged exposure. Keep unnecessary personnel away. In case of spills, beware of slippery floors and surfaces. Wear appropriate protective equipment and clothing during clean-up. For personal protection, see section 8 of the SDS.
Methods and materials for	Stop the flow of material, if this is without risk. Wipe up with absorbent material (e.g. cloth, fleece).
containment and cleaning up	After cleaning, flush away traces with water. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

including any incompatibilities

Conditions for safe storage,

Provide adequate ventilation. Avoid prolonged exposure. Avoid breathing mist or vapour. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Store in closed original container at temperatures between 18°C and 54°C. Store away from incompatible materials (see section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits	No exposure limits noted for ingredient(s).		
Biological limit values	No biological exposure limits noted for the ingredient(s).		
Appropriate engineering controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.		
Individual protection measures,	such as personal protective equipment		
Eye/face protection	If contact is likely, safety glasses with side shields are recommended. Eye wash fountain is recommended.		
Skin protection			
Hand protection	For prolonged or repeated skin contact use suitable protective gloves. Suitable gloves can be recommended by the glove supplier.		
Other	Wear suitable protective clothing.		
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.		
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.		
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.		

9. Physical and chemical properties

Appearance		
Physical state Form	Liquid.	
	Viscous.	
Colour	Clear.	
Odour	Mild.	
Couplant B		SDS South Africa

Odour threshold	Not available.
рН	Not available.
Melting point/freezing point	19.85 °C (67.73 °F)
Initial boiling point and boiling range	290 °C (554 °F)
Flash point	198.9 °C (390.0 °F) Closed cup
Evaporation rate	> 1 (Ether (anhydrous) =1)
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	2.6
Flammability limit - upper (%)	11.3
Vapour pressure	< 0.13 kPa
Vapour density	3.1 (Air = 1)
Relative density	1.4 - 1.6
Solubility(ies)	
Solubility (water)	Soluble in water.
Partition coefficient (n-octanol/water)	-1.76
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Molecular formula	C3-H8-O3
Molecular weight	92.09 g/mol
Oxidising properties	Not oxidising.
10. Stability and reactivity	,

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport. Hygroscopic.
Chemical stability	Material is stable under normal conditions
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Excessive heat. Ignition sources.
Incompatible materials	Strong oxidising agents.
Hazardous decomposition products	Hygroscopic

11. Toxicological information

Information on likely routes of exposure

Inhalation	High mist concentrations may cause irritation of respiratory tract.		
Skin contact	No adverse effects due to skin contact are expected.		
Eye contact	Direct contact with eyes may cause temporary irritation.		
Ingestion	Expected to be a low ingestion hazard.		
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation. May cause respiratory irritation.		
Information on toutestants at all			

Information on toxicological effects

Acute toxicity	Not expected to be acutely toxic.		
Product	Species	Test results	
Glycerol (CAS 56-81-5)			
Acute			
Dermal			
LD50	Rabbit	> 10 g/kg	

Product	Species	Test results	
Oral			
LD50	Rat	12600 mg/kg	
Skin corrosion/irritation	No adverse effects due to skin contact are expected.		
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.		
Respiratory or skin sensitisation	1		
Respiratory sensitisation	Due to lack of data the classification is not possible.		
Skin sensitisation	This product is not expected to cause skin sensitisation.		
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.		
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.		
Specific target organ toxicity - single exposure	May cause respiratory irritation.		
Specific target organ toxicity - repeated exposure	Based on available data, the classification criteria are not met.		
Aspiration hazard	Not an aspiration hazard.		

12. Ecological information

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

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Product		Species	Test results	
Glycerol (CAS 56-81-5)				
Aquatic				
Fish	LC50	Fish	54000 mg/l, 96 hours	
ersistence and degradability	The produ	ict is readily biodegradab	le.	
ioaccumulative potential	The produ	The product is not bioaccumulating.		
obility in soil	No data available.			
ther adverse effects		No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.		

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.	
Local disposal regulations	Dispose in accordance with all applicable regulations.	
Waste from residues / unused products	Dispose of in accordance with local regulations.	
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.	

14. Transport information

ADR

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

ΙΑΤΑ

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according toNot applicable.Annex II of MARPOL 73/78 andthe IBC Code

15. Regulatory information

Safety, health and environmental regulations specific for the product in question

Hazardous Substances Act, 1973 (Act No. 15 of 1973)

Not listed.

International regulations

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Montreal Protocol

Not applicable.

Kyoto protocol

Not applicable.

Basel Convention Not applicable.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information

Issue date	11-August-2016
Revision date	-
Version No.	01
List of abbreviations	LD50: Lethal Dose 50%. LC50: Lethal Concentration 50%.
Disclaimer	Olympus cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.