

Page 1/7

Safety Data Sheet according to WHS Regulations

Printing date 05.07.2018 Version number 3 Revision: 05.07.2018

Hazardous according to criteria of Australian Safety and Compensation Council.

1 Identification

- · Product identifier
 - Trade name: Gluma Solid Bond S
 - · Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
 - Application of the substance / the mixture Dental bonding material
- · Details of the supplier of the safety data sheet
 - Manufacturer/Supplier: Kulzer Australia Pty Ltd 11 – 21 Underwood Rd

HOMEBUSH NSW 2140

Australia Tel: +61 (0) 2 9764 5222

- · Informing department: see above
- Emergency telephone number:

Poison Information Number: Australia 13 11 26 & New Zealand 0800 764 766

2 Hazard(s) Identification

· Classification of the substance or mixture

Skin Sens. 1 H317 May cause an allergic skin reaction.

- · Label elements
 - · GHS label elements

The product is classified and labelled according to the Globally Harmonised System (GHS).

Hazard pictograms



- · Signal word Warning
- · Hazard-determining components of labelling:

Methacryloyloxyethyl maleate

Hazard statements

May cause an allergic skin reaction.

· Precautionary statements

Avoid breathing dust/fume/gas/mist/vapours/spray.

Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection/face protection.

Specific treatment (see on this label).

If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

- · Other hazards ·
 - · Results of PBT and vPvB assessment
 - PBT: Not applicable.
 - vPvB: Not applicable.

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Page 2/7

Safety Data Sheet according to WHS Regulations

Printing date 05.07.2018 Version number 3 Revision: 05.07.2018

Trade name: Gluma Solid Bond S

(Contd. of page 1)

3 Composition and Information on Ingredients

- · Chemical characterisation: Mixtures
 - · Description: Product based on methacrylates

 Dangerous com 	ponents:	
CAS: 109-16-0 EINECS: 203-652-6		25-50%
CAS: 51978-15-5 EINECS: 257-569-5	maleic-acid-mono-2-methacryloyl-oxyethylester Acute Tox. 3, H311; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Irrit. 2, H315	0-5%

· Additional information For the wording of the listed hazard phrases refer to section 16.

4 First Aid Measures

- · Description of first aid measures
 - After inhalation Supply fresh air.
 - · After skin contact

Instantly wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· After eye contact

Rinse opened eye for several minutes under running water. Then consult doctor.

· After swallowing

Rinse out mouth and then drink plenty of water.

In case of persistent symptoms consult doctor.

- Information for doctor
 - Most important symptoms and effects, both acute and delayed
 No further relevant information available.
 - · Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire Fighting Measures

- Extinguishing media
 - Suitable extinguishing agents

CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam. Use fire fighting measures that suit the environment.

· Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

- · Advice for firefighters
 - Protective equipment: Wear self-contained breathing apparatus.
- · Additional information -

6 Accidental Release Measures

- · Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- Environmental precautions: Do not allow product to reach sewage system or water bodies.

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (diatomite, universal binders, for small amounts tissues). Send for recovery or disposal in suitable containers.

Reference to other sections

See Section 13 for information on disposal.

(Contd. on page 3)



Page 3/7

Safety Data Sheet according to WHS Regulations

Printing date 05.07.2018 Version number 3 Revision: 05.07.2018

Trade name: Gluma Solid Bond S

(Contd. of page 2)

See Section 8 for information on personal protection equipment.

7 Handling and Storage

- · Handling
 - · Precautions for safe handling Wear protective equipment. Keep unprotected persons away.
 - Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
 - · Storage
 - · Requirements to be met by storerooms and containers: No special requirements.
 - Information about storage in one common storage facility: Not required.
 - Further information about storage conditions: Store cool (not above 25 °C).
- · Specific end use(s) No further relevant information available.

8 Exposure controls and personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
 - Components with critical values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· DNELs				
109-16-0 triethylen glycol dimethacrylate				
Dermal work	ker ind	ustr., l.te., syst. 13.9 mg/Kg/d (nd)		
Inhalative work	ker ind	ustr., l.te., syst. 48.5 mg/m3 (nd)		
· PNECs				
109-16-0 triethylen glycol dimethacrylate				
marine water		0.0164 mg/l (nd)		
sedim., dw, fre.	.wat.	1.85 mg/Kg (nd)		
sedim., dw, ma	ar.wat.	0.185 mg/Kg (nd)		
soil,dw		0.274 mg/Kg (nd)		

· Additional information: The lists that were valid during the compilation were used as basis.

· Exposure controls

- · Personal protective equipment
 - General protective and hygienic measures

Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the work.

- · Breathing equipment: Not required.
- Protection of hands:

If skin contact cannot be avoided, protective gloves are recommended to avoid possible sensitization.

Check protective gloves prior to each use for their proper condition. recommended

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

(Contd. on page 4)



Page 4/7

Safety Data Sheet according to WHS Regulations

Printing date 05.07.2018 Version number 3 Revision: 05.07.2018

Trade name: Gluma Solid Bond S

(Contd. of page 3)

· Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:

Putul rubber, PD.

Butyl rubber, BR Nitrile rubber, NBR

• Eye protection: Safety glasses • Body protection: Light weight protective clothing

9 Physical and Chemical Proper	rties
Information on basic physical and cl General Information Appearance:	• •
· Form: · Colour:	Fluid Yellowish
· Smell: · Odour threshold:	Characteristic Not determined.
· pH-value:	Not determined.
Change in condition Melting point/freezing point: Initial boiling point and boiling	Not determined g range: Not determined
· Flash point:	169 ℃
· Inflammability (solid, gaseous)	Not applicable.
· Ignition temperature:	
Decomposition temperature:	Not determined.
· Self-inflammability:	Product is not selfigniting.
· Explosive properties:	Product is not explosive.
· Critical values for explosion: · Lower: · Upper:	Not determined. Not determined.
· Steam pressure at 20 ℃:	1 hPa
Density Relative density Vapour density Evaporation rate	Not determined Not determined. Not determined. Not determined.
Solubility in / Miscibility with Water:	Not miscible or difficult to mix
Partition coefficient: n-octanol/wa	ater: Not determined.
Viscosity: dynamic at 20 ℃: kinematic: Other information	550 mPas Not determined. No further relevant information available.



Page 5/7

Safety Data Sheet according to WHS Regulations

Printing date 05.07.2018 Version number 3 Revision: 05.07.2018

Trade name: Gluma Solid Bond S

(Contd. of page 4)

10 Stability and Reactivity

- · Reactivity No further relevant information available.
 - · Chemical stability
 - · Conditions to be avoided: No decomposition if used and stored according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: None
- Additional information:

If stored longer than recommended and/or above recommended temperature, product may polymerize generating heat.

11 Toxicological Information

· Information on toxicological effects

. 🖊	Acute toxi	city
	· LD/LC5	0 values that are relevant for classification:
109-	-16-0 triet	hylen glycol dimethacrylate
Oral	LD50	> 5000 mg/kg (rat)
		> 2000 mg/kg (mouse)
156	5-94-2 Bis	phenol A-bis(hydroxypropylmethacrylate)
Oral	LD50	>5110 mg/kg (rat)
519	78-15-5 m	aleic-acid-mono-2-methacryloyl-oxyethylester
Oral	LD50	1068 mg/kg (rat)
246	50-42-8 2,	2-dimethoxy-1,2-diphenylethan-1-one
Oral	LD50	>6000 mg/kg (rat)
Deri	mal LD50	> 7100 mg/kg (rat)

- · Primary irritant effect:
 - Skin corrosion/irritation No irritant effect.
 - · Serious eye damage/irritation No irritant effect.
- · Respiratory or skin sensitisation Sensitization possible by skin contact.

12 Ecological Information

- · Toxicity
 - · Aquatic toxicity:

109-16-0 triethylen glycol dimethacrylate

EC50/72h > 100 mg/l (algae)

- Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
 - · Bioaccumulative potential No further relevant information available.
 - · Mobility in soil No further relevant information available.
- Additional ecological information:
 - · General notes:

Harmful to aquatic organisms

Avoid transfer into the environment.

- · Results of PBT and vPvB assessment
 - · PBT: Not applicable.
 - vPvB: Not applicable.

(Contd. on page 6)



Page 6/7

Safety Data Sheet according to WHS Regulations

Printing date 05.07.2018 Version number 3 Revision: 05.07.2018

Trade name: Gluma Solid Bond S

· Other adverse effects No further relevant information available.

(Contd. of page 5)

13 Disposal considerations

- · Waste treatment methods
 - Recommendation

Small quantities can be polymerized by light and the cured solid material can be disposed of with the regular garbage. Larger quantities must be disposed of following the regulations of the local authorities.

- · Uncleaned packagings:
 - Recommendation: Disposal must be made according to official regulations.

4 Transport information		
UN-Number ADG, ADN, IMDG, IATA	Void	
UN proper shipping name ADG, ADN, IMDG, IATA	Void	
· Transport hazard class(es)		
ADG, ADN, IMDG, IATA Class	Void	
· Packing group · ADG, IMDG, IATA	Void	
Environmental hazards: Marine pollutant:	No	
· Special precautions for user	Not applicable.	
Transport in bulk according to Annex Marpol and the IBC Code	II of Not applicable.	
· Transport/Additional information:	-	
· UN "Model Regulation":	Void	

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements

The product is classified and labelled according to the Globally Harmonised System (GHS).

Hazard pictograms



- · Signal word Warning
- · Hazard-determining components of labelling: Methacryloyloxyethyl maleate

(Contd. on page 7)



Page 7/7

Safety Data Sheet according to WHS Regulations

Printing date 05.07.2018 Version number 3 Revision: 05.07.2018

Trade name: Gluma Solid Bond S

(Contd. of page 6)

· Hazard statements

May cause an allergic skin reaction.

· Précautionary statements

Avoid breathing dust/fume/gas/mist/vapours/spray.

Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection/face protection. Specific treatment (see on this label).

If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the

International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LOSO: Lethal concentration 50 percent

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

PB1: Persistent, Bloaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity – Category 4 Acute Tox. 3: Acute toxicity – Category 3 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Skin Sens. 1: Skin sensitisation – Category 1

* Data compared to the previous version altered.