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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: Signum composite ...
 - dentine, margin, enamel, effect
 - Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
 - · Application of the substance / the mixture Veneering resin
- · 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:

1,12-dodecandioldimethacrylate

Hazard statements

May cause an allergic skin reaction.

· Précautionary statements

Avoid breathing dust/fume/gas/mist/vapours/spray.
Wear protective gloves/protective clothing/eye protection/face protection.

IF ON SKIN: Wash with plenty of water.

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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3 Composition and Information on Ingredients

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

Dangerous components:				
	1,12-dodecandioldimethacrylate	0-5%		
EINECS: 276-900-4	Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335			
CAS: 109-16-0 EINECS: 203-652-6	triethylen glycol dimethacrylate	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
 - · General information No special measures required.
 - After skin contact The product is not skin irritating.
 - · After eye contact Rinse opened eye for several minutes under running water.
 - 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 No further relevant information available.
- Advice for firefighters
 - · Protective equipment: No special measures required.
- Additional information -

6 Accidental Release Measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- Environmental precautions: No special measures required.
- Methods and material for containment and cleaning up:

Absorb with liquid-binding material (diatomite, universal binders, for small amounts tissues).

Reference to other sections

No dangerous materials are released.

See Section 8 for information on personal protection equipment.

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7 Handling and Storage

- · Handling
 - · Precautions for safe handling No special measures required.
 - 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 worker	ndustr., l.te., syst. 13.9 mg/Kg/d (nd)			
Inhalative worker	ndustr., 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.wa	. 1.85 mg/Kg (nd)			
sedim., dw, mar.w	at. 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.

· 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.

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

Butyl rubber, BR Nitrile rubber, NBR

Eye protection: not absolutely neccessary

· Body protection: Light weight protective clothing

9 Physical and Chemical Properties

· Information on basic physical and chemical properties

General Information

· Appearance:

Form:

· Colour: Different according to colour

· Smell: Odourless Odour threshold: Not determined.

· pH-value: Not determined.

· Change in condition

· Melting point/freezing point: Not det · Initial boiling point and boiling range: 250 $^\circ$ C Not determined

· Flash point: 101 ℃

Inflammability (solid, gaseous) Not applicable.

· Ignition temperature:

Decomposition temperature: Not determined.

Self-inflammability: Product is not selfigniting.

Product is not explosive. · Explosive properties:

· Critical values for explosion:

Not determined. · Lower: · Upper: Not determined.

· Steam pressure at 20 ℃: 40 hPa

Density at 20 ℃ 1.450 g/cm³

Relative density Not determined. · Vapour density Not determined. · Evaporation rate Not determined.

· Solubility in / Miscibility with

Not miscible or difficult to mix · Water:

· Partition coefficient: n-octanol/water: Not determined.

· Viscosity:

dynamic: Not determined. · kinematic: Not determined.

· Solvent content:

73.7 % · Solids content:

Other information No further relevant information available.



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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 to	xicity		
· LD/L0	C50 values that are relevant for classification:		
	silica, silanized		
Oral LD5	50 10000 mg/kg (rat)		
41137-60-4	diurethandimethacrylate		
	50 >5000 mg/kg (rat)		
72829-09-5 1,12-dodecandioldimethacrylate			
Oral LD5	50 >2000 mg/kg (rat)		
109-16-0 triethylen glycol dimethacrylate			
Oral LD5	50 > 5000 mg/kg (rat)		
Dermal LD5	50 > 2000 mg/kg (mouse)		
24650-42-8 2,2-dimethoxy-1,2-diphenylethan-1-one			

LD50 >6000 mg/kg (rat)

Dermal 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 No sensitizing effect known.
- Additional toxicological information:

The product is not subject to classification according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version. When used and handled according to specifications, the product does not have any harmful

effects according to our experience and the information provided to us.

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.

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- · **Mobility in soil** No further relevant information available. · **Additional ecological information:**
- - General notes:

Do not allow product to reach ground water, water bodies or sewage system. Danger to drinking water if even small quantities leak into soil.

Results of PBT and vPvB assessment

- - PBT: Not applicable.
 - · **vPvB:** Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
 - Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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

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). (Contd. on page 7)



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· Hazard pictograms



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

1,12-dodecandioldimethacrylate

· Hazard statements

May cause an allergic skin reaction.

Precautionary statements

Avoid breathing dust/fume/gas/mist/vapours/spray.
Wear protective gloves/protective clothing/eye protection/face protection.

IF ON SKIN: Wash with plenty of water.

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

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

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)

VOCV: Lenkungsabgabe auf flüchtigen organischen Verbindungen, Schweiz (Swiss Ordinance on volatile organic

DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A

Skin Sens. 1: Skin sensitisation - Category 1

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

* Data compared to the previous version altered.