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Safety Data Sheet according to WHS Regulations

Printing date 17.11.2022 Version number 5 Revision: 17.11.2022

Hazardous according to criteria of Australian Safety and Compensation Council.

1 Identification

- · Product identifier
 - · Trade name: Signum ceramis
 - · 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 Unit 20, 53 Lorraine St PEAKHURST NSW 2210

Australia Tel: +61 (02) 9153 0311

- 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:

7,7,9 (or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diylbismethacrylate

Bisphenol A Diglycidylether Diacrylate (BADGE-DA)

triethylen glycol dimethacrylate

Hazard statements

May cause an allergic skin reaction.

Precautionary statements

Avoid release to the environment.

Wear protective gloves / eye protection.

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

3 Composition and Information on Ingredients

- · Chemical characterisation: Mixtures
 - · Description: -

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· Dangerou	s components:	
72869-86-4	7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane- 1,16-diyl bismethacrylate	≥5-<25%
	Skin Sens. 1B, H317	
55818-57-0	Bisphenol A Diglycidylether Diacrylate (BADGE-DA) Skin Sens. 1, H317	<i>≥</i> 2.5- <i>≤</i> 10%
111497-86-0	2-propenoic acid, 1,1'-[(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)]]ester, reaction products with diethylamine	≥0.1-<1%
	Skin Irrit. 2, H315; Skin Sens. 1B, H317	

• 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; consult doctor in case of symptoms.
 - · 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 Allergic reactions
 - Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire Fighting Measures

- · Extinguishing media
 - · Suitable extinguishing agents

Use fire fighting measures that suit the environment.

CO2, extinguishing powder or water jet. Fight larger fire with alcohol-resistant foam.

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: No special measures required.
- · Additional information -

6 Accidental Release Measures

- · Personal precautions, protective equipment and emergency procedures Wear protective clothing.
- Environmental precautions: Prevent material from reaching sewage system, holes and cellars.
- Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (diatomite, universal binders, for small amounts tissues).
- Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

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7 Handling and Storage

- Handling
 - Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
 - · Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- · 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: None.
- · Specific end use(s) No further relevant information available.

8 Exposure controls and personal protection

- · 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.

Not required.

· -	DNELS		
72869-86-	72869-86-4 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diy bismethacrylate		
Oral	general population, long term, systemic	0.3 mg/Kg (not defined)	
Dermal	worker industrial, long term, systemic	1.3 mg/Kg/d (not defined)	
	general population, long term, systemic	0.7 mg/Kg/d (not defined)	
Inhalative	worker industrial, long term, systemic	3.3 mg/m3 (not defined)	
	general population, long term, systemic	0.6 mg/m3 (not defined)	
55818-57-	0 Bisphenol A Diglycidylether Diacryl	ate (BADGE-DA)	
Dermal	worker industrial, long term, systemic	17.5 mg/Kg/d (not defined)	
Inhalative	worker industrial, long term, systemic	122.5 mg/m3 (not defined)	
109-16-0 t	109-16-0 triethylen glycol dimethacrylate		
Oral	general population, long term, systemic	8.33 mg/Kg (not defined)	
Dermal	worker industrial, long term, systemic	13.9 mg/Kg/d (not defined)	
	general population, long term, systemic	8.33 mg/Kg/d (not defined)	
Inhalative	worker industrial, long term, systemic	48.5 mg/m3 (not defined)	
	general population, long term, systemic	14.5 mg/m3 (not defined)	
· J	· PNECs		

PNECS

72869-86-4 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate

freshwater	0.01 mg/l (not defined)
marine water	0.001 mg/l (not defined)
sewage treatment plant	3.61 mg/l (not defined)
	4.56 mg/Kg (not defined)

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sediment, dry weight, marine water	0.46 mg/Kg (not defined)
soil, dry weight	0.91 mg/Kg (not defined)
55818-57-0 Bisphenol A Diglycidy	ylether Diacrylate (BADGE-DA)
freshwater	0.1 mg/l (not defined)
marine water	0.01 mg/l (not defined)
intermediate water release	1 mg/l (not defined)
sewage treatment plant	10 mg/l (not defined)
sediment, dry weight, freshwater	35.8 mg/Kg (not defined)
soil, dry weight	71 mg/Kg (not defined)
109-16-0 triethylen glycol dimeth	acrylate
freshwater	0.016 mg/l (not defined)
marine water	0.002 mg/l (not defined)
sewage treatment plant	1.7 mg/l (not defined)
sediment, dry weight, freshwater	0.185 mg/Kg (not defined)
sediment, dry weight, marine water	0.018 mg/Kg (not defined)
soil, dry weight	0.027 mg/Kg (not defined)

[·] 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 neccessary with efficient local exhaust. If exposition to vapours is possible, use breathing protective mask (filter A).

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.

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: Tightly sealed safety glasses.
- Body protection: Light weight protective clothing

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Information on basic physical and che	emical properties	
General Information		
Appearance:	Death	
· Form: · Colour:	Pasty	
Colour:	Colourless Brown	
	White	
	Pink	
· Smell:	Ester-like	
· Odour threshold:	Not determined.	
· pH-value:	Not determined.	
· Change in condition		
Melting point/freezing point:	Not determined	
· Initial boiling point and boiling r	ange: 100 °C	
· Flash point:	>100 °C	
Inflammability (solid, gaseous)	Not applicable.	
· Ignition temperature:	400 °C	
· Decomposition temperature:	Not determined.	
· Self-inflammability:	Product is not selfigniting.	
· Explosive properties:	Product is not explosive.	
	Not determined.	
· Critical values for explosion:		
· Lower:	Not determined.	
· Upper:	Not determined.	
· Steam pressure at 20 °C:	40 hPa	
Density at 20 °C	1.86 g/cm³	
· Relative density	Not determined.	
· Vapour density	Not determined.	
Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
· Water:	Not miscible or difficult to mix	
· Partition coefficient: n-octanol/wate	er: Not determined.	
· Viscosity:		
dynamic:	Not determined.	
· kinematic:	Not determined.	
· Solvent content:		
	21-110/	
· Water:	3.4-<4.4 %	
· Water:	70.2 %	

10 Stability and Reactivity

· Reactivity No further relevant information available.

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- · 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: -

11 Toxicological Information

- · Information on toxicological effects
 - · Acute toxicity

	Acute toxicity		
· LD/LC50 values that are relevant for classification:			
65997-18-4 fi	65997-18-4 frits, chemicals		
Oral	LD50	>2,000 mg/kg (rat) (OECD 423)	
Dermal	LD50	>2,000 mg/kg (rat) (OECD 402)	
7631-86-9 sil	icon dioxide,	chemically prepared	
Oral	LD50	>5,000 mg/kg (rat)	
Dermal	LD50	>5,000 mg/kg (rabbit)	
		-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl	
b	ismethacryla		
Oral	LD50	>5,000 mg/kg (rat) (OECD 401)	
Dermal	LD50	>2,000 mg/kg (rat) (OECD 402)	
2530-85-0 3-1	trimethoxysil	ylpropyl methacrylate	
Oral	LD50	>2,000 mg/kg (rat)	
Dermal	LD50	>2,000 mg/kg (rabbit)	
55818-57-0 B	Bisphenol A D	Diglycidylether Diacrylate (BADGE-DA)	
Oral	LD0	>2,000 mg/kg (rat) (OECD 401)	
Dermal	LD0	>2,000 mg/kg (rat) (OECD 402)	
Sensitisation	sensitization	(human)	
		(mouse) (LLNA)	
109-16-0 trie	109-16-0 triethylen glycol dimethacrylate		
Oral	LD50	8,300 mg/kg (rat)	
Dermal	LD50	>2,000 mg/kg (mouse)	
	111497-86-0 2-propenoic acid, 1,1'-[(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)]]		
		on products with diethylamine	
Oral	LD50	>5,000 mg/kg (rat) (OECD 401)	
Dermal	LD50	>2,000 mg/kg (rat) (OECD 402)	

Respiratory or skin sensitisation Sensitization possible by skin contact.

Additional toxicological information:

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Reproductive toxicity Based on available data, the classification criteria are not met.



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12 Ecological	
· Toxicity	
· Aquatic to	xicity:
65997-18-4 frit	ts, chemicals
LC50/96h 2	≥3.09 mg/l (fish)
	≥2.4 mg/l (algae)
bis	7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl smethacrylate
	>1.2 mg/l (daphnia) (OECD 202)
	10.1 mg/l (fish) (OECD 203)
ErC50 / 72 h >	>0.68 mg/l (algae) (OECD 201)
	0.21 mg/l (algae) (OECD 201)
	rimethoxysilylpropyl methacrylate
	>100 mg/l (daphnia) (EU C2.)
	>100 mg/l (fish) (EU C.1)
	sphenol A Diglycidylether Diacrylate (BADGE-DA)
	>110 mg/l (algae) (OECD 201)
	>79 mg/l (fish) (OECD 203)
	hylen glycol dimethacrylate
	51.9 mg/L (daphnia) (OECD 211)
	16.4 mg/l (fish) (OECD 203)
	32 mg/l (daphnia) (OECD 211)
	>100 mg/l (algae) (OECD 201)
	18.6 mg/l (algae) (OECD 201)
EbC50 / 72h 7	72.8 mg/l (algae) (OECD 201)
· Persistence a	nd degradability
bis	7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl smethacrylate
Biodegradation	n 22 % /28d (not defined) (OECD 301B; ISO/ 9439/ EEC 92/69/V, C.4-C)
	rimethoxysilylpropyl methacrylate
	n 69 % /28d (not defined) (OECD 301F; ISO 9408/ EEC 92/69/V, C.4-D)
	hylen glycol dimethacrylate
Biodegradation	n 85 % /28d (not defined) (OECD 301B; ISO/ 9439/ EEC 92/69/V, C.4-C)

- · Behaviour in environmental systems:
 - · Bioaccumulative potential No further relevant information available. · 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, even in small

Danger to drinking water if even extremely small quantities leak into soil.

• Results of PBT and vPvB assessment

• PBT: Not applicable.

• vPvB: Not applicable.

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· Other adverse effects No further relevant information available.

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13 Disposal considerations

- · Waste treatment methods
 - Recommendation

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

Disposal must be made according to official regulations.

- · Uncleaned packagings:
 - · Recommendation:

Disposal must be made according to official regulations. Non contaminated packagings can be used for recycling.

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	

· Safety, healt	h and environmental regulations/legislation specific for the substance or mixture
	stralian Inventory of Industrial Chemicals
7631-86-9	silicon dioxide, chemically prepared
	diurethandimethacrylate
	Bisphenol A Diglycidylether Diacrylate (BADGE-DA)
1314-23-4	zirconium oxide
	Silica (trimethylsilyl) oxy - modified
109-16-0	triethylen glycol dimethacrylate
2530-85-0	3-trimethoxysilylpropyl methacrylate
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	dl-bornane-2,3-dione		
128-37-0	2,6-di-tert-butyl-p-cresol		
	2,2-dimethoxy-1,2-diphenylethan-1-one		
68186-91-4	Kupfer-, Chrom-, Eisenoxid-Spinell		
13463-67-7	Titanium dioxide		
	Chrome Antimony Titanate		
	Zinc iron chromite brown spinel		
5870-38-2	Diethyl-(2,5-dihydroxyterephthalat)		
	· Australia: Priority Existing Chemicals		
None of the i	ngredients is listed.		

[·] Directive 2012/18/EU

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.

Abbreviations and acronyms:

ADR: Accord relatif au transport international 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

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)

LC50: Lethal concentration, 50 percent

LC50: Lethal concentration, so 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 Skin Sens. 1: Skin sensitisation – Category 1 Skin Sens. 1B: Skin sensitisation – Category 1B

* Data compared to the previous version altered.

Named dangerous substances - ANNEX I None of the ingredients is listed.

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