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Safety Data Sheet according to WHS Regulations

Printing date 17.07.2024

Version number 5

Revision: 17.07.2024

Hazardous according to criteria of Australian Safety and Compensation Council.

1 Identification

· Product identifier

• Trade name: PALA cre-active gum

• **Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available.

· Application of the substance / the mixture Auxiliary for manufacture of dental prothesis

· 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-diyl bismethacrylate 1,12-Dodecanediol dimethacrylate

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.

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· Chemical characterisation: Mixtures · Description: -		
· Dangero	ous 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 Skin Sens. 1B, H317	<i>≥</i> 10- <i>≤</i> 25%
72829-09-5	1,12-Dodecanediol dimethacrylate Skin Sens. 1B, H317	<i>≥</i> 1-≤10%
109-16-0	triethylen glycol dimethacrylate Skin Sens. 1B, H317	<i>≥</i> 1- <i>≤</i> 5%

4 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

[·] 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.
- Protective equipment: No special measures required.
- · Additional information -

6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures Avoid contact with eyes and skin.

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).

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· 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.

7 Handling and Storage

· Handling

Precautions for safe handling

No special measures required.

Keep containers tightly sealed.

Ensure good ventilation/exhaustion at the workplace.

- Information about protection against explosions and fires: No special measures required. · 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 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 72869-86-4 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl 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)	
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)	
· PNI	· PNECs		
72869-86-	72869-86-4 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate		
freshwate	r 0.01 mg/l (not	defined)	
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pend on the material, but also on further facturer. As the product is a preparation of can not be calculated in advance and has manufacturer of the protective gloves and ninutes gloves made of the following



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· Smell:	Weak, characteristic	
· Odour threshold:	Not determined.	
pH-value:	Mixture is non-soluble (in water).	
Change in condition	· · · · · · · · · · · · · · · · · · ·	
• Melting point/freezing point:	Not determined	
Initial boiling point and boiling	n range: 251 °C	
Flash point:	>100 °C	
Inflammability (solid, gaseous)	Not applicable.	
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:	Not determined.	
Density	Not determined	
· 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/wa	ater: Not determined.	
Viscosity:		
· dynamic:	Not determined.	
· kinematic:	Not determined.	
Other information	No further relevant information available.	

10 Stability and Reactivity

· Reactivity No further relevant information available.

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

· LD/LC50 values that are relevant for classification:

112945-52-5 Amorphous silica

Oral LD50 >5,000 mg/kg (rat) (OECD 401)

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Dermal LD50 >5,000 mg/kg (rabbit) 72869-86-4 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate

Oral LD50 >5,000 mg/kg (rat) (OECD 401)

Dermal LD50 >2,000 mg/kg (rat) (OECD 402)

2530-85-0 3-trimethoxysilylpropyl methacrylate

Oral LD50 >2,000 mg/kg (rat)

Dermal LD50 >2,000 mg/kg (rabbit)

72829-09-5 1,12-Dodecanediol dimethacrylate

Oral LD0 >2,000 mg/kg (rat) (OECD 423)

109-16-0 triethylen glycol dimethacrylate

Oral LD50 8,300 mg/kg (rat)

Dermal LD50 >2,000 mg/kg (mouse)

- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitisation
- May cause an allergic skin reaction.
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

· Toxicity	
· Aquatic t	oxicity:
112945-52-5	Amorphous silica
LC50/96h	>10,000 mg/l (fish) (OECD 203)
EC50 / 24h	>1,000 mg/l (daphnia)
	,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate
EC50/48h	>1.2 mg/l (daphnia) (OECD 202)
LC50/96h	10.1 mg/l (fish) (OECD 203)
ErC50 / 72 h	>0.68 mg/l (algae) (OECD 201)
NOEC / 72h	0.21 mg/l (algae) (OECD 201)
2530-85-0 3-	trimethoxysilylpropyl methacrylate
EC50/48h	>100 mg/l (daphnia) (EU C2.)
LC50/96h	>100 mg/l (fish) (EU C.1)
109-16-0 trie	thylen glycol dimethacrylate
EC50/21d	51.9 mg/L (daphnia) (OECD 211)
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LC50/96h 16.4 mg/l (fish) (OECD 203)		
NOEC / 21d 32 mg/l (daphnia) (OECD 211)		
ErC50 / 72 h >100 mg/l (algae) (OECD 201)		
NOEC / 72h 18.6 mg/l (algae) (OECD 201)		
EbC50 / 72h 72.8 mg/l (algae) (OECD 201)		
· Persistence and degradability		
72869-86-4 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1, bismethacrylate		
Biodegradation 22 % /28d (not defined) (OECD 301B; ISO/ 9439/ EEC 92/69/V, C.4-C)		
2530-85-0 3-trimethoxysilylpropyl methacrylate		
Biodegradation 69 % /28d (not defined) (OECD 301F; ISO 9408/ EEC 92/69/V, C.4-D)		
109-16-0 triethylen glycol dimethacrylate		
Biodegradation 85 % /28d (not defined) (OECD 301B; ISO/ 9439/ EEC 92/69/V, C.4-C)		
 Mobility in soil No further relevant information available. Additional ecological information: General notes: Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewersystem. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant information available. 	age	
13 Disposal considerations		
· Waste treatment methods		
• Recommendation Must not be disposed of together with household garbage. Do not allow product to reach sew system. Disposal must be made according to official regulations.	age	
• Uncleaned packagings: • Recommendation: Disposal must be made according to official regulations. Non contaminated packagings can be used for recycling.		

4 Transport information	
UN-Number ADG, IMDG, IATA	UN3082
UN proper shipping name ADG	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (7,7,9(or 7,9,9)-
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	trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane 1,16-diyl bismethacrylate, 1,12-Dodecanedio dimethacrylate)
·IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S. (7,7,9(or 7,9,9)-trimethyl-4,13-dioxo
	3,14-dioxa-5,12-diazahexadecane-1,16-diy
	bismethacrylate, 1,12-Dodecanediol dimethacrylate) MARINE POLLUTANT
·IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE
	LIQUID, N.O.S. (7,7,9(or 7,9,9)-trimethyl-4,13-dioxo 3,14-dioxa-5,12-diazahexadecane-1,16-diy
	bismethacrylate, 1,12-Dodecanediol dimethacrylate)
Transport hazard class(es)	
ADG	
· Class	9 (M6) Miscellaneous dangerous substances an articles.
· Label	9
· IMDG, IATA	
· Class · Label	9 Miscellaneous dangerous substances and articles 9
Packing group · ADG, IMDG, IATA	
Environmental hazards:	
• Marine pollutant:	No
· Special marking (ADG):	Symbol (fish and tree) Symbol (fish and tree)
· Special marking (IATA):	Symbol (fish and tree)
Special precautions for user	Warning: Miscellaneous dangerous substances an articles.
· Kemler Number:	90
· EMS Number: · Stowage Category	F-A,S-F A
Transport in bulk according to Anne Marpol and the IBC Code	ex II of Not applicable.
Transport/Additional information:	-
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• ADG • Limited quantities (LQ) • Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
 Transport category Tunnel restriction code 	3 (-)
• IMDG • Limited quantities (LQ) • Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (7,7,9(OR 7,9,9)- TRIMETHYL-4,13-DIOXO-3,14-DIOXA-5,12- DIAZAHEXADECANE-1,16-DIYL BISMETHACRYLATE, 1,12-DODECANEDIOL DIMETHACRYLATE), 9, III

Australian Inventory of Industrial Chemicals	
112945-52-5	Amorphous silica
72869-86-4	7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diy. bismethacrylate
2530-85-0	3-trimethoxysilylpropyl methacrylate
72829-09-5	1,12-Dodecanediol dimethacrylate
109-16-0	triethylen glycol dimethacrylate
102262-30-6	Silica (trimethylsilyl) oxy - modified
24650-42-8	2,2-dimethoxy-1,2-diphenylethan-1-one
64-19-7	acetic acid
1345-16-0	Cobalt zinc aluminate blue spinel
4948-15-6	C.I. Pigment Red 149
68186-88-9	Zinc iron chromite brown spinel
68186-91-4	Kupfer-, Chrom-, Eisenoxid-Spinell
13463-67-7	titanium dioxide
10373-78-1	dl-bornane-2,3-dione
80-62-6	methyl methacrylate
128-37-0	2,6-di-tert-butyl-p-cresol
7732-18-5	water, distilled, conductivity or of similar purity
77-99-6	propylidynetrimethanol



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· Australia: Priority Existing Chemicals

None of the ingredients is listed.

Directive 2012/18/EU • Named dangerous substances - ANNEX I None of the ingredients is listed.

· National regulations

The product is subject to classification in accordance with the prevailing version of the regulations on hazardous materials.

· Other regulations, limitations and prohibitive regulations · AICS - Australian Inventory of Chemical Substances 112945-52-5 Amorphous silica 72869-86-4 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl hismethacrylate

	Dismeinacrylate
	3-trimethoxysilylpropyl methacrylate
	1,12-Dodecanediol dimethacrylate
	triethylen glycol dimethacrylate
	Silica (trimethylsilyl) oxy - modified
	2,2-dimethoxy-1,2-diphenylethan-1-one
64-19-7	acetic acid
	Cobalt zinc aluminate blue spinel
	C.I. Pigment Red 149
	Zinc iron chromite brown spinel
68186-91-4	Kupfer-, Chrom-, Eisenoxid-Spinell
	Chrome Antimony Titanate
13463-67-7	titanium dioxide
	dl-bornane-2,3-dione
	methyl methacrylate
	2,6-di-tert-butyl-p-cresol
7732-18-5	water, distilled, conductivity or of similar purity
	Diethyl-(2,5-dihydroxyterephthalat)
77-99-6	propylidynetrimethanol
<u>.</u>	

· 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

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

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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 LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Skin Sens. 1: Skin sensitisation – Category 1 Skin Sens. 1B: Skin sensitisation – Category 1B • * Data compared to the previous version altered.