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## Safety Data Sheet according to WHS Regulations

Printing date 29.07.2024 Version number 5 Revision: 29.07.2024

Hazardous according to criteria of Australian Safety and Compensation Council.

#### 1 Identification

- · Product identifier
  - Trade name: Pala cre-active gingiva
  - · 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

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



GHS07

- · 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 Hexamethylene diisocyanate, trimers, reactionproducts with 2-hydroxyethyl acrylate 1.12-Dodecanediol 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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Trade name: Pala cre-active gingiva

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#### 3 Composition and Information on Ingredients

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

· Dangerou	Dangerous 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	≥50-≤75%
162492-01-5	Hexamethylene diisocyanate, trimers, reactionproducts with 2-hydroxyethyl acrylate Skin Sens. 1A, H317	≥10-≤25%
68909-20-6	amorphe Kieselsäure, mit Sialamin oberflächenbehandelt STOT RE 2, H373	≥5-<10%
72829-09-5	1,12-Dodecanediol dimethacrylate Skin Sens. 1B, H317	≥1-≤10%
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide Repr. 1B, H360Fd Skin Sens. 1B, H317	≥0.1-<0.3%

#### ·SVHC

75980-60-8 diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

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

#### 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. If symptoms persist, 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

· 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: Put on breathing apparatus.

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#### Trade name: Pala cre-active gingiva

· Additional information -

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#### 6 Accidental Release Measures

· Personal precautions, protective equipment and emergency procedures

Wear protective clothing.

Avoid contact with eyes and skin.

Environmental precautions:

Do not allow product to reach sewage system or water bodies.

Do not allow to enter the ground/soil.

· Methods and material for containment and cleaning up:

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

Dispose of the material collected according to regulations.

· 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 No special measures required.
  - · 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: Store cool (not above 25 °C).
- · 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)

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## Trade name: Pala cre-active gingiva

162492-01	1-5 Hexamethylene dii	socvanate ti	(Contd. of p rimers, reactionproducts with 2-hydroxye
102402 0	acrylate	oooyanato, ti	more, reaction producte with 2 my area ye
Oral	general population, long	term, systemic	3.3 mg/Kg (not defined)
Dermal	worker industrial, long te	-	66.7 mg/Kg/d (not defined)
			33.3 mg/Kg/d (not defined)
Inhalative	worker industrial, long te	rm, systemic	32.9 mg/m3 (not defined)
	_	-	5.8 mg/m3 (not defined)
131-57-7 (	Oxybenzone	· •	,
Oral	general population, long	term, systemic	2 mg/Kg (not defined)
Dermal	worker industrial, long te	rm, systemic	39 mg/Kg/d (not defined)
	general population, long	term, systemic	20 mg/Kg/d (not defined)
Inhalative	worker industrial, long te	rm, systemic	27.7 mg/m3 (not defined)
	general population, long	term, systemic	6.8 mg/m3 (not defined)
75980-60-	8 diphenyl(2,4,6-trimeth	ylbenzoyl)pho	osphine oxide
Oral	general population, long	term, systemic	0.0833 mg/Kg (not defined)
Dermal	worker industrial, long te	rm, systemic	0.233 mg/Kg/d (not defined)
	general population, long	term, systemic	0.0833 mg/Kg/d (not defined)
Inhalative	worker industrial, long te	rm, systemic	0.822 mg/m3 (not defined)
	general population, long	term, systemic	0.145 mg/m3 (not defined)
· PNI	FCs	<u> </u>	,
		thvl-4.13-dio	xo-3.14-dioxa-5.12-diazahexadecane-1.16-
		thyl-4,13-dio	xo-3,14-dioxa-5,12-diazahexadecane-1,16-
	4 7,7,9(or 7,9,9)-trime bismethacrylate	thyl-4,13-dio.	
72869-86-	4 7,7,9(or 7,9,9)-trime bismethacrylate r		defined)
<b>72869-86-</b> freshwatei marine wa	4 7,7,9(or 7,9,9)-trime bismethacrylate r	0.01 mg/l (not	defined) it defined)
<b>72869-86-</b> freshwater marine wa sewage tro	4 7,7,9(or 7,9,9)-trime bismethacrylate r iter	0.01 mg/l (not 0.001 mg/l (no	defined) t defined) defined)
<b>72869-86-</b> freshwater marine wa sewage tro sediment,	4 7,7,9(or 7,9,9)-trime bismethacrylate r iter eatment plant	0.01 mg/l (not 0.001 mg/l (not 3.61 mg/l (not 4.56 mg/Kg (n	defined) of defined) defined) of defined)
<b>72869-86-</b> freshwater marine wa sewage tro sediment,	4 7,7,9(or 7,9,9)-trime bismethacrylate r ster eatment plant dry weight, freshwater dry weight, marine water	0.01 mg/l (not 0.001 mg/l (not 3.61 mg/l (not 4.56 mg/Kg (n	defined) of defined) defined) of defined) of defined) of defined)
72869-86- freshwater marine wa sewage tro sediment, sediment, soil, dry w	47,7,9(or 7,9,9)-trime bismethacrylate r ster eatment plant dry weight, freshwater dry weight	0.01 mg/l (not 0.001 mg/l (not 3.61 mg/l (not 4.56 mg/Kg (n 0.46 mg/Kg (n	defined)  t defined)  defined)  ot defined)  ot defined)  ot defined)  ot defined)
72869-86- freshwater marine wa sewage tro sediment, sediment, soil, dry w 162492-0	47,7,9(or 7,9,9)-trime bismethacrylate r ster eatment plant dry weight, freshwater dry weight, marine water eight 1-5 Hexamethylene diisacrylate	0.01 mg/l (not 0.001 mg/l (not 3.61 mg/l (not 4.56 mg/Kg (n 0.46 mg/Kg (n 0.91 mg/Kg (n	defined)  It defined)  defined)  ot defined)  ot defined)  ot defined)  ot defined)  rimers, reactionproducts with 2-hydroxye
72869-86- freshwater marine wa sewage tre sediment, sediment, soil, dry w 162492-01	47,7,9(or 7,9,9)-trime bismethacrylate  reter eatment plant dry weight, freshwater dry weight, marine water eight 1-5 Hexamethylene dii acrylate	0.01 mg/l (not 0.001 mg/l (not 3.61 mg/l (not 4.56 mg/Kg (n 0.46 mg/Kg (n 0.91 mg/Kg (n socyanate, ti	defined)  It defined)  defined)  ot defined)  ot defined)  ot defined)  ot defined)  rimers, reactionproducts with 2-hydroxyes
72869-86- freshwater marine wa sewage tre sediment, sediment, soil, dry w 162492-01 freshwater marine wa	47,7,9(or 7,9,9)-trime bismethacrylate  reter eatment plant dry weight, freshwater dry weight, marine water eight 1-5 Hexamethylene dii acrylate reter	0.01 mg/l (not 0.001 mg/l (not 3.61 mg/l (not 4.56 mg/Kg (n 0.46 mg/Kg (n 0.91 mg/Kg (n socyanate, ti 0.1 mg/l (not of	defined) of defined) defined) of defined) of defined) of defined) of defined) of defined) rimers, reactionproducts with 2-hydroxyer defined) defined)
72869-86- freshwater marine wa sewage tro sediment, sediment, soil, dry w 162492-01 freshwater marine wa sewage tro	47,7,9(or 7,9,9)-trime bismethacrylate  reter eatment plant dry weight, freshwater dry weight, marine water eight 1-5 Hexamethylene dii. acrylate reter eatment plant	0.01 mg/l (not 0.001 mg/l (not 3.61 mg/l (not 4.56 mg/Kg (n 0.46 mg/Kg (n 0.91 mg/Kg (n socyanate, ti 0.1 mg/l (not 0.01 mg/l (not 3.493 mg/l (not	defined)  t defined)  defined)  ot defined)  ot defined)  ot defined)  rimers, reactionproducts with 2-hydroxyes  defined)  defined)  defined)
72869-86- freshwater marine wa sewage tro sediment, sediment, soil, dry w 162492-01 freshwater marine wa sewage tro sediment,	47,7,9(or 7,9,9)-trime bismethacrylate  reter eatment plant dry weight, freshwater dry weight, marine water eight 1-5 Hexamethylene diit acrylate reter eatment plant dry weight, freshwater	0.01 mg/l (not 0.001 mg/l (not 3.61 mg/l (not 4.56 mg/Kg (n 0.46 mg/Kg (n 0.91 mg/Kg (n socyanate, ti 0.1 mg/l (not 0.01 mg/l (not 3.493 mg/l (not 5.734 mg/Kg (	defined)  It defined)
72869-86- freshwater marine wasewage tre sediment, soil, dry w 162492-07 freshwater marine wasewage tre sediment, sediment, sediment,	47,7,9(or 7,9,9)-trime bismethacrylate r ster eatment plant dry weight, freshwater dry weight, marine water eight 1-5 Hexamethylene dii. acrylate r ster eatment plant dry weight, freshwater dry weight, freshwater dry weight, freshwater dry weight, marine water	0.01 mg/l (not 0.001 mg/l (not 3.61 mg/l (not 4.56 mg/Kg (n 0.46 mg/Kg (n 0.91 mg/Kg (n socyanate, ti 0.1 mg/l (not 0.01 mg/l (not 3.493 mg/l (not 5.734 mg/Kg (	defined) at defined) defined) ot defined) ot defined) ot defined) ot defined) rimers, reactionproducts with 2-hydroxye defined) defined) at defined) inot defined) inot defined)
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72869-86- freshwater marine wa sewage tre sediment, sediment, soil, dry w 162492-01 freshwater marine wa sewage tre sediment, sediment, soil, dry w 131-57-7	47,7,9(or 7,9,9)-trime bismethacrylate  reter eatment plant dry weight, freshwater eight 1-5 Hexamethylene dii. acrylate reter eatment plant dry weight, freshwater eight dry weight, marine water	0.01 mg/l (not 0.001 mg/l) (not 3.61 mg/l) (not 4.56 mg/Kg (n 0.46 mg/Kg (n 0.91 mg/l) (not 0.01 mg/l) (not 0.01 mg/l) (not 3.493 mg/l) (not 5.734 mg/Kg (0.573 mg/Kg (1.088 mg/Kg (	defined) of defined) of defined) of defined) of defined) of defined) of defined) rimers, reactionproducts with 2-hydroxye defined) defined) of defined) inot defined) inot defined) inot defined) inot defined)
freshwater marine was sewage trosediment, soil, dry was freshwater marine was sewage trosediment, sediment, soil, dry was sediment, soil, dry was freshwater was sediment, soil, dry was freshwater was f	47,7,9(or 7,9,9)-trime bismethacrylate  reter eatment plant dry weight, freshwater eight 1-5 Hexamethylene dii. acrylate reter eatment plant dry weight, freshwater eight acrylate reter eatment plant dry weight, freshwater dry weight, marine water eight Oxybenzone	0.01 mg/l (not 0.001 mg/l (not 3.61 mg/l (not 4.56 mg/Kg (n 0.46 mg/Kg (n 0.91 mg/Kg (n socyanate, ti 0.1 mg/l (not 0.01 mg/l (not 3.493 mg/l (not 5.734 mg/Kg (	ot defined) defined) ot defined) ot defined) ot defined) ot defined) rimers, reactionproducts with 2-hydroxyer defined) defined) defined) inot defined) inot defined) inot defined) inot defined) inot defined)



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#### Trade name: Pala cre-active gingiva

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sediment, dry weight, freshwater	0.066 mg/Kg (not defined)
sediment, dry weight, marine water	0.007 mg/Kg (not defined)
soil, dry weight	0.013 mg/Kg (not defined)
75980-60-8 diphenyl(2,4,6-trimeth	nylbenzoyl)phosphine oxide
freshwater	0.0014 mg/l (not defined)
marine water	0.00014 mg/l (not defined)
sediment, dry weight, freshwater	0.115 mg/Kg (not defined)
sediment, dry weight, marine water	0.0115 mg/Kg (not defined)
soil, dry weight	0.0222 mg/Kg (not defined)

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

· Personal protective equipment

#### General protective and hygienic measures

Keep away from foodstuffs, beverages and food.

Instantly remove any soiled and impregnated garments.

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

Avoid contact with the eyes and skin.

Breathing equipment: Not necessary if room is well-ventilated.

#### · Protection of hands:

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

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

· Eve protection: Safety glasses

· Body protection: Light weight protective clothing

#### 9 Physical and Chemical Properties

#### General Information

Appearance:

Viscous Form: Colour: Brown White Pink

· Smell: Weak, characteristic

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· 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 range: 140 °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:
Upper:
Not determined.
Not determined.
Not determined.
Not determined.
Not determined.
Not determined
Not determined
Not determined.
Not determined.
Not determined.
Not determined.
Not determined.

Solubility in / Miscibility with

· Water: Not miscible or difficult to mix

· Partition coefficient: n-octanol/water: 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:

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

#### 11 Toxicological Information

- · Information on toxicological effects
  - Acute toxicity Based on available data, the classification criteria are not met.

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#### Trade name: Pala cre-active gingiva

Contd. of page 6)  **LD/LC50 values that are relevant for classification:  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)  162492-01-5 Hexamethylene diisocyanate, trimers, reactionproducts with 2-hydroxyethyl acrylate  Oral   LD50   5,000 mg/kg (rat) (OECD 423) Dermal   LD50   >2,000 mg/kg (rat) (OECD 402)  Aerosil R 812_ALT (siehe 66006689)
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)     162492-01-5 Hexamethylene diisocyanate, trimers, reactionproducts with 2-hydroxyethyl acrylate     Oral   LD50   5,000 mg/kg (rat) (OECD 423)     Dermal   LD50   >2,000 mg/kg (rat) (OECD 402)     Aerosil R 812_ALT (siehe 66006689)
Dismethacrylate
Dermal LD50 >2,000 mg/kg (rat) (OECD 402)  162492-01-5 Hexamethylene diisocyanate, trimers, reactionproducts with 2-hydroxyethyl acrylate  Oral LD50 5,000 mg/kg (rat) (OECD 423) Dermal LD50 >2,000 mg/kg (rat) (OECD 402)  Aerosil R 812_ALT (siehe 66006689)
162492-01-5 Hexamethylene diisocyanate, trimers, reactionproducts with 2-hydroxyethyl acrylate  Oral   LD50   5,000 mg/kg (rat) (OECD 423)  Dermal   LD50   >2,000 mg/kg (rat) (OECD 402)  Aerosil R 812_ALT (siehe 66006689)
acrylate     Oral   LD50   5,000 mg/kg (rat) (OECD 423)     Dermal   LD50   >2,000 mg/kg (rat) (OECD 402)     Aerosil R 812_ALT (siehe 66006689)
Oral         LD50         5,000 mg/kg (rat) (OECD 423)           Dermal         LD50         >2,000 mg/kg (rat) (OECD 402)           Aerosil R 812_ALT (siehe 66006689)
Dermal   LD50   >2,000 mg/kg (rat) (OECD 402)     Aerosil R 812_ALT (siehe 66006689)
Aerosil R 812_ALT (siehe 66006689)
= ', '
Oral   LD50   >5,000 mg/kg (rat)
72829-09-5 1,12-Dodecanediol dimethacrylate
Oral LD0 >2,000 mg/kg (rat) (OECD 423)
131-57-7 Oxybenzone
Oral   LD50   >12,800 mg/kg (rat) (OECD 401)
Dermal LD50 >16,000 mg/kg (rabbit) (OECD 402)
75980-60-8 diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide
Oral   LD50   >5,000 mg/kg (rat) (OECD 401)
Dermal LD50 >2,000 mg/kg (rat) (OECD 402)

- 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.

#### 12 Ecological Information

· I oxicity	
· Aquatic to	oxicity:
72869-86-4 7 b	7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl pismethacrylate
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)
	Hexamethylene diisocyanate, trimers, reactionproducts with 2-hydroxyethyl acrylate
LL50/96h	>100 mg/L (fish) (OECD 203)
	(Contd. on page 8



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_		(Contd. of page 7)
	EL50/48h	>100 mg/L (daphnia) (OECD 202)
	EL50/72h	>100 mg/L (algae) (OECD 201)
	NOELR	9.77 mg/L /72h (algae) (OECD 201)
		≥100 mg/L /48h (daphnia) (OECD 202)
		≥100 mg/L /96h (fish) (OECD 203)
	131-57-7 Oxy	ybenzone
	EC50/48h	1.87 mg/l (daphnia) (OECD 202)
	LC50/96h	3.8 mg/l (fish) (OECD 203)
	ErC50 / 72 h	0.67 mg/l (algae) (OECD 201)
	NOEC / 72h	0.18 mg/l (algae) (OECD 201)
	NOEC / 96h	0.72 mg/l (fish) (OECD 203)
	NOEC / 48h	1.15 mg/l (daphnia) (OECD 202)
	75980-60-8 d	liphenyl(2,4,6-trimethylbenzoyl)phosphine oxide
	EC50/48h	10,100 mg/l (algae)
		3.53 mg/l (daphnia) (OECD 202)
	LC50/96h	1.4 mg/l (fish) (OECD 203)
	ErC50 / 72 h	>2.01 mg/l (algae) (OECD 201)
	ErC10/72h	1.56 mg/L (algae) (OECD 201)
Ī	· Persistence	and degradability
		7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl pismethacrylate
	Biodegradation	on 22 % /28d (not defined) (OECD 301B; ISO/ 9439/ EEC 92/69/V, C.4-C)
		Hexamethylene diisocyanate, trimers, reactionproducts with 2-hydroxyethyl acrylate
		on 0 % /29d (not defined) (OECD 301B; ISO/ 9439/ EEC 92/69/V, C.4-C)
	131-57-7 Ox	
		on 60-70 % /28d (not defined)
	75980-60-8 d	liphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

· Behaviour in environmental systems:

# Bioaccumulative potential 131-57-7 Oxybenzone Bloconcentration factor (BCF) >33-<160 (fish) (OECD 305) 75980-60-8 diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide Bloconcentration factor (BCF) | 47-55 (not defined)

Biodegradation 0-10 % /28d (not defined) (OECD 301F; ISO 9408/ EEC 92/69/V, C.4-D)

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

Results of PBT and vPvB assessment

· PBT: Not applicable.

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· **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.

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.

UN-Number · ADG, IMDG, IATA	UN3082
UN proper shipping name	
ADĠ	3082 ENVIRONMENTALLY HAZARDOU SUBSTANCE, LIQUID, N.O.S. (7,7,9(or 7,9, trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecai 1,16-diyl bismethacrylate, 1,12-Dodecaned dimethacrylate)
· IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANC LIQUID, N.O.S. (7,7,9(or 7,9,9)-trimethyl-4,13-dio: 3,14-dioxa-5,12-diazahexadecane-1,16-d bismethacrylate, 1,12-Dodecanediol dimethacrylat MARINE POLLUTANT
· IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANC LIQUID, N.O.S. (7,7,9(or 7,9,9)-trimethyl-4,13-dio: 3,14-dioxa-5,12-diazahexadecane-1,16-d bismethacrylate, 1,12-Dodecanediol dimethacrylate)



·Class

9 (M6) Miscellaneous dangerous substances and articles.

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· Label	9
· IMDG, IATA	
· Class · Label	<ul><li>9 Miscellaneous dangerous substances and articles</li><li>9</li></ul>
Packing group ADG, IMDG, IATA	III
Environmental hazards: Marine pollutant:	No Symbol (fish and tree)
· Special marking (ADG): · Special marking (IATA):	Symbol (fish and tree) Symbol (fish and tree)
Special precautions for user	Warning: Miscellaneous dangerous substances an articles.
· Kemler Number: · EMS Number: · Stowage Category	90 F-A,S-F A
Transport in bulk according to Annex Marpol and the IBC Code	II of Not applicable.
· Transport/Additional information:	-
ADG Limited quantities (LQ) Excepted quantities (EQ) Transport category Tunnel restriction code	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 m 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 m
· UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOU 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



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# 15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture

alian Inventory of Industrial Chemicals
7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate
amorphe Kieselsäure, mit Sialamin oberflächenbehandelt
1,12-Dodecanediol dimethacrylate
Silane, dichlorodimethyl-, reaction products with silica
Amorphous silica
Oxybenzone
2-hydroxy-2-methylpropiophenone
diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide
dl-bornane-2,3-dione
1,4-Bis(mesitylamino)anthrachinon
C. I. Pigment Red 178
C.I. Pigment Red 149
Red acetate fibers
titanium dioxide
2,2-dimethoxy-1,2-diphenylethan-1-one
isobutyl methacrylate
2,6-di-tert-butyl-p-cresol
3-trimethoxysilylpropyl methacrylate
water, distilled, conductivity or of similar purity
polyethylene glycol
propylidynetrimethanol
acetic acid

#### · Australia: Priority Existing Chemicals

None of the ingredients is listed.

- · Directive 2012/18/EU
  - · Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t
  - Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t

#### 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

Substances of very high concern (SVHC) according to REACH, Article 57

75980-60-8 diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

· AICS - Australian Inventory of Chemical Substances

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

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68909-20-6	amorphe Kieselsäure, mit Sialamin oberflächenbehandelt
72829-09-5	1,12-Dodecanediol dimethacrylate
68611-44-9	Silane, dichlorodimethyl-, reaction products with silica
112945-52-5	Amorphous silica
131-57-7	Oxybenzone
	2-hydroxy-2-methylpropiophenone
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide
10373-78-1	dl-bornane-2,3-dione
116-75-6	1,4-Bis(mesitylamino)anthrachinon
3049-71-6	C. I. Pigment Red 178
4948-15-6	C.I. Pigment Red 149
9004-35-7	Red acetate fibers
13463-67-7	titanium dioxide
24650-42-8	2,2-dimethoxy-1,2-diphenylethan-1-one
97-86-9	isobutyl methacrylate
128-37-0	2,6-di-tert-butyl-p-cresol
2530-85-0	3-trimethoxysilylpropyl methacrylate
	water, distilled, conductivity or of similar purity
25322-68-3	polyethylene glycol
77-99-6	propylidynetrimethanol
64-19-7	acetic acid

<sup>·</sup> 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

May cause an allergic skin reaction.

H360Fd May damage fertility. Suspected of damaging the unborn child.

May cause damage to organs through prolonged or repeated exposure.

#### · Abbreviations and acronyms:

ADBreviations 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

I D50' I ethal dose 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Skin Sens. 1: Skin sensitisation – Category 1

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Skin Sens. 1A: Skin sensitisation – Category 1A Skin Sens. 1B: Skin sensitisation – Category 1B Repr. 1B: Reproductive toxicity – Category 1B STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2 • \* Data compared to the previous version altered.