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Safety data sheet according to 1907/2006/EC. Article 31

Printing date 21.12.2023

Version number 4 (replaces version 3)

Revision: 21.12.2023

SECTION 1: Identification of the substance/mixture and of the company/ undertaking · 1.1 Product identifier · Trade name: VENUS Pearl 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. Application of the substance / the mixture Dental filling material · 1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier: Kulzer GmbH Leipziger Straße 2, 63450 Hanau (Germany) Tel.: +49 (0)800 4372522 · Informing department: E-Mail: msds@kulzer-dental.com · 1.4 Emergency telephone number: Emergency CONTACT (24-Hour-Number): +49 (0)6132-84463 SECTION 2: Hazards identification · 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 H317 May cause an allergic skin reaction. Skin Sens. 1 Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects. · 2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation. · Hazard pictograms GHS07 · Signal word Warning Hazard-determining components of labelling: 2-Propenoic acid, (octahydro-4,7-methano-1H-indene-5 -diyl)bis(methyleneiminocarbonyloxy-2,1ethanediyl) ester 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate 2-Propenoic acid, 1,1'-[(octahydro-4,7-methano-1H-indene-5,?-diyl) bis(methyleneoxycarbonylamino-2,1-ethanediyl)] ester triethylen glycol dimethacrylate · Hazard statements H317 May cause an allergic skin reaction. H412 Harmful to aquatic life with long lasting effects. Precautionary statements Avoid release to the environment. P273 P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. · 2.3 Other hazards -(Contd. on page 2)



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

· vPvB: Not applicable.

3.2 Mixtures • Description: -		
 Dangerous components: 		
CAS: 861437-11-8	2-Propenoic acid, (octahydro-4,7-methano-1H-indene-5 - diyl)bis(methyleneiminocarbonyloxy-2,1-ethanediyl) ester Skin Sens. 1, H317 Aquatic Chronic 3, H412	<i>≥</i> 5-<25%
CAS: 72869-86-4 EINECS: 276-957-5 Index number: 607-134-00-4 Reg.nr.: 01-2120751202-68-xxxx	7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12- diazahexadecane-1,16-diyl bismethacrylate Aquatic Chronic 2, H411 Skin Sens. 1B, H317 EUH204	≥2.5- <i>≤</i> 10%
CAS: 945656-78-0	2-Propenoic acid, 1,1'-[(octahydro-4,7-methano-1H- indene-5,?-diyl)bis(methyleneoxycarbonylamino-2,1- ethanediyl)] ester Skin Sens. 1, H317 Aquatic Chronic 3, H412	≥2.5- <u>≤</u> 10%
CAS: 109-16-0 EINECS: 203-652-6 Index number: 607-134-00-4 Reg.nr.: 01-2119969287-21-xxxx	triethylen glycol dimethacrylate Skin Sens. 1B, H317	<i>≥</i> 1- <u>≤</u> 5%
CAS: 131-57-7 EINECS: 205-031-5	Oxybenzone Aquatic Acute 1, H400; Aquatic Chronic 2, H411	<i>≥</i> 0.25-<1%

SECTION 4: First aid measures

· 4.1 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. 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

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• **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available. (Contd. of page 2)

SECTION 5: Firefighting measures

- [•] 5.1 Extinguishing media
 - Suitable extinguishing agents
 - Use fire fighting measures that suit the environment.
 - CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- 5.2 Special hazards arising from the substance or mixture
- Formation of toxic gases is possible during heating or in case of fire.
- 5.3 Advice for firefighters
 - · Protective equipment: No special measures required.
 - · Additional information -

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:** Do not allow to enter drainage system, surface or ground water.
 - Do not allow to enter the ground/soil.
- **6.3 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.
- 6.4 Reference to other sections See Section 7 for information on safe handling
- See Section 7 for information on personal protection equipment.
- See Section 13 for information on disposal.
- -

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace. • Information about protection against explosions and fires: No special measures required.
- 7.2 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.
- · 7.3 Specific end use(s) No further relevant information available.

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8 1 Contro	ol parameters		
· Comp	onents with critical valu	es that require	e monitoring at the workplace:
The pro	oduct does not contain a	ny relevant qua	antities of materials with critical values that have to
	red at the workplace.		
Not req			
· DNI	-		
/2869-86-	bismethacrylate	-	xo-3,14-dioxa-5,12-diazahexadecane-1,16-diy
Oral	general population, long	term, systemic	0.3 mg/Kg (not defined)
Dermal	worker industrial, long te	rm, systemic	1.3 mg/Kg/d (not defined)
	general population, long	term, systemic	0.7 mg/Kg/d (not defined)
Inhalative	worker industrial, long te	rm, systemic	3.3 mg/m3 (not defined)
	general population, long	term, systemic	0.6 mg/m3 (not defined)
109-16-0 t	riethylen glycol dimetha	acrylate	
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 ter		rm, systemic	48.5 mg/m3 (not defined)
	general population, long	term, systemic	14.5 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)
· PNE	Cs		
72869-86-	4 7,7,9(or 7,9,9)-trime bismethacrylate	thyl-4,13-dio	xo-3,14-dioxa-5,12-diazahexadecane-1,16-diy
freshwater		0.01 mg/l (not	defined)
marine wa	ter	0.001 mg/l (no	t defined)
sewage treatment plant 3.61		3.61 mg/l (not	defined)
sediment, dry weight, freshwater 4.56 mg/Kg (n		4.56 mg/Kg (n	ot defined)
sediment,	dry weight, marine water		
soil, dry w	eight	0.91 mg/Kg (n	ot defined)
109-16-0 1	riethylen glycol dimetha	acrylate	
freshwater		0.016 mg/l (no	t defined)
marine wa	ter	0.002 mg/l (no	t defined)
sewage tre	eatment plant	1.7 mg/l (not a	lefined)
sediment, dry weight, freshwater 0.185 mg/Kg			



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sediment, dry weight, marine water 0.018 mg/Kg (not defined) soil, dry weight 0.027 mg/Kg (not defined) 131-57-7 Oxybenzone interface freshwater 0.00067 mg/l (not defined) sewage treatment plant 10 mg/l (not defined) sediment, dry weight, freshwater 0.066 mg/Kg (not defined) sediment, dry weight, marine water 0.013 mg/Kg (not defined) sediment, dry weight 0.013 mg/Kg (not defined) sediment, dry weight 0.013 mg/Kg (not defined) soil, dry weight 0.013 mg/Kg (not defined) soil, dry weight 0.013 mg/Kg (not defined) * Additional information: The lists that were valid during the compilation were used as basis. * 8.2 Exposure controls Individual protection measures, such as personal protective equipment • Individual protection measures, such as 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. • Hand protection If skin contact cannot be avoided, protective gloves are recommended to avoid poss sensitization. Check protective gloves prior to each use for their proper condition.		(Contd. of page
131-57-7 Oxybenzone freshwater 0.00067 mg/l (not defined) marine water 0.000067 mg/l (not defined) sewage treatment plant 0.000067 mg/l (not defined) sediment, dry weight, freshwater 0.066 mg/Kg (not defined) sediment, dry weight 0.000 mg/l (not defined) sediment, dry weight 0.067 mg/l (not defined) soil, dry weight 0.067 mg/Kg (not defined) • Additional information: The lists that were valid during the compilation were used as basis. • 8.2 Exposure controls • Individual protection measures, such as 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. • Hand protection If skin contact cannot be avoided, protective gloves are recommended to avoid poss 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 fur marks of quality and varies from manufacturer to manufacturer. As the product is a prepara of several substances, the resistance of the glove material can not be calculated in adva and has therefore t		
freshwater 0.00067 mg/l (not defined) marine water 0.000067 mg/l (not defined) sewage treatment plant 10 mg/l (not defined) sediment, dry weight, freshwater 0.066 mg/Kg (not defined) soil, dry weight 0.013 mg/Kg (not defined) soil, dry weight 0.013 mg/Kg (not defined) soil, dry weight 0.013 mg/Kg (not defined) *Additional information: The lists that were valid during the compilation were used as basis. *Alditional protection measures, such as 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. · Hand protection If skin contact cannot be avoided, protective gloves are recommended to avoid poss 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 fur marks of quality and varies from manufacturer to manufacturer. As the product is a prepara of several substances, the resistance of the glove material can not be calculated in adva and has therefore to be checked prior to the application. Penetration time of glove material		0.027 mg/Kg (not defined)
marine water 0.000067 mg/l (not defined) sewage treatment plant 10 mg/l (not defined) sediment, dry weight, freshwater 0.066 mg/Kg (not defined) soil, dry weight 0.007 mg/Kg (not defined) soil, dry weight 0.013 mg/Kg (not defined) • Additional information: The lists that were valid during the compilation were used as basis. • Additional information: The lists that were valid during the compilation were used as basis. • Additival protection measures, such as personal protective equipment • General protective and hygienic measures Individual protection • Individual protection • Material of guipment: Not required. • Hand protection If skin contact cannot be avoided, protective gloves are recommended to avoid poss 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 fur marks of quality and varies from manufacturer to manufacturer. As the product is a prepara of several substances, the resistance of the glove material can not be calculated in adva 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 glo	-	
sewage treatment plant 10 mg/l (not defined) sediment, dry weight, freshwater 0.066 mg/Kg (not defined) soil, dry weight 0.013 mg/Kg (not defined) • Additional information: The lists that were valid during the compilation were used as basis. • 8.2 Exposure controls • Individual protection measures, such as 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. • Hand protection If skin contact cannot be avoided, protective gloves are recommended to avoid poss 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 fur marks of quality and varies from manufacturer to manufacturer. As the product is a prepara of several substances, the resistance of the glove material The exact break trough time has to be found out by the manufacturer of the protective glove and has to be observed. • Penetration time of glove material The exact break trough time has to be found out by the manufacturer of the protective glow and has to be observed. • For the permanent contact of a maximum of 15 minutes gloves made of th		• · · · · · · · · · · · · · · · · · · ·
sediment, dry weight, freshwater sediment, dry weight, marine water soil, dry weight 0.066 mg/Kg (not defined) 0.013 mg/Kg		• • •
sediment, dry weight, marine water soil, dry weight 0.007 mg/Kg (not defined) 0.013 mg/Kg (not defined) • Additional information: The lists that were valid during the compilation were used as basis. • Additional information: The lists that were valid during the compilation were used as basis. • Additional protection measures, such as 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. • Hand protection If skin contact cannot be avoided, protective gloves are recommended to avoid poss 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 fur marks of quality and varies from manufacturer to manufacturer. As the product is a prepara of several substances, the resistance of the glove material can not be calculated in adva 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 glov and has to be observed. • For the permanent contact of a maximum of 15 minutes gloves made of the follow materials are suitable: Butyl rubber, BR Nitrile rubber, NBR	-	
soil, dry weight 0.013 mg/Kg (not defined) • Additional information: The lists that were valid during the compilation were used as basis. • 8.2 Exposure controls • Individual protection measures, such as 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. • Hand protection If skin contact cannot be avoided, protective gloves are recommended to avoid poss 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 fur marks of quality and varies from manufacturer to manufacturer. As the product is a prepara of several substances, the resistance of the glove material can not be calculated in adva 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 glo and has to be observed. • For the permanent contact of a maximum of 15 minutes gloves made of the follow materials are suitable: Butyl rubber, BR Nitrile rubber, NBR • Eye/face protection not absolutely neccessary		
 Additional information: The lists that were valid during the compilation were used as basis. 8.2 Exposure controls Individual protection measures, such as personal protective equipment General protective and hygienic measures		
 8.2 Exposure controls Individual protection measures, such as 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. Hand protection If skin contact cannot be avoided, protective gloves are recommended to avoid poss 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 fur marks of quality and varies from manufacturer to manufacturer. As the product is a prepara of several substances, the resistance of the glove material can not be calculated in adva 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 glove and has to be observed. For the permanent contact of a maximum of 15 minutes gloves made of the follow materials are suitable: Butyl rubber, BR Nitrile rubber, NBR 		,
 Individual protection measures, such as 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. Hand protection If skin contact cannot be avoided, protective gloves are recommended to avoid poss sensitization. Check protective gloves prior to each use for their proper condition. recommended 	• Additional information: The	lists that were valid during the compilation were used as basis.
	 Hand protection If skin contact cannot be a sensitization. Check protective gloves prior recommended Material of gloves The selection of the suita marks of quality and varie of several substances, th and has therefore to be chertation time of glov Penetration time of glov The exact break trough tia and has to be observed. For the permanent commaterials are suitable: Butyl rubber, BR Nitrile rubber, NBR 	avoided, protective gloves are recommended to avoid possib to each use for their proper condition. ble gloves does not only depend on the material, but also on furth is from manufacturer to manufacturer. As the product is a preparati e resistance of the glove material can not be calculated in advan becked prior to the application. e material me has to be found out by the manufacturer of the protective glov tact of a maximum of 15 minutes gloves made of the following polutely neccessary
	Body protection. Light weigh	
	SECTION 9: Physical and cl	hemical properties
SECTION 9: Physical and chemical properties		and chemical properties
• 9.1 Information on basic physical and chemical properties		
9.1 Information on basic physical and chemical properties General Information		Eluid
• 9.1 Information on basic physical and chemical properties • General Information • Physical state Fluid	Physical state	
• 9.1 Information on basic physical and chemical properties • General Information	· Physical state · Colour:	Different according to colour

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Melting point/freezing point:	Not determined	
Boiling point or initial boiling point and		
boiling range	Not determined	
· Flammability	Not applicable.	
• Lower and upper explosion limit		
Lower:	Not determined.	
· Upper:	Not determined.	
· Flash point:	>100 °C (72869-86-4 7,7,9(or 7,9,9)-trimeth	
	4,13-dioxo-3,14-dioxa-5,12-diazahexadecan	
	1,16-diyl bismethacrylate)	
 Decomposition temperature: 	Not determined.	
· SADT	Not determined.	
•••=•	Not determined	
· pH	Not determined.	
Viscosity:		
Kinematic viscosity	Not determined.	
Kinematic viscosity		
dynamic:	Not determined.	
· Solubility		
· Water:	Not miscible or difficult to mix	
 Partition coefficient n-octanol/water (log 		
value)	Not determined.	
· Steam pressure:	Not determined.	
· Vapour pressure:		
· Density and/or relative density		
· Density at 20 °C	2.1 g/cm³	
· Relative density	Not determined.	
· Vapour density	Not determined.	
	further relevant information available.	
· Appearance:		
Form:	Pasty	
Important information on protection of health		
and environment, and on safety.		
· Self-inflammability:	Product is not selfigniting.	
· Explosive properties:	Product is not explosive.	
Change in condition		
 Evaporation rate 	Not determined.	
 Information with regard to physical hazard 		
classes		
· Explosives	Void	
· Flammable gases	Void	
Aerosols	Void	
· Oxidising gases	Void	
Casos undor proseuro	Void	
Gases under pressure	Void	
Flammable liquids		
Flammable solids	Void	
Self-reactive substances and mixtures	Void	
Pyrophoric liquids	Void	
· Pyrophoric solids	Void	
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Self-heating substances and mixtures	Void	
 Substances and mixtures, which emit 		
flammable gases in contact with water	Void	
· Oxidising liquids	Void	
· Oxidising solids	Void	
· Organic peroxides	Void	
· Corrosive to metals	Void	
 Desensitised explosives 	Void	

SECTION 10: Stability and reactivity

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

SECTION 11: Toxicological information

• 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 • Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values that are relevant for classification:

861437-11-82-Propenoic acid, (octahydro-4,7-methano-1H-indene-5 -diyl) bis(methyleneiminocarbonyloxy-2,1-ethanediyl) ester

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

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

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

112945-52-5 Amorphous silica

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

Dermal LD50 >5,000 mg/kg (rabbit)

109-16-0 triethylen glycol dimethacrylate

Oral LD50 8,300 mg/kg (rat)

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

131-57-7 Oxybenzone

Oral LD50 >12,800 mg/kg (rat) (OECD 401)

Dermal LD50 >16,000 mg/kg (rabbit) (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.

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• **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.

11.2 Information on other hazards

Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic t	oxicity:
861437-11-8	2-Propenoic acid, (octahydro-4,7-methano-1H-indene-5 -diyl) bis(methyleneiminocarbonyloxy-2,1-ethanediyl) ester
EC50/48h	24.9 mg/l (daphnia)
72869-86-4 7 b	,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl ismethacrylate
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)
112945-52-5	Amorphous silica
LC50/96h	>10,000 mg/l (fish) (OECD 203)
EC50 / 24h	>1,000 mg/l (daphnia)
	thylen glycol dimethacrylate
EC50/21d	51.9 mg/L (daphnia) (OECD 211)
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)
131-57-7 Oxy	
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	
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 12.2 Persistence and degradability No further relevant information available.

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

Biodegradation 22 % /28d (not defined) (OECD 301B; ISO/ 9439/ EEC 92/69/V, C.4-C)

109-16-0 triethylen glycol dimethacrylate

Biodegradation 85 % /28d (not defined) (OECD 301B; ISO/ 9439/ EEC 92/69/V, C.4-C)

131-57-7 Oxybenzone

Biodegradation 60-70 % /28d (not defined)

12.3 Bioaccumulative potential

131-57-7 Oxybenzone

Bloconcentration factor (BCF) >33-<160 (fish) (OECD 305)

- 12.4 Mobility in soil No further relevant information available.
- 12.5 Results of PBT and vPvB assessment
 - PBT: Not applicable.
 - vPvB: Not applicable.
- 12.6 Endocrine disrupting properties

For information on endocrine disrupting properties see section 11.

12.7 Other adverse effects No further relevant information available.

Additional ecological information:

· General notes: Avoid transfer into the environment.

SECTION 13: Disposal considerations

[•] 13.1 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.

SECTION 14: Transport informatio	n	
· 14.1 UN number or ID number · ADR, ADN, IMDG, IATA	Void	
 14.2 UN proper shipping name ADR ADN, IMDG, IATA 	Void Void	
· 14.3 Transport hazard class(es)		
ADR, ADN, IMDG, IATA Class	Void	
		(Contd. on page 10



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· 14.4 Packing group · ADR, IMDG, IATA	Void	
• 14.5 Environmental hazards: • Marine pollutant:	No	
 14.6 Special precautions for user 	Not applicable.	
 14.7 Maritime transport in bulk according instruments 	to IMO Not applicable.	
· Transport/Additional information:	-	
· UN "Model Regulation":	Void	

SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

No further relevant information available.

· REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

·DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

no information available

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

no information available

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

SECTION 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.
- H400 Very toxic to aquatic life.
- Toxic to aquatic life with long lasting effects. H411
- Harmful to aquatic life with long lasting effects. H412

EUH204 Contains isocyanates. May produce an allergic reaction.

Date of previous version: 09.08.2021

- · Version number of previous version: 3
- · Abbreviations and acronyms:

SADT: Self Accelerating Decomposition Temperature 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

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(Contd. of page 10) 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) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Skin Sens. 11: Skin sensitisation – Category 1 Skin Sens. 11: Skin sensitisation – Category 1B Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 2 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3 • * Data compared to the previous version altered.