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# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 16.11.2022

Version number 3 (replaces version 2)

Revision: 16.11.2022

	ntification of the substance/mixture and of the c	:ompany/
undertaking	-	
• 1.1 Product identifie		
· Trade name: Vei	nus Color	
• <b>1.2 Relevant identifie</b> No further relevant inf	ed uses of the substance or mixture and uses advised against formation available.	
	e substance / the mixture Dental filling material	
• Manufacturer/Sup Kulzer GmbH		
Leipziger Straße 2	, 63450 Hanau (Germany) Tel.: +49 (0)8	800 4372522
	ment: E-Mail: msds@kulzer-dental.com hone number: Emergency CONTACT (24-Hour-Number): +49 (0)6	6132-84463
	ards identification	
	the substance or mixture cording to Regulation (EC) No 1272/2008	
	H315 Causes skin irritation.	
	H319 Causes serious eye irritation.	
•	H317 May cause an allergic skin reaction.	
	H360 May damage fertility or the unborn child.	
•	H412 Harmful to aquatic life with long lasting effects.	
2.2 Label elements Labelling accordi	ing to Regulation (EC) No 1272/2008	
The product is clas • <b>Hazard pictog</b> i	ssified and labelled according to the CLP regulation.	
GHS07 GHS	08	
· Signal word Da	anger	
7,7,9(or 7,9, bismethacrylate 2-ethylhexyl 4-( triethylen glycol • Hazard statem H315 Causes s H319 Causes s H317 May caus H360 May dam H412 Harmful to • Precautionary P280 P305+P351+P3 P321 P321 P332+P313	<ul> <li>'dimethylamino)benzoate</li> <li>I dimethacrylate</li> <li>I dimethacrylate</li> <li>I dimethacrylate</li> <li>I dimethacrylate</li> <li>I dimethacrylate</li> <li>I dimethacrylate</li> <li>I i i i i i i i i i i i i i i i i i i</li></ul>	e protection/
P362	Take off contaminated clothing.	ntd on name 2)
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P405 Store locked up. · Additional information: Restricted to professional users. · 2.3 Other hazards -

· Results of PBT and vPvB assessment

**PBT:** Not applicable.

· vPvB: Not applicable.

3.2 Mixtures Description: -		
<ul> <li>Dangerous components:</li> </ul>		
CAS: 41637-38-1 EC number: 609-946-4 Reg.nr.: 01-2119980659-17-xxxx	bisphenol A polyethnylene glycol diether dimethacrylate Aquatic Chronic 4, H413	<i>≥</i> 10-<25%
CAS: 13760-80-0 EINECS: 237-354-2	ytterbium trifluoride Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	<i>≥</i> 10-<20%
CAS: 72869-86-4 EINECS: 276-957-5 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	≥10-<25%
CAS: 21245-02-3 EINECS: 244-289-3 Reg.nr.: 01-2120766649-35- XXXX	2-ethylhexyl 4-(dimethylamino)benzoate Repr. 1B, H360	<i>≥</i> 0.3- <i>≤</i> 5%
CAS: 131-57-7 EINECS: 205-031-5	Oxybenzone Aquatic Acute 1, H400; Aquatic Chronic 2, H411	<0.25%

### **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.
- After eye contact Rinse opened eye for several minutes under running water. After swallowing Rinse out mouth and then drink plenty of water.

In case of persistent symptoms consult doctor.

- 4.2 Most important symptoms and effects, both acute and delayed
- No further relevant information available.
- · 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

## SECTION 5: Firefighting measures

· 5.1 Extinguishing media

- Suitable extinguishing agents
- CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam. Use fire fighting measures that suit the environment.

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· 5.2 Special hazards arising from the substance or mixture

No further relevant information available.

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 Not required.
- 6.2 Environmental precautions: No special measures required.
- 6.3 Methods and material for containment and cleaning up: Collect mechanically.
- 6.4 Reference to other sections
- See Section 7 for information on safe handling See Section 8 for information on personal protection equipment.
- See Section 8 for information on personal protection
- See Section 13 for information on disposal.

## SECTION 7: Handling and storage

- 7.1 Precautions for safe handling No special measures required. • 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: Store under dry conditions.
- 7.3 Specific end use(s) No further relevant information available.

SECTIO	N 8: Exposure controls/persona	al protection
· <b>Compo</b> The pro	nitored at the workplace.	e <b>monitoring at the workplace:</b> ntities of materials with critical values that have to
· DNI	ELs	
41637-38-	1 bisphenol A polyethnylene glycol di	iether dimethacrylate
Oral	general population, long term, systemic	5 mg/Kg (not defined)
Dermal	worker industrial, long term, systemic	140 mg/Kg/d (not defined)
	general population, long term, systemic	50 mg/Kg/d (not defined)
Inhalative	worker industrial, long term, systemic	98.7 mg/m3 (not defined)
	general population, long term, systemic	17.4 mg/m3 (not defined)
72869-86-	4 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo bismethacrylate	o-3,14-dioxa-5,12-diazahexadecane-1,16-diyl
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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PNECs	
72869-86-4 7,7,9(or 7,9,9)-trimethyl-4 bismethacrylate	4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl
freshwater 0.01	1 mg/l (not defined)
marine water 0.00	01 mg/l (not defined)
sewage treatment plant 3.61	1 mg/l (not defined)
sediment, dry weight, freshwater 4.56	6 mg/Kg (not defined)
sediment, dry weight, marine water 0.46	6 mg/Kg (not defined)
soil, dry weight 0.91	1 mg/Kg (not defined)
	s that were valid during the compilation were used as basis.
General protective and hygienic Wash hands during breaks and at Breathing equipment: Not requir Hand protection The glove material has to be impreparation. Selection of the glove material on the degradation Check protective gloves prior to e recommended Material of gloves The selection of the suitable further marks of quality and va preparation of several subs calculated in advance and has Penetration time of glove material The exact break trough time gloves and has to be observed	t the end of the work. red. permeable and resistant to the product/ the substance/ th a consideration of the penetration times, rates of diffusion an each use for their proper condition. gloves does not only depend on the material, but also o aries from manufacturer to manufacturer. As the product is stances, the resistance of the glove material can not b therefore to be checked prior to the application. <b>aterial</b> has to be found out by the manufacturer of the protectiv d. <b>of a maximum of 15 minutes gloves made of the followin</b>
SECTION 9: Physical and chem	• •
• 9.1 Information on basic physical and	• •
•	• •
9.1 Information on basic physical and General Information Physical state Colour:	<i>I chemical properties</i> Fluid Different according to colour
9.1 Information on basic physical and General Information Physical state Colour: Smell:	<i>I chemical properties</i> Fluid Different according to colour Odourless
9.1 Information on basic physical and General Information Physical state Colour: Smell: Odour threshold:	<i>I chemical properties</i> Fluid Different according to colour Odourless Not determined.
9.1 Information on basic physical and General Information Physical state Colour: Smell: Odour threshold: Melting point/freezing point:	<i>d chemical properties</i> Fluid Different according to colour Odourless Not determined. Not determined
9.1 Information on basic physical and General Information Physical state Colour: Smell: Odour threshold: Melting point/freezing point: Boiling point or initial boiling p	d chemical properties Fluid Different according to colour Odourless Not determined. Not determined oint and
9.1 Information on basic physical and General Information Physical state Colour: Smell: Odour threshold: Melting point/freezing point: Boiling point or initial boiling p boiling range	d chemical properties Fluid Different according to colour Odourless Not determined. Not determined oint and Not determined
9.1 Information on basic physical and General Information Physical state Colour: Smell: Odour threshold: Melting point/freezing point: Boiling point or initial boiling p	d chemical properties Fluid Different according to colour Odourless Not determined. Not determined oint and Not determined Not determined Not determined Not applicable.
9.1 Information on basic physical and General Information Physical state Colour: Smell: Odour threshold: Melting point/freezing point: Boiling point or initial boiling p boiling range Flammability	d chemical properties Fluid Different according to colour Odourless Not determined. Not determined oint and Not determined Not determined Not determined Not applicable.



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· 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)
<ul> <li>Decomposition temperature:</li> </ul>	Not determined.
SADT	
· pH	Not determined.
Viscosity:	
· Kinematic viscosity	Not determined.
· dynamic:	Not determined.
· Solubility	
· Water:	Not miscible or difficult to mix
Partition coefficient n-octanol/water (log	
value)	Not determined.
· Steam pressure:	Not determined.
Density and/or relative density	
· Density at 20 °C	1.9 g/cm³
· Relative density	Not determined.
· Vapour density	Not determined.
	urther relevant information available.
Appearance:	Deatr
· Form:	Pasty
Important information on protection of	
health and environment, and on safety.	Desident in an tractification
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
Gases under pressure	Void
· Flammable liquids	Void
· Flammable solids	Void
<ul> <li>Self-reactive substances and mixtures</li> </ul>	Void
· Pyrophoric liquids	Void
Pyrophoric solids	Void
<ul> <li>Self-heating substances and mixtures</li> </ul>	Void
<ul> <li>Substances and mixtures, which emit</li> </ul>	
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.

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· 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.

10.4 Conditions to avoid No number 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:         41637-38-1 bisphenol A polyethnylene glycol diether dimethacrylate
Acute toxicity Based on available data, the classification criteria are not met. LD/LC50 values that are relevant for classification:
41637-38-1 bisphenol A polyethnylene glycol diether dimethacrylate
Oral LD50 >2000 mg/kg (rat) (OECD 423)
Dermal LD50 >2000 mg/kg (rat) (OECD 402)
72869-86-4 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16- bismethacrylate
Oral LD50 >5000 mg/kg (rat) (OECD 401)
Dermal LD50 >2000 mg/kg (rat) (OECD 402)
68412-38-4 Manganese antimony titanium buff rutile
Oral LD50 >10000 mg/kg (rat)
21245-02-3 2-ethylhexyl 4-(dimethylamino)benzoate
Oral LD50 14900 mg/kg (rat) · Skin corrosion/irritation
Causes skin irritation. • Serious eye damage/irritation Causes serious eye irritation. • 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
21245-02-3 2-ethylhexyl 4-(dimethylamino)benzoate
Oral NOAEL (Fertility) 50 mg/kg/d /64 d (rat) (OECD 421)
<ul> <li>STOT-single exposure Based on available data, the classification criteria are not met.</li> <li>STOT-repeated exposure Based on available data, the classification criteria are not met.</li> <li>Aspiration hazard Based on available data, the classification criteria are not met.</li> <li>Additional toxicological information:         <ul> <li>CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)</li> <li>Repr. 1B</li> </ul> </li> </ul>
11.2 Information on other hazards
· Endocrine disrupting properties
None of the ingredients is listed.

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12.1 Toxicity	
Aquatic t	
	hisphenol A polyethnylene glycol diether dimethacrylate
EC50/72h	>100 mg/l (algae) (OECD 201)
LL50/96h	>100 mg/L (fish) (OECD 203)
EL50/48h	>100 mg/L (daphnia) (OECD 202)
EL50/72h	>100 mg/L (algae) (OECD 201)
NOEC / 21d	≥22.4 mg/l (daphnia) (OECD 211)
NOEC 28d	14.3 mg/l (bacteria)
NOELR	100 mg/L /48h (daphnia) (OECD 202)
k	7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diy bismethacrylate
EC50/48h	>1.2 mg/l (daphnia) (OECD 202)
LC50/96h	10.1 mg/l (fish) (OECD 203)
	>0.68 mg/l (algae) (OECD 201)
	0.21 mg/l (algae) (OECD 201)
68412-38-4 N	<i>l</i> anganese antimony titanium buff rutile
EC50	100 mg/l (daphnia)
· 12.2 Persiste	ence and degradability
41637-38-1 k	isphenol A polyethnylene glycol diether dimethacrylate
Biodegradatio	on 24 % /28d (not defined) (OECD 301D)
k	7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diy bismethacrylate
Biodegradatio	on 22 % /28d (not defined) (OECD 301B; ISO/ 9439/ EEC 92/69/V, C.4-C)
12.4 Mobility 12.5 Results PBT: Not vPvB: No 12.6 Endocri	<i>umulative potential</i> No further relevant information available. <i>i in soil</i> No further relevant information available. <i>of PBT and vPvB assessment</i> applicable. <i>t applicable.</i> <i>ine disrupting properties</i> on on endocrine disrupting properties see section 11. <i>dverse effects</i>

• Recommendation Smaller quantities can be disposed with household garbage.

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

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SECTION 14: Transport information	01	
<ul> <li>14.1 UN number or ID number</li> <li>ADR, IMDG, IATA</li> </ul>	Void	
<ul> <li>14.2 UN proper shipping name</li> <li>ADR, IMDG, IATA</li> </ul>	Void	
· 14.3 Transport hazard class(es) · ADR, IMDG, IATA		
· Class	Void	
<ul> <li>14.4 Packing group</li> <li>ADR, IMDG, IATA</li> </ul>	Void	
<ul> <li>14.5 Environmental hazards: Marine pollutant:</li> </ul>	No	
· 14.6 Special precautions for user	Not applicable.	
14.7 Maritime transport in bulk according IMO instruments	<b>g to</b> 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

· 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

- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation. H335
- May cause respiratory irritation. H360 May damage fertility or the unborn child.
- H400 Very toxic to aquatic life.
- Toxic to aquatic life with long lasting effects. H411
- May cause long lasting harmful effects to aquatic life. H413
- EUH204 Contains isocyanates. May produce an allergic reaction.
- · Date of previous version: 06.06.2021
- · Version number of previous version: 2

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Conto. of page 8) Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation 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 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 DD50: Lethal dose, 50 percent DD50: Lethal dose, 50 percent Skin Intit. 2: Skin consolviritation – Category 2 Skin Sens. 1: Skin sensitisation – Category 2 Skin Sens. 1: Skin sensition – Category 1 Skin Sens. 1: Skin sensition – Category 1B STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 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 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3 Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3 Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3 Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4 \* Data compared to the previous version altered.