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CA

Safety Data Sheet according to HPR, Schedule 1

Printing date 11/16/2022 Reviewed on 11/16/2022 1 Identification · Product identifier · Trade name: Venus Color · Application of the substance / the mixture Dental filling material · Details of the supplier of the safety data sheet Manufacturer/Supplier: Kulzer GmbH Tel.: +49 (0)800 4372522 Leipziger Straße 2, 63450 Hanau (Germany) · Information department: Tel. +1 (800) 431-1785 Fax: +1 (800) 522-1545 e-mail: customer.servicehkna@kulzer-dental.com Emergency telephone number: Emergency CONTACT (24-Hour-Number) ID 105860: (domestic) 1 800 535 5053 or international (001) 352 323 3500 2 Hazard identification Classification of the substance or mixture Skin Irritation - Category 2 H315 Causes skin irritation. Eye Irritation - Category 2A H319 Causes serious eye irritation. Skin Sensitizer - Category 1 H317 May cause an allergic skin reaction. Reproductive Toxicity - Category 1B H360 May damage fertility or the unborn child. · Label elements GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). Hazard pictograms GHS07 GHS08 · Signal word Danger · Hazard-determining components of labeling: 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate 2-ethylhexyl 4-(dimethylamino)benzoate Hazard statements Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. May damage fertility or the unborn child. Precautionary statements Wear protective gloves/protective clothing/eye protection/face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Specific treatment (see on this label). If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing. Store locked up. (Contd. on page 2)



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(Contd. of page 1) Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification system NFPA ratings for USA (scale 0-4)



HMIS-Ratings (Scale 0-4)



· Other hazards -

3 Composition/Information on ingredients

,	Chemical	С	haracterization:	Mixtures

•	Description:	-
	-	

[·] Dangerous components:		
13760-80-0	ytterbium trifluoride	<i>≥</i> 10-<20% w/w *
	Skin Irritation - Category 2, H315; Eye Irritation - Category 2A, H319; Specific Target Organ Toxicity - Single Exposure - Category 3, H335	
	7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12- diazahexadecane-1,16-diyl bismethacrylate Skin Sensitizer - Category 1B, H317	10-25% w/w *
21245-02-3	2-ethylhexyl 4-(dimethylamino)benzoate Reproductive Toxicity - Category 1B, H360	<i>≥</i> 0,1- <i>≤</i> 5% w/w *
* Actual o	concentration ranges are withheld as a trade secret.	. <u></u>

4 First-aid measures

· Description of first aid measures

After inhalation Supply fresh air; consult doctor in case of complaints.

- After skin contact Immediately 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.

If symptoms persist 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.

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5 Fire-fighting measures

· Extinguishing media

- Suitable extinguishing agents
 - CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture No further relevant information available. • Advice for firefighters
- · Protective equipment: No special measures required.
- · Additional information -

6 Accidental release measures

• **Personal precautions, protective equipment and emergency procedures** Not required. • **Environmental precautions:** No special measures required.

- Methods and material for containment and cleaning up: Pick up mechanically.
- 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 disposal information.

7 Handling and storage

· Handling

· Precautions for safe handling No special measures required.

Information about protection against explosions and fires: No special measures required.

- · Conditions for safe storage, including any incompatibilities
 - · Storage
 - · Requirements to be met by storerooms and receptacles: No special requirements.
 - Information about storage in one common storage facility: Not required.
 - Further information about storage conditions: Store in dry conditions.

· Specific end use(s) No further relevant information available.

8 Exposure controls/ Personal protection

Control parameters

Components with limit 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.

- Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls

Personal protective equipment

- General protective and hygienic measures
- Wash hands before breaks and at the end of work.
- · Breathing equipment: Not required.

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· Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:
- Butyl rubber, BR
- Nitrile rubber, NBR
- Eye protection: Safety glasses
- · Body protection: Light weight protective clothing

Information on basic physical and chemical properties • General Information		
· Appearance:		
· Form:	Pasty	
Color:	Different according to coloring	
· Odor:	Odorless	
· Odor threshold:	Not determined.	
· pH-value:	Not determined.	
· Change in condition		
Melting point/Melting range:	undetermined	
 Boiling point/Boiling range: 	undetermined	
· Flash point:	>100 °C (>212 °F)	
· Flammability (solid, gaseous)	Not applicable.	
 Decomposition temperature: 	Not determined.	
· Auto igniting:	Product is not selfigniting.	
· Danger of explosion:	Product does not present an explosion hazard.	
· Explosion limits:		
Lower:	Not determined.	
· Upper:	Not determined.	
· Vapor pressure:	Not determined.	
· Density at 20 °C (68 °F):	1,9 g/cm³ (15,8555 lbs/gal)	
· Relative density	Not determined.	
· Vapor density	Not determined.	



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Solubility in / Miscibility with Water:	h Not miscible or difficult to mix
· Partition coefficient (n-octai	nol/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.
- · 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:

· 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) read-across
- Dermal LD50 >2000 mg/kg (rat) (OECD 402)
- read-across
- 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 >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)
 - Vom SDB von Ferro (27.12.2010) übernommen
- 21245-02-3 2-ethylhexyl 4-(dimethylamino)benzoate
 - Oral LD50 14900 mg/kg (rat)
 - · Primary irritant effect:
 - on the skin: No irritant effect.
 - on the eye: No irritating effect.
 - Sensitization: No sensitizing effects known.
 - Additional toxicological information:
 - The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: When used and handled according to specifications, the product does not have any harmful
 - effects according to our experience and the information provided to us. (Contd. on page 6)



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Carcinogenic categories

IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

• NTP (National Toxicology Program)

None of the ingredients is listed.

· Reproductive toxicity

21245-02-3 2-ethylhexyl 4-(dimethylamino)benzoate

Oral NOAEL (Fruchtbarkeit) 50 mg/kg/d /64 d (rat) (OECD 421)

Toxicity				
Aquatic toxicity:				
41637-38-1 bisphenol 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)			
	,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diy 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)			
68412-38-4 N	langanese antimony titanium buff rutile			
EC50	100 mg/l (daphnia) Vom SDB von Ferro (27.12.2012) übernommen			
Persistence	and degradability			
41637-38-1 b	isphenol A polyethnylene glycol diether dimethacrylate			
biodegradabi	ity 24 % /28d (not defined) (OECD 301D)			
b	,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diy ismethacrylate			
biodegradability 22 % /28d (not defined) (OECD 301B; ISO/ 9439/ EEC 92/69/V, C.4-C)				
Bioaccun Mobility i Additional e General r Results of P PBT: Not	environmental systems: nulative potential No further relevant information available. n soil No further relevant information available. cological information: notes: Avoid transfer into the environment. BT and vPvB assessment applicable. t applicable.			
VEVD. NO	(Contd. on page			



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· Other adverse effects No further relevant information available.

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13 Disposal considerations

· Waste treatment methods

• Recommendation Smaller quantities can be disposed of with household waste.

· Uncleaned packagings:

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

14 Transport information		
UN-Number DOT/TDG, ADR, IMDG, IATA	Void	
UN proper shipping name DOT/TDG, ADR, IMDG, IATA	Void	
 Transport hazard class(es) 		
· DOT/TDG (Transport dangerous g	joods):	
· Class	Void	
· ADR, IMDG, IATA		
· Class	Void	
Packing group DOT/TDG, ADR, IMDG, IATA	Void	
Environmental hazards: Marine pollutant:	No	
 Special precautions for user 	Not applicable.	
 Transport in bulk according to Anne MARPOL73/78 and the IBC Code 	x II of Not applicable.	
· Transport/Additional information:	-	
· UN "Model Regulation":	Void	

15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

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· Sara

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· SARA Section 355 (extremely hazardous substances)

None of the ingredients is listed.

· 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 H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eve irritation.

H335 May cause respiratory irritation.

H360 May damage fertility or the unborn child.

• Date of the latest revision of the safety data sheet 11/16/2022 Abbreviations and acronyms: Abbreviations and actionyms. ICAO: International Civil Aviation Organisation IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Soniac (division of the American Chemical Social CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative * Data compared to the previous version altered.