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

Printing date 28.11.2017

Version number 3

Revision: 28.11.2017

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1.1 Product identifier	
Trade name: VENUS Diamond flow	
1.2 Relevant identified uses of the substance or mixture ar No further relevant information available.	nd uses advised against
· Application of the substance / the mixture Dental filling n	naterial
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 4372
• Informing department: E-Mail: msds@kulzer-dental.com	1ei ++9 (0)000 +312
1.4 Emergency telephone number: Emergency CONTACT (2	24-Hour-Number): +49 (0)6132-84
SECTION 2: Hazards identification	
2.1 Classification of the substance or mixture	
- Classification according to Regulation (EC) No 1272/200	08
Skin Irrit. 2 H315 Causes skin irritation.	
Eye Irrit. 2 H319 Causes serious eye irritation.	
GHS07	
· Signal word Warning	
· Hazard statements	
H315 Causes skin irritation. H319 Causes serious eye irritation.	
Precautionary statements	
P280 Wear protective gloves / eye protection P305+P351+P338 IF IN EYES: Rinse cautiously with contact lenses, if present and easy to	water for several minutes. Rem
P321 Specific treatment (see on this label). P332+P313 If skin irritation occurs: Get medical a	dvice/attention
P337+P313 If eye irritation persists: Get medical a	
P362+P364 Take off contaminated clothing and w	
· Additional information:	llargia reaction
 Additional information: Contains triethylen glycol dimethacrylate. May produce an a 	llergic reaction.
· Additional information:	Illergic reaction.
Additional information: Contains triethylen glycol dimethacrylate. May produce an a 2.3 Other hazards - Results of PBT and vPvB assessment PBT: Not applicable.	Illergic reaction.
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Additional information: Contains triethylen glycol dimethacrylate. May produce an a 2.3 Other hazards - · Results of PBT and vPvB assessment · PBT: Not applicable. · vPvB: Not applicable. SECTION 3: Composition/information on ingredie 3.2 Chemical characterisation: Mixtures	
Additional information: Contains triethylen glycol dimethacrylate. May produce an a 2.3 Other hazards - · Results of PBT and vPvB assessment · PBT: Not applicable. · vPvB: Not applicable.	



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ſ	 Dangerous components: 				
	CAS: 13760-80-0 EINECS: 237-354-2	ytterbium trifluoride Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	10-25%		
	CAS: 109-16-0 EINECS: 203-652-6 Reg.nr.: 01-2119969287-21-0000	triethylen glycol dimethacrylate Skin Sens. 1B, H317	< 1%		

SECTION 4: First aid measures

· 4.1 Description of first aid measures

- General information No special measures required.
- · 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.

- · 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 13 for information on disposal. See Section 8 for information on personal protection equipment.

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. (Contd. on page 3)

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- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:
- Store under dry conditions.
- Store cool (not above 25 °C).

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

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

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.

· DNELs

109-16-0 triethylen glycol dimethacrylate

Dermal worker industr., l.te., syst. 13.9 mg/Kg/d (nd) Inhalative worker industr., l.te., syst. 48.5 mg/m3 (nd)

· PNECs

109-16-0 triethylen glycol dimethacrylate

· · · ·	,, ,
marine water	0.0164 mg/l (nd)
sedim., dw, fre.wat.	1.85 mg/Kg (nd)
marine water sedim., dw, fre.wat. sedim., dw, mar.wat.	0.185 mg/Kg (nd)
soil,dw	0.274 mg/Kg (nd)

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

· 8.2 Exposure controls

Personal protective equipment

- General protective and hygienic measures
- Wash hands during breaks and at the end of the work.
- · Breathing equipment: Not required.
- · 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 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
- · Eye protection: Safety glasses

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· Body protection: Light weight protective clothing

SECTION 9: Physical and chen		
· 9.1 Information on basic physical and	d chemical properties	
· General Information		
· Appearance:		
· Form:	Pasty	
· Colour:	White	
0	Yellowish	
· Smell: · Odour threshold:	Odourless Not determined.	
· pH-value:	Not determined.	
Change in condition		
Melting point/freezing point:	Not determined	
Initial boiling point and boiling	range: Not determined	
· Flash point:	> 100 °C	
 Inflammability (solid, gaseous) 	Not applicable.	
· Ignition temperature:		
 Decomposition temperature: 	Not determined.	
· Self-inflammability:	Product is not selfigniting.	
· Explosive properties:	Product is not explosive.	
 Critical values for explosion: 		
· Lower:	Not determined.	
· Upper:	Not determined.	
· Steam pressure:	Not determined.	
· Density at 20 °C	1,9 g/cm³	
· Relative density	Not determined.	
· Vapour density	Not determined.	
· Evaporation rate	Not determined.	
Solubility in / Miscibility with		
· Water:	Not miscible or difficult to mix	
· Partition coefficient: n-octanol/wa		
· Viscosity:		
dynamic:	Not determined.	
· kinematic:	Not determined.	
• 9.2 Other information	No further relevant information available.	

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.

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• 10.6 Hazardous decomposition products: None • Additional information: -

SECTION 11: Toxicological information

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

- LD/LC50 values that are relevant for classification:
- 56744-60-6 Bisphenol-A-ethoxylat(4)dimethacrylat

Oral LD50 >2000 mg/kg (rat)

41137-60-4 diurethandimethacrylate

Oral LD50 >5000 mg/kg (rat)

109-16-0 triethylen glycol dimethacrylate

Oral LD50 > 5000 mg/kg (rat)

Dermal LD50 > 2000 mg/kg (mouse)

- Primary irritant effect:
 - Skin corrosion/irritation
 - Causes skin irritation.
 - · Serious eye damage/irritation
- Causes serious eye irritation. Respiratory or skin sensitisation
- Based on available data, the classification criteria are not met.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
 - 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.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

109-16-0 triethylen glycol dimethacrylate

EC50/72h > 100 mg/l (algae)

· 12.2 Persistence and degradability No further relevant information available.

- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.

· Additional ecological information:

General notes: Avoid transfer into the environment.

12.5 Results of PBT and vPvB assessment

• **PBT:** Not applicable.

• vPvB: Not applicable.

• 12.6 Other adverse effects No further relevant information available.

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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 information	on	
· 14.1 UN-Number · ADR, ADN, IMDG, IATA	Void	
 14.2 UN proper shipping name ADR, ADN, IMDG, IATA 	Void	
 14.3 Transport hazard class(es) 		
· ADR, ADN, IMDG, IATA · Class	Void	
 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 Transport in bulk according to Anne of Marpol and the IBC Code 	ex II 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

· 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. H335 May cause respiratory irritation. H382 May cause of Dangerous Goods by Road) (Contd. on page 7)



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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
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1B: Skin sensitisation – Category 1B
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
* Data compared to the previous version altered.

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