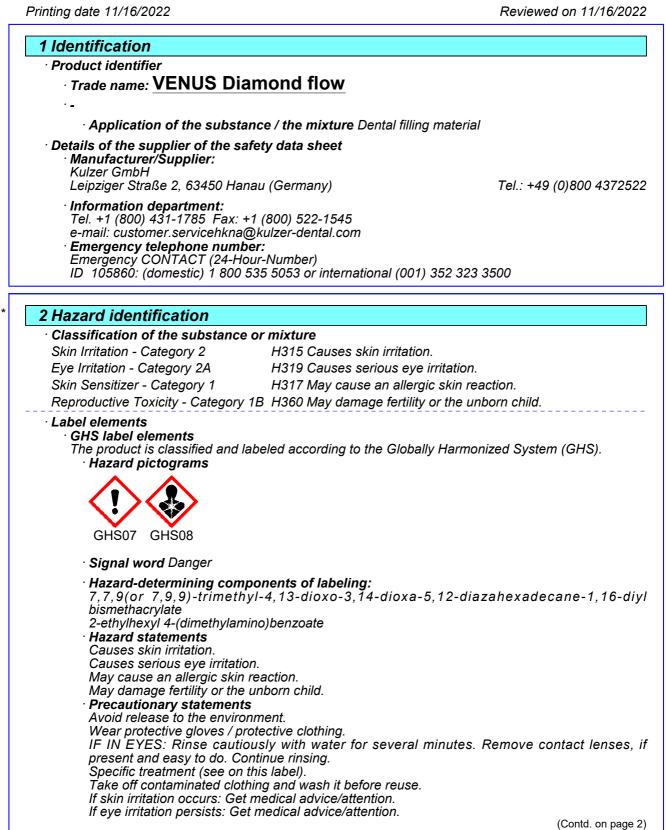


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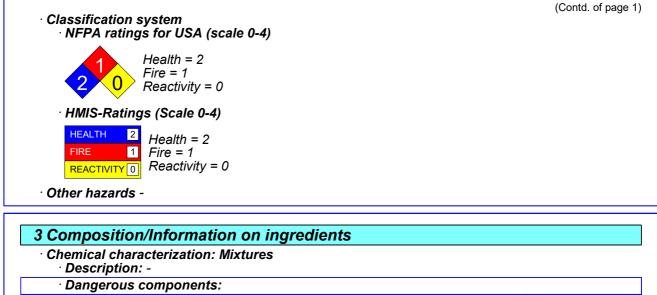
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· Dangerous components:		
	ytterbium trifluoride	<i>≥</i> 10-<20% w/w *
	Skin Irritation - Category 2, H315; Eye Irritation - Category 2A, H319; Specific Target Organ Toxicity - Single Exposure - Category 3, H335	
72869-86-4	7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12- diazahexadecane-1,16-diyl bismethacrylate	10-25% w/w *
	Skin Sensitizer - Category 1B, H317	
21245-02-3	2-ethylhexyl 4-(dimethylamino)benzoate	<i>≥</i> 0,1-<0,2% w/w *
	Reproductive Toxicity - Category 1B, H360	
* Actual o	concentration ranges are withheld as a trade secret.	

4 First-aid measures

[•] Description of first aid measures

- · General information No special measures required.
- 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 13 for disposal information.
- See Section 8 for information on personal protection equipment.

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.
- Keep cool, if possible (not above 25 °C).

· 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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Printing date 11/16/2022 Reviewed on 11/16/2022 Trade name: VENUS Diamond flow (Contd. of page 3) · 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 9 Physical and chemical properties · Information on basic physical and chemical properties General Information Appearance: Form: Pastv · Color: White Yellowish · Odor: Odorless · Odor threshold: Not determined. Not determined. · pH-value: · Change in condition Melting point/Melting range: undetermined Boiling point/Boiling range: undetermined >100 °C (>212 °F) · Flash point: · Flammability (solid, gaseous) Not applicable. · Decomposition temperature: Not determined. Product is not selfigniting. · Auto igniting: · Danger of explosion: Product does not present an explosion hazard. · Explosion limits: Not determined. Lower: · Upper: Not determined. · Vapor pressure: Not determined. 1,9 g/cm³ (15,8555 lbs/gal) · Density at 20 °C (68 °F): · Relative density Not determined. · Vapor density Not determined. (Contd. on page 5)



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Trade name: VENUS Diamond flow

• Evaporation rate	Not determined.	
Solubility in / Miscibility with Water:	n Not miscible or difficult to mix	
· Partition coefficient (n-octanol/water): Not determined.		
Viscosity: dynamic: kinematic:	Not determined. 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	>2.000 mg/kg (rat) (OECD 423)
		read-across
Dermal	LD50	>2.000 mg/kg (rat) (OECD 402)
		read-across
72869-8	36-4 7,	7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl
	bi	smethacrylate
Oral	LD50	>5.000 mg/kg (rat) (OECD 401)
Dermal	LD50	>2.000 mg/kg (rat) (OECD 402)

131-57-7 Oxybenzone

Oral

Oral LD50 >12.800 mg/kg (rat) (OECD 401)

Dermal LD50 >16.000 mg/kg (rabbit) (OECD 402)

109-16-0 triethylen glycol dimethacrylateOralLD508.300 mg/kg (rat)

LD50 8.300 mg/kg (rat) weight of evidence

Dermal LD50 >2.000 mg/kg (mouse)

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

LD50 14.900 mg/kg (rat)

Primary irritant effect:

on the skin: No irritant effect.

• on the eye: No irritating effect.

• Sensitization: No sensitizing effects known.

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· 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.

· Carcinogenic categories

·IARC	(International Agend	cy for Research on Cancer)	
	(

7631-86-9 silicon dioxide, chemically prepared

128-37-0 2,6-di-tert-butyl-p-cresol

• 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)

12 Ecological information

· Toxicity

· Aquatic t	oxicity:		
41637-38-1 k	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)		
72869-86-4 7	,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl		
	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)		
NOEC / 72h	0,21 mg/l (algae) (OECD 201)		
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)		
109-16-0 trie	109-16-0 triethylen 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)		
	(Contd. on page 7		



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Trade name: VENUS Diamond flow

NOEC / 72h 18,6 mg/l (algae) (OECD 201)

EbC50 / 72h 72,8 mg/l (algae) (OECD 201)

· Persistence and degradability

41637-38-1 bisphenol A polyethnylene glycol diether dimethacrylate

biodegradability 24 % /28d (not defined) (OECD 301D)

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

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

131-57-7 Oxybenzone

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

109-16-0 triethylen glycol dimethacrylate

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

· Behavior in environmental systems:

Bioaccumulative potential

131-57-7 Oxybenzone

Biokonzentrationefaktor (BCF) >33-<160 (fish) (OECD 305)

- Mobility in soil No further relevant information available.
- Additional ecological information:
- General notes: Avoid transfer into the environment.
- · Results of PBT and vPvB assessment
 - **PBT:** Not applicable.
 - vPvB: Not applicable.

• Other adverse effects No further relevant information available.

13 Disposal considerations

- · 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.

Void	
Void	
Void	
Void	
	Void Void



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		(Contd. of page 7)
• Environmental hazards: • Marine pollutant:	No	
· Special precautions for user	Not applicable.	
 Transport in bulk according to Annex MARPOL73/78 and the IBC Code 	Il 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.

· Sara

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 eye 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:

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 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.