

Page 1/8

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

Printing date 16.11.2022

Version number 4 (replaces version 3)

Revision: 16.11.2022

 1.1 Product identifier Trade name: Venus Bulk Fill 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 43722 Informing department: E-Mail: msds@kulzer-dental.com 1.4 Emergency telephone number: Emergency CONTACT (24-Hour-Number): +49 (0)6132-8440 SECTION 2: Hazards identification 2.1 Classification of the substance or mixture Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 Skin Irit. 2 H315 Causes serious eye irritation. Eye Irrit. 2 H315 Causes serious eye irritation. Eye Irrit. 2 H315 Causes serious eye irritation. Skin Sens. 1 H317 May cause an allergic skin reaction. 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 GB CLP regulation. Hazard pictograms GHS07 Signal word Warning Hazard-determining components of labelling: 7.7.9 (or 7.9.9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-cobismethacrylate triethylen glycol dimethacrylate Hazard statements H315 Causes skin irritation. H315 Causes serious eye irritation. H316 Causes serious eye irritation. H317 Gauses seri	A A Due due 4 tale	tifier	
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Page 2/8

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

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Revision: 16.11.2022

(Contd. of page 1)

Trade name: Venus Bulk Fill

· Results of PBT and vPvB assessment

· PBT: Not applicable.

vPvB: Not applicable.

3.2 Mixtures Description: -		
 Dangerous components: 		
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-xxx	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	<i>≥</i> 10-<25%
CAS: 131-57-7 EINECS: 205-031-5	Oxybenzone Aquatic Acute 1, H400; Aquatic Chronic 2, H411	<i>≥</i> 0.25-<1%
CAS: 21245-02-3 EINECS: 244-289-3 Reg.nr.: 01-2120766649-35- XXXX	2-ethylhexyl 4-(dimethylamino)benzoate Repr. 1B, H360	<0.3%

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.

(Contd. on page 3)



Page 3/8

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

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Version number 4 (replaces version 3)

Revision: 16.11.2022

(Contd. of page 2)

Trade name: Venus Bulk Fill

· 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.
 - 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. Not required.

DNELS

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)
· PN	ECs		
72869-86-	4 7,7,9(or 7,9,9)-trimet bismethacrylate	hyl-4,13-dioxo	o-3,14-dioxa-5,12-diazahexadecane-1,16-diy
freshwate	r	0.01 mg/l (not	defined)
	marine water		t defined)
marine wa			
	eatment plant	3.61 mg/l (not	defined)
sewage tr			,

(Contd. on page 4)



Page 4/8

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Trade name: Venus Bulk Fill (Contd. of page 3) soil, dry weight 0.91 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 Wash hands during breaks and at the end of the work. · Breathing equipment: Not required. · Hand protection 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/face protection Safety glasses · Body protection: Light weight protective clothing SECTION 9: Physical and chemical properties · 9.1 Information on basic physical and chemical properties General Information · Physical state Fluid · Colour: White Yellowish · Smell Odourless Odour threshold: Not determined. • Melting point/freezing point: Not determined · Boiling point or initial boiling point and boiling range Not determined Not applicable. · Flammability

- · Lower and upper explosion limit Lower:
- · Upper: · Flash point:
- · Decomposition temperature:

SADT

- · pH

100 °C (72869-86-4 7,7,9(or 7,9,9)-trimethyl-

4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-

Not determined.

Not determined.

Not determined.

Not determined.

1,16-diyl bismethacrylate)

(Contd. on page 5) GB



Page 5/8

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

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		(Contd. of page 4
· 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/cm ³	
· Relative density	Not determined.	
· Vapour density	Not determined.	
· ·		
• 9.2 Other information No fu	urther relevant information available	Э.
· 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	
[.] Gases under pressure	Void	
Flammable liquids	Void	
• Flammable solids	Void	
Self-reactive substances and mixtures	Void	
 Pyrophoric liquids 	Void	
Pyrophoric solids	Void	
• 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	

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

(Contd. on page 6) ĠВ



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

Printing date 16.11.2022

Version number 4 (replaces version 3)

Revision: 16.11.2022

Trade name: Venus Bulk Fill

· Additional information: -

(Contd. of page 5)

Page 6/8

050	
	TION 11: Toxicological information
11.1 I	nformation on hazard classes as defined in Regulation (EC) No 1272/2008
	ute 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)
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)
Derma	al LD50 >2000 mg/kg (rat) (OECD 402)
21245	-02-3 2-ethylhexyl 4-(dimethylamino)benzoate
Oral	LD50 14900 mg/kg (rat)
· Sk	in corrosion/irritation
	uses skin irritation.
	rious eye damage/irritation
	uses serious eye irritation.
	spiratory or skin sensitisation y cause an allergic skin reaction.
· Ge	rm cell mutagenicity Based on available data, the classification criteria are not met.
·Ca	rcinogenicity Based on available data, the classification criteria are not met.
	productive toxicity
21245	-02-3 2-ethylhexyl 4-(dimethylamino)benzoate
Oral	NOAEL (Fertility) 50 mg/kg/d /64 d (rat) (OECD 421)
·ST	OT-single exposure Based on available data, the classification criteria are not met.
	OT-repeated exposure Based on available data, the classification criteria are not met.
	piration hazard Based on available data, the classification criteria are not met.
	nformation on other hazards
	docrine disrupting properties
Mone	of the ingredients is listed

None of the ingredients is listed.

[.] 12.1 Toxicity	
· Aquatic t	oxicity:
72869-86-4 7 b	,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)
12.2 Persiste	nce and degradability
	,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diy ismethacrylate
Biodegradatio	on 22 % /28d (not defined) (OECD 301B; ISO/ 9439/ EEC 92/69/V, C.4-C)
	(Contd. on page



Page 7/8

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

Version number 4 (replaces version 3)

Revision: 16.11.2022

Trade name: Venus Bulk Fill

Printing date 16.11.2022

(Contd. of page 6)

- · 12.3 Bioaccumulative potential No further relevant information available.
- · 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
 - Additional ecological information:
 - General notes: Avoid transfer into the environment.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods Recommendation Smaller quantities can be disposed with household garbage.

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

SECTION 14: Transport information · 14.1 UN number or ID 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, IMĎĞ, IAŤA Void · 14.5 Environmental hazards: Marine pollutant: No · 14.6 Special precautions for user Not applicable. · 14.7 Maritime transport in bulk according to IMO instruments Not applicable. · Transport/Additional information: Void · UN "Model Regulation":

SECTION 15: Regulatory information

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

No further relevant information available.

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

(Contd. on page 8)



Page 8/8

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

Printing date 16.11.2022

Version number 4 (replaces version 3)

Revision: 16.11.2022

Trade name: Venus Bulk Fill

(Contd. of page 7)

SECTION 1	6: Other information
These data ar	e based on our present knowledge. However, they shall not constitute a guarantee f
	roduct features and shall not establish a legally valid contractual relationship.
	nt phrases
H315	Ćauses 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.
H411	Toxic to aquatic life with long lasting effects.
	4 Contains isocyanates. May produce an allergic reaction.
	ions and acronyms:
SADT ⁻ Self A	ccelerating Decomposition Temperature
	d relatif au transport international des marchandises dangereuses par route (European Agreeme
Concerning tl	ne International Carriage of Dangerous Goods by Road)
	ational Maritime Code for Dangerous Goods
	tional Air Transport Association
	y Harmonised System of Classification and Labelling of Chemicals opean Inventory of Existing Commercial Chemical Substances
	opean List of Notified Chemical Substances
	al Abstracts Service (division of the American Chemical Society)
	nd No-Effect Level (UK REACH)
	sted No-Effect Concentration (UK REACH)
	concentration, 50 percent
	dose, 50 percent ent, Bioaccumulative and Toxic
	ersistent and very Bioaccumulative
	kin corrosion/irritation – Category 2
Eye Irrit. 2: S	erious eye damage/eye irritation – Category 2
	Skin sensitisation – Category 1
SKIN SENS. 11 Penr. 18: Po	3: Skin sensitisation – Category 1B productive toxicity – Category 1B
STOT SE 3	Specific target organ toxicity (single exposure) – Category 3
	e 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chro	nic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
	nic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
· * Data con	npared to the previous version altered.