

Page 1/10

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

Printing date 16.11.2022

Version number 3

Revision: 16.11.2022

SECTION 1: Identification of the substance/mixture undertaking	e and of the compa
· 1.1 Product identifier	
· Trade name: Venus	
• 1.2 Relevant identified uses of the substance or mixture and uses No further relevant information available.	advised against
· 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 4372
 Informing department: E-Mail: msds@kulzer-dental.com 1.4 Emergency telephone number: Emergency CONTACT (24-Hour- 	-Number): +49 (0)6132-844
SECTION 2: Hazards identification	
2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008	
Skin Sens. 1 H317 May cause an allergic skin reaction.	
GHS07	
· Signal word Warning	
 Hazard-determining components of labelling: triethylen glycol dimethacrylate Hazard statements H317 May cause an allergic skin reaction. Precautionary statements P280 Wear protective gloves / eye protection. P280 Wear protective clothing. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P333+P313 If skin irritation or rash occurs: Get medical advice/a P363 Wash contaminated clothing before reuse. 	attention.
• 2.3 Other hazards - • Results of PBT and vPvB assessment • PBT: Not applicable. • vPvB: Not applicable.	
• 2.3 Other hazards - • Results of PBT and vPvB assessment • PBT: Not applicable. • vPvB: Not applicable.	
• 2.3 Other hazards - Results of PBT and vPvB assessment • PBT: Not applicable.	

(Contd. on page 2) GB



Page 2/10

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

Printing date 16.11.2022

Version number 3

Revision: 16.11.2022

Trade name: Venus

· Dangerous components			
CAS: 109-16-0	triethylen glycol dimethacrylate	<i>≥</i> 5- <i>≤</i> 10%	
EINECS: 203-652-6 Reg.nr.: 01-2119969287-21-	Skin Sens. 1B, H317 -xxxx		
CAS: 79-41-4	methacrylic acid	<1%	
EINECS: 201-204-4	Acute Tox. 3, H311		
	Skin Corr. 1A, H314; Eye Dam. 1, H318 Acute Tox. 4, H302; Acute Tox. 4, H332; STOT SE 3,		
	H335		
	ATE: LD50 oral: 1,320 mg/kg		
	LD50 dermal: 500 mg/kg		
	LC50/4 h inhalative: 11 mg/l		
	Specific concentration limit: STOT SE 3; H335: C \geq 1 %		
CAS: 131-57-7	Oxybenzone	<0.25%	
EINECS: 205-031-5	Aquatic Acute 1, H400; Aquatic Chronic 2, H411		

SECTION 4: First aid measures

• 4.1 Description of first aid measures

- General information No special measures required.
- After skin contact
- Instantly wash with water and soap and rinse thoroughly.
- If skin irritation or rash occurs: Get medical advice/attention.
- After eye contact
- Rinse opened eye for several minutes under running water. Then consult doctor.
- 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 -



6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.

(Contd. on page 3)



Page 3/10

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

Printing date 16.11.2022

Version number 3

Revision: 16.11.2022

Trade name: Venus

· 6.2 Environmental precautions:

Do not allow product to reach sewage system or water bodies.

Do not allow to enter the ground/soil.

· 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (diatomite, universal binders, for small amounts tissues).

· 6.4 Reference to other sections

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 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				
109-16-0 t	triethylen glycol dimethacrylate			
Oral	general population, long term, systemic	8.33 mg/Kg (not defined)		
Dermal	worker industrial, long term, systemic	13.9 mg/Kg/d (not defined)		
	general population, long term, systemic	8.33 mg/Kg/d (not defined)		
Inhalative	worker industrial, long term, systemic	48.5 mg/m3 (not defined)		
	general population, long term, systemic	14.5 mg/m3 (not defined)		
79-41-4 m	ethacrylic acid	·		
Dermal	worker industrial, long term, systemic	4.25 mg/Kg/d (not defined)		
	general population, long term, systemic	2.55 mg/Kg/d (not defined)		
Inhalative	worker industrial, long term, local	88 mg/m3 (not defined)		
	worker professional, long term, systemic	29.6 mg/m3 (not defined)		
	general population, long term, systemic	6.3 mg/m3 (not defined)		
	general population, long term, local	6.55 mg/m3 (not defined)		
131-57-7 (Oxybenzone			
Oral	general population, long term, systemic	2 mg/Kg (not defined)		
Dermal	worker industrial, long term, systemic	39 mg/Kg/d (not defined)		
	general population, long term, systemic	20 mg/Kg/d (not defined)		
Inhalative	worker industrial, long term, systemic	27.7 mg/m3 (not defined)		
		(Contd. c	n page	

(Contd. of page 2)

GB

See Section 13 for information on disposal.



Page 4/10

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

Printing date 16.11.2022

Version number 3

Revision: 16.11.2022

Trade name: Venus

· PNECs	term, systemic 6.8 mg/m3 (not defined)	
109-16-0 triethylen glycol dimeth		
freshwater	0.016 mg/l (not defined)	
marine water	0.002 mg/l (not defined)	
sewage treatment plant	1.7 mg/l (not defined)	
sediment, dry weight, freshwater	0.185 mg/Kg (not defined)	
sediment, dry weight, marine water	· · · · · · · · · · · · · · · · · ·	
soil, dry weight	0.027 mg/Kg (not defined)	
79-41-4 methacrylic acid		
freshwater	0.82 mg/l (not defined)	
marine water	0.82 mg/l (not defined)	
sewage treatment plant	10 mg/l (not defined)	
soil, dry weight	1.2 mg/Kg (not defined)	
131-57-7 Oxybenzone		
freshwater	0.00067 mg/l (not defined)	
marine water	0.000067 mg/l (not defined)	
sewage treatment plant	10 mg/l (not defined)	
sediment, dry weight, freshwater	0.066 mg/Kg (not defined)	
sediment, dry weight, marine water	0.007 mg/Kg (not defined)	
soil, dry weight	0.013 mg/Kg (not defined)	
· Additional information: The	lists that were valid during the compilation were used as basis	
 General protective and hyg Wash hands during breaks a Breathing equipment: Not r Hand protection Check protective gloves prior recommended 	s, such as personal protective equipment ienic measures	
 Material of gloves The selection of the suit 	nd varies from manufacturer to manufacturer. As the product is	

(Contd. on page 5)



Page 5/10

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

Printing date 16.11.2022

Version number 3

Revision: 16.11.2022

(Contd. of page 4)

Trade name: Venus

9.1 Information on basic physical and chemica	l properties	
General Information		
· Physical state	Fluid	
· Colour:	Different according to colour	
· Smell:	Odourless	
· Odour threshold:	Not determined.	
 Melting point/freezing point: 	Not determined	
• Boiling point or initial boiling point and		
boiling range	Not determined	
· Flammability	Not applicable.	
· Lower and upper explosion limit		
Lower:	Not determined.	
· Upper:	Not determined.	
· Flash point:	>150 °C (109-16-0 triethylen gly	
	dimethacrylate)	
· Decomposition temperature:	Not determined.	
SADT		
· SAD1 · pH	Not determined.	
· pn · Viscosity:		
· Viscosity: · Kinematic viscosity	Not determined.	
	Not determined.	
dynamic:		
· Solubility	Net wie einte en diffiendt te wein	
· 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	Not determined	
Relative density	Not determined.	
· Vapour density	Not determined.	
9.2 Other information No 1	further relevant information available.	
· 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.	
· Solvent content:		
· VOC EU	g/l	
Change in condition	9/1	
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	



Page 6/10

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

Printing date 16.11.2022

Version number 3

Revision: 16.11.2022

Trade name: Venus

		(Contd. of page
· 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	
 Desensitised explosives 	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

Additional information:

If stored longer than recommended and/or above recommended temperature, product may polymerize generating heat.

		n hazard classes as defined in Regulation (EC) No 1272/2008 ased on available data, the classification criteria are not met.
		es that are relevant for classification:
65997-18	-4 frits, ch	emicals
Oral	LD50	>2,000 mg/kg (rat) (OECD 423)
Dermal	LD50	>2,000 mg/kg (rat) (OECD 402)
1565-94-2	2 (1-meth bismetha	ylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl) crylate
Oral	LD50	>5,000 mg/kg (rat)
109-16-0	triethylen	glycol dimethacrylate
Oral	LD50	8,300 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (mouse)
Pyrogeni	c silica, si	lanized
Oral	LD50	10,000 mg/kg (rat)
2530-85-0	3-trimeth	oxysilylpropyl methacrylate
Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)
79-41-4 n	hethacrylic	acid
Oral	LD50	1,320 mg/kg (rat) (OECD 401)
	LD50	500-1,000 mg/kg (rabbit)
Dermal		



Page 7/10

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

Printing date 16.11.2022

Version number 3

Revision: 16.11.2022

Trade name: Venus

		(Contd. of page 6
131-57-7	Oxybenz	zone
Oral	LD50	>12,800 mg/kg (rat) (OECD 401)
Dermal	LD50	>16,000 mg/kg (rabbit) (OECD 402)
Seriou Respi May c Germ Carcii Repro STOT STOT Aspira 11.2 Info	us eye da ratory or ause an a cell muta nogenicit ductive a -single e. -repeated ation haz rmation o	Averify the classification criteria are not met. The mage/irritation Based on available data, the classification criteria are not met. Skin sensitisation Allergic skin reaction. Agenicity Based on available data, the classification criteria are not met. The pased on available data, the classification criteria are not met. Toxicity Based on available data, the classification criteria are not met. Toxicity Based on available data, the classification criteria are not met. Toxicity Based on available data, the classification criteria are not met. Toxicity Based on available data, the classification criteria are not met. Toxicity Based on available data, the classification criteria are not met. Toxicity Based on available data, the classification criteria are not met. Toxicity Based on available data, the classification criteria are not met. Toxicity Based on available data, the classification criteria are not met. Toxicity Based on available data, the classification criteria are not met. Toxicity Based on available data, the classification criteria are not met. Toxicity Based on available data, the classification criteria are not met. Toxicity Based on available data, the classification criteria are not met. Toxicity Based on available data, the classification criteria are not met. Toxicity Based on available data, the classification criteria are not met. Toxicity Based on available data, the classification criteria are not met. Toxicity Based on available data, the classification criteria are not met. Toxicity Based on available data, the classification criteria are not met. Toxicity Based on available data, the classification criteria are not met. Toxicity Based on available data, the classification criteria are not met. Toxicity Based on available data, the classification criteria are not met. Toxicity Based on available data, the classification criteria are not met. Toxicity Based on available data, the classification criteria are not met. Toxicity Based on available data, the classi
· Endo	crine disi	rupting properties
None of t	he ingred	ients is listed.

None of the ingredients is listed.

SECTION 12.1 Toxicity	12: Ecological information
· Aquatic t	
65997-17-3 G	
	•
LC50/96h	>1,000 mg/l (fish)
ErC50 / 72 h	>1,000 mg/l (algae)
NOEC / 72h	1,000 mg/l (algae)
	1,000 mg/l (daphnia)
65997-18-4 f	rits, chemicals
LC50/96h	≥3.09 mg/l (fish)
ErC50 / 72 h	≥2.4 mg/l (algae)
1565-94-2 (1 bi	-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl) smethacrylate
LC50/96h	>100 mg/l (fish) (OECD 203)
109-16-0 trie	thylen 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)
NOEC / 72h	18.6 mg/l (algae) (OECD 201)
EbC50 / 72h	72.8 mg/l (algae) (OECD 201)
2530-85-0 3-1	trimethoxysilylpropyl methacrylate
EC50/48h	>100 mg/l (daphnia) (EU C2.)
LC50/96h	>100 mg/l (fish) (EU C.1)
79-41-4 meth	
EC50/48h	>130 mg/l (daphnia) (EPA OTS 797.1300)
LC50/96h	85 mg/l (fish) (EPA OTS 797.1400)



Page 8/10

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

Printing date 16.11.2022

Version number 3

Revision: 16.11.2022

Trade name: Venus

		(Contd. of page 7)
		53 mg/l (daphnia)
		45 mg/l (algae) (OECD 201)
		8.2 mg/l (algae) (OECD 201)
		12 mg/l (fish) (EPA OTS 797.1400)
		130 mg/l (daphnia) (EPA OTS 797.1300)
	NOEC/ 35d	
	LC50/ 35d	42 mg/L (fish) (OECD 210)
	131-57-7 Oxy	
		1.87 mg/l (daphnia) (OECD 202)
	LC50/96h	3.8 mg/l (fish) (OECD 203)
		0.67 mg/l (algae) (OECD 201)
		0.18 mg/l (algae) (OECD 201)
		0.72 mg/l (fish) (OECD 203)
		1.15 mg/l (daphnia) (OECD 202)
		ence and degradability
		-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] smethacrylate
	Biodegradatio	on 21 % /28d (not defined) (OECD 301F; ISO 9408/ EEC 92/69/V, C.4-D)
		thylen glycol dimethacrylate
	Biodegradatio	on 85 % /28d (not defined) (OECD 301B; ISO/ 9439/ EEC 92/69/V, C.4-C)
		trimethoxysilylpropyl methacrylate
		on 69 % /28d (not defined) (OECD 301F; ISO 9408/ EEC 92/69/V, C.4-D)
		hacrylic acid
	-	on 86 % /28d (not defined) (OECD 301D)
	131-57-7 Oxy	
	Biodegradatio	on 60-70 % /28d (not defined)
•	12.3 Віоасси	imulative potential
	131-57-7 Oxy	ybenzone
		tion factor (BCF) >33-<160 (fish) (OECD 305)
	12.5 Results PBT: Not vPvB: No 12.6 Endocri For informatio	r in soil No further relevant information available. of PBT and vPvB assessment applicable. t applicable. ine disrupting properties on on endocrine disrupting properties see section 11. dverse effects No further relevant information available.
		13: Disposal considerations
•	13.1 Waste t Recomm	reatment methods
		be disposed of together with household garbage. Do not allow product to reach sewage

system. Disposal must be made according to official regulations.

(Contd. on page 9) GB



Page 9/10

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

Printing date 16.11.2022

Version number 3

Revision: 16.11.2022

(Contd. of page 8)

Trade name: Venus

· Uncleaned packagings:

· Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport informa	tion	
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, IMDG, IATA	Void	
14.5 Environmental hazards: Marine pollutant:	No	
14.6 Special precautions for user	Not applicable.	
<i>14.7 Maritime transport in bulk accordi</i> IMO instruments	ing to 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.

· 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

H302 Harmful if swallowed.

- H311 Toxic in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H400 Very toxic to aquatic life.
- H411 Toxic to aquatic life with long lasting effects.
- Abbreviations and acronyms:

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

(Contd. on page 10)

ĠВ



Page 10/10

GB

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

Printing date 16.11.2022

Version number 3

Revision: 16.11.2022

Trade name: Venus

(Contd. of page 9) 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) VOCV: Lenkungsabgabe auf flüchtigen organischen Verbindungen, Schweiz (Swiss Ordinance on volatile organic compounds) DNEL: Derived No-Effect Level (UK REACH) PNEC: Predicted No-Effect Concentration (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity – Category 4 Acute Tox. 3: Acute toxicity – Category 1 Skin Corr. 1A: Skin corrosion/irritation – Category 1 Skin Sens. 1: Skin sensitisation – Category 1 Aquatic Acute 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2 * * Data compared to the previous version altered.