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

Printing date 16.11.2022

Version number 3

Revision: 16.11.2022

	entifier		
· Trade name	. Charisma flo	W	
	entified uses of the	e substance or mixture an	d uses advised against
<ul> <li>Application</li> </ul>	of the substance /	<sup>/</sup> the mixture Dental filling m	naterial
<ul> <li>Manufacture Kulzer Gmbł</li> </ul>			Tel.: +49 (0)800 4372
Informing d	epartment: E-Mail:	msds@kulzer-dental.com	94-Hour-Number): +49 (0)6132-844
SECTION 2:	Hazards identif	fication	
<sup>.</sup> Classificatio	-	ce or mixture egulation (EC) No 1272/200 an allergic skin reaction.	08
	ictograms	belled according to the GB C	
	ord Warning		
Hazard-o triethylen methyl me Hazard s H317 Ma Precautio P280 P280 P302+P3 P303+P3 P363 2.3 Other hazar	letermining compo glycol dimethacryla ethacrylate tatements y cause an allergic s onary statements Wear protective Wear protective 52 IF ON SKIN: Wa 13 If skin irritation of Wash contamina	skin reaction. gloves / eye protection. clothing. ash with plenty of soap and v or rash occurs: Get medical a ated clothing before reuse.	

• 3.2 Mixtures • Description: Product based on methacrylates

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<ul> <li>Dangerous components:</li> </ul>		
CAS: 109-16-0 EINECS: 203-652-6 Reg.nr.: 01-2119969287-21-xxxx	triethylen glycol dimethacrylate Skin Sens. 1B, H317	<i>≥</i> 10- <i>≤</i> 25%
CAS: 41637-38-1 EC number: 609-946-4	bisphenol a polyethylene glycol diether dimethacrylate Aquatic Chronic 4, H413	<i>≥</i> 0- <i>≤</i> 5%
CAS: 131-57-7 EINECS: 205-031-5	Oxybenzone Aquatic Acute 1, H400; Aquatic Chronic 2, H411	<i>≥</i> 0.25-<1%
CAS: 80-62-6 EINECS: 201-297-1	methyl methacrylate Flam. Lig. 2, H225 Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	<i>≥</i> 0.1-<1%

### SECTION 4: First aid measures

### · 4.1 Description of first aid measures

- General information Instantly remove any clothing soiled by the product.
- After skin contact
- Instantly wash with water and soap and rinse thoroughly.
- If skin irritation continues, consult a doctor.
- · 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

#### <sup>•</sup> 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

- Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions:
- Do not allow product to reach sewage system or water bodies.
- Do not allow to enter the ground/soil.

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- 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 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

Wear protective equipment. Keep unprotected persons away. Please observe the additional instructions in the product's instructions for use.

· 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.

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Oral	riethylen glycol dimethacrylate general population, long term, systemic	8 33 ma/Ka (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)	
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)	
	general population, long term, systemic	6.8 mg/m3 (not defined)	
80-62-6 m	ethyl methacrylate		
Oral	general population, long term, systemic	8.2 mg/Kg (not defined)	
Dermal	worker industrial, long term, systemic	13.67 mg/Kg/d (not defined)	
	general population, long term, systemic	8.2 mg/Kg/d (not defined)	
Inhalative	worker industrial, acute, local	416 mg/m3 (not defined)	
	worker industrial, long term, systemic	348.4 mg/m3 (not defined)	
	worker industrial, long term, local	208 mg/m3 (not defined)	

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general population, acute	te, local 208 mg/m3 (not defined) (Contd. of pag		
	term, systemic 74.3 mg/m3 (not defined)		
· PNECs			
109-16-0 triethylen glycol dimetha	norvlato		
freshwater	0.016 mg/l (not defined)		
marine water 0.002 mg/l (not defined)			
sewage treatment plant 0.002 mg/l (not defined)			
sewage i earnen plant sediment, dry weight, freshwater	0.185 mg/Kg (not defined)		
sediment, dry weight, mesnwaler sediment, dry weight, marine water	,		
	0.027 mg/Kg (not defined)		
soil, dry weight			
131-57-7 Oxybenzone freshwater	0.00067 mg/l (not defined)		
	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			
soil, dry weight	0.013 mg/Kg (not defined)		
80-62-6 methyl methacrylate	0.04 mm (l/mot dofined)		
freshwater	0.94 mg/l (not defined)		
marine water	0.094 mg/l (not defined)		
sewage treatment plant	10 mg/l (not defined)		
sediment, dry weight, freshwater	10.2 mg/Kg (not defined)		
sediment, dry weight, marine water			
soil, dry weight	1.48 mg/Kg (not defined) e lists that were valid during the compilation were used as basis		
• General protective and hyg Keep away from foodstuffs, b Instantly remove any soiled a Wash hands during breaks a	es, such as personal protective equipment gienic measures beverages and food. and impregnated garments. and at the end of the work.		
Hand protection	and skin. necessary if room is well-ventilated. he impermeable and resistant to the product/ the substance/		
preparation.	ial on consideration of the penetration times, rates of diffusion a		
	r to each use for their proper condition.		
	table gloves does not only depend on the material, but also		



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#### Printing date 16.11.2022 Version number 3 Revision: 16.11.2022 Trade name: Charisma flow (Contd. of page 4) · 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: Different according to colour · Smell: Characteristic 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. >150 °C (109-16-0 triethylen glycol · Flash point: dimethacrylate) · Decomposition temperature: Not determined. SADT pН Not determined. Viscosity: Kinematic viscosity Not determined. Not determined. · dynamic: Solubility Water: Not miscible or difficult to mix · Partition coefficient n-octanol/water (log Not determined. value) Steam pressure: Not determined. Density and/or relative density · Density at 20 °C 1.8 g/cm3 Relative density Not determined. · Vapour density Not determined. · 9.2 Other information No further relevant information available. · Appearance: Form: Pastv · 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.

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Information with regard to physical hazard		
classes		
· Explosives	Void	
· Flammable gases	Void	
Aerosols	Void	
· Oxidising gases	Void	
<sup>.</sup> Gases under pressure	Void	
· Flammable liquids	Void	
· Flammable solids	Void	
<ul> <li>Self-reactive substances and mixtures</li> </ul>	Void	
· Pyrophoric liquids	Void	
Pyrophoric solids	Void	
Self-heating substances and mixtures	Void	
<ul> <li>Substances and mixtures, which emit</li> </ul>		
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.

11.1 Infor Acute	mation on toxicity Ba	hazard classes as defined in Regulation (EC) No 1272/2008 ased on available data, the classification criteria are not met.
· LD/	LC50 valu	es that are relevant for classification:
109-16-0	triethylen	glycol dimethacrylate
Oral	LD50	8,300 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (mouse)
131-57-7	Oxybenzo	ne
Oral	LD50	>12,800 mg/kg (rat) (OECD 401)
Dermal	LD50	>16,000 mg/kg (rabbit) (OECD 402)
80-62-6 m	ethyl met	hacrylate
Oral	LD50	~7,900 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (guinea pig) (OECD 402)
Inhalative		29.8 mg/l (rat)



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- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation Guinea-Pig Maximisation Test (OECD 406): negative 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.
- · 11.2 Information on other hazards

### · Endocrine disrupting properties

None of the ingredients is listed.

### **SECTION 12: Ecological information**

· Aquatic t	, oxicity:	
65997-17-3 0	•	
EC50/72h	>1,000 mg/l (daphnia)	
	>1,000 mg/l (fish)	
	>1,000 mg/l (algae)	
	1,000 mg/l (algae)	
	1,000 mg/l (daphnia)	
109-16-0 trie	thylen glycol dimethacrylate	
EC50/21d	51.9 mg/L (daphnia) (OECD 211)	
	16.4 mg/l (fish) (OECD 203)	
	32 mg/l (daphnia) (OECD 211)	
	>100 mg/l (algae) (OECD 201)	
	18.6 mg/l (algae) (OECD 201)	
EbC50 / 72h	72.8 mg/l (algae) (OECD 201)	
131-57-7 Oxy	/benzone	
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)	
80-62-6 meth	yl methacrylate	
EC50/21d	49 mg/L (daphnia) (OECD 211)	
EC50/48h	69 mg/l (daphnia) (EPA OTS 797.1300)	
	37 mg/l (daphnia) (OECD 211)	
	>110 mg/l (algae) (OECD 201)	
	110 mg/l (algae) (OECD 201)	
	48 mg/l (daphnia) (EPA OTS 797.1300)	
EbC50 / 72h	>110 mg/l (algae) (OECD 201)	
NOEC/ 35d	9.4 mg/L (fish) (OECD 210)	(Contd. on page

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LC50/ 35d 33.7 mg/L (fish) (OECD 210)

12.2 Persistence and degradability

109-16-0 triethylen glycol dimethacrylate

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

131-57-7 Oxybenzone

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

80-62-6 methyl methacrylate

Biodegradation 94 % /14d (not defined) (OECD 301C)

· 12.3 Bioaccumulative potential

131-57-7 Oxybenzone

Bloconcentration factor (BCF) >33-<160 (fish) (OECD 305)

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

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Disposal must be made according to official regulations.

· Uncleaned packagings:

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

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	



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Not applicable.

Not applicable.

Void

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14.6 Special precautions for user

· 14.7 Maritime transport in bulk according to

IMO instruments

· Transport/Additional information:

• 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.

### 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** 

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

- H335 May cause respiratory irritation.
- H400 Very toxic to aquatic life.
- H411 Toxic to aquatic life with long lasting effects.
- H413 May cause long lasting harmful effects to aquatic life.

Abbreviations and acronyms: 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 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 (UK REACH) PNEC: Predicted No-Effect Concentration (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent DBT: Persistent Biosocurulative and Taxin PBT: Persistent, Bioaccumulative and Toxic VPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids – Category 2 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Skin Sens. 1: Skin sensitisation – Category 1 Skin Sens. 1B: Skin sensitisation – Category 1B STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2 Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4

\* Data compared to the previous version altered.

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