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

Printing date 16.11.2022

Version number 3

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	entifier		
· Trade name	. Charisma flo	W	
	entified uses of the	e substance or mixture an	d uses advised against
 Application 	of the substance /	[/] the mixture Dental filling m	naterial
 Manufacture Kulzer Gmbł 			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	
[.] 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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 Dangerous components: 		
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

[•] 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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			I	כ	٨	1	F	L	S	

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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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	
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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