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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

	tifier	
 Trade name: V 	Charisma Opal flow	
1.2 Relevant iden	ntified uses of the substance or mixt tinformation available.	ture and uses advised against
· Application of	f the substance / the mixture Dental a	filling material
 Manufacturer/ Kulzer GmbH 	e supplier of the safety data sheet / Supplier: 3e 2, 63450 Hanau (Germany)	Tel.: +49 (0)800 43725
· Informing dep	partment: E-Mail: msds@kulzer-dental	
	azards identification	
	n of the substance or mixture according to Regulation (EC) No 12	272/2008
Skin Irrit. 2	H315 Causes skin irritation.	., 2,2000
Eye Irrit. 2		1
Skin Sens. 1	-	
	ic 3 H412 Harmful to aquatic life with lo	
GHS07		
· Signal wor	d Warning	
7,7,9(or 7 bismethacry triethylen gl • Hazard sta H315 Cause H319 Cause H317 May c H412 Harm • Precaution	ylate lycol dimethacrylate tements es skin irritation. es serious eye irritation. cause an allergic skin reaction. ful to aquatic life with long lasting effec ary statements	
P280 P305+P351	Wear protective gloves/protecti +P338 IF IN EYES: Rinse cautiousl contact lenses, if present and e Specific treatment (see on this	



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[.] 2.3 Other hazards

• 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-xxxx	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	≥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.

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· 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

· DNI			
131-57-7 (Oxybenzone		
Oral	general population, long	term, systemic	2 mg/Kg (not defined)
Dermal	worker industrial, long te	rm, systemic	39 mg/Kg/d (not defined)
	general population, long	term, systemic	20 mg/Kg/d (not defined)
Inhalative	worker industrial, long te	rm, systemic	27.7 mg/m3 (not defined)
	general population, long term, syste		6.8 mg/m3 (not defined)
·PN	ECs		
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)	
· Add	litional information: The	lists that were	valid during the compilation were used as basis. (Contd. on page

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· 8.2 Exposure controls

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- 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 Protective goggles are recommended.
 - · Body protection: Light weight protective clothing

9.1 Information on basic physical and cher	nical properties
General Information	
· Physical state	Fluid
· Colour:	White
· Smell:	Odourless
· Odour threshold:	Not determined.
 Melting point/freezing point: 	Not determined
• Boiling point or initial boiling point a	Ind
boiling range	Not determined
· Flammability	Not applicable.
Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
· Flash point:	>100 °C (72869-86-4 7,7,9(or 7,9,9)-trimethy
r laon ponti	4,13-dioxo-3,14-dioxa-5,12-diazahexadecan
	1,16-diyl bismethacrylate)
 Decomposition temperature: 	Not determined.
· SADT	Hot dotominoù.
· pH	Not determined.
· Viscosity:	Not dotorrinnoù.
· Kinematic viscosity	Not determined.
· dynamic:	Not determined.

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0.1.1.114	(Contd. of pag
· Solubility Water:	Not miscible or difficult to mix
Partition coefficient n-octanol/water (l	
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.
	No 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.
· Change in condition	·
· Evaporation rate	Not determined.
 Information with regard to physical hazar classes 	
Explosives	Void
Flammable gases	Void
· Aerosols	Void
• Oxidising gases	Void Void
· Gases under pressure · Flammable liquids	Void Void
· Flammable solids	Void
· Self-reactive substances and mixtures	
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
[•] Self-heating substances and mixtures	
- Substances and mixtures, which emit	
flammable gases in contact with water	
• Oxidising liquids	Void
Oxidising solids	Void
	Void
· Organic peroxides	
 Organic peroxides Corrosive to metals Desensitised explosives 	Void 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: -

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		city Based on available data, the classification criteria are not met. 0 values that are relevant for classification:
		sphenol-A-ethoxylat(4)dimethacrylat
Oral		>2000 mg/kg (rat)
72869-8	86-4 7, bi	7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diy smethacrylate
Oral	LD50	>5000 mg/kg (rat) (OECD 401)
Dermal	LD50	>2000 mg/kg (rat) (OECD 402)
131-57-	7 Oxyl	benzone
Oral	LD50	>12800 mg/kg (rat) (OECD 401)
Dermal	LD50	>16000 mg/kg (rabbit) (OECD 402)
21245-0		ethylhexyl 4-(dimethylamino)benzoate
Oral	LD50	14900 mg/kg (rat)
· Serie Caus · Resp May · Gerr · Carc	ous ey ses ser oirator cause n cell cinoge	n irritation. T <mark>e damage/irritation</mark> rious eye irritation. y or skin sensitisation an allergic skin reaction. mutagenicity Based on available data, the classification criteria are not met. nicity Based on available data, the classification criteria are not met.
		ive toxicity
		ethylhexyl 4-(dimethylamino)benzoate
		Fertility) 50 mg/kg/d /64 d (rat) (OECD 421)
· STO · Aspi	T-repe iration	Ie exposure Based on available data, the classification criteria are not met. eated exposure Based on available data, the classification criteria are not met. hazard Based on available data, the classification criteria are not met. ion on other hazards
·End	ocrine	disrupting properties

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-diyl ismethacrylate
LC50/96h	10.1 mg/l (fish)
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)
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NOEC / 48h 1.15 mg/l (daphnia) (OECD 202)	
· 12.2 Persistence and degradability	
131-57-7 Oxybenzone	
Biodegradation 60-70 % /28d (not defined)	
· 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 Smaller quantities can be disposed with household garbage.

· 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 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.	
14.7 Maritime transport in bulk accordi IMO instruments	ng to Not applicable.	
· Transport/Additional information:	-	
UN "Model Regulation":	Void	

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SECTION 15: Regulatory information

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

· Directive 2012/18/EU

• Named dangerous substances - ANNEX I None of the ingredients is listed. • 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

These data a	nre based on our present knowledge. However, they shall not constitute a guarantee fo product features and shall not establish a legally valid contractual relationship.
	ant 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.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
	04 Contains isocyanates. May produce an allergic reaction.
	tions and acronyms:
SADT: Self	Accelerating Decomposition Temperature
ADR: Acco	rd relatif au transport international des marchandises dangereuses par route (European Agreemei
	the International Carriage of Dangerous Goods by Road)
	national Maritime Code for Dangerous Goods ational Air Transport Association
	Ily Harmonised System of Classification and Labelling of Chemicals
EINECS: Eu	ropean Inventory of Existing Commercial Chemical Šubstances
	ropean List of Notified Chemical Substances
	ical Abstracts Service (division of the American Chemical Society) red No-Effect Level (UK REACH)
	icted No-Effect Concentration (UK REACH)
	I concentration, 50 percent
	I dose, 50 percent
	tent, Bioaccumulative and Toxic Persistent and very Bioaccumulative
	Skin corrosion/irritation – Category 2
	Serious eye damage/eye irritation – Category 2
	1: Skin sensitisation – Category 1
	IB: Skin sensitisation – Category 1B eproductive toxicity – Category 1B
	Specific target organ toxicity (single exposure) – Category 3
	te 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
	onic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
	onic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3 mpared to the previous version altered.
· * Data co	וואמוכע נט נווב אוביוטעט יפוטוטו מונפופע.