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Safety Data Sheet acc. to OSHA HCS

Printing date 11/16/2022 Reviewed on 11/16/2022 1 Identification · Product identifier • Trade name: Charisma flow · Application of the substance / the mixture Dental filling material · Details of the supplier of the safety data sheet Manufacturer/Supplier: Kulzer GmbH Tel.: +49 (0)800 4372522 Leipziger Straße 2, 63450 Hanau (Germany) · Information department: Tel. +1 (800) 431-1785 Fax: +1 (800) 522-1545 e-mail: customer.servicehkna@kulzer-dental.com Emergency telephone number: Emergency CONTACT (24-Hour-Number) ID 105860: (domestic) 1 800 535 5053 or international (001) 352 323 3500 2 Hazard(s) identification · Classification of the substance or mixture Sensitization - Skin 1 H317 May cause an allergic skin reaction. · Label elements GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). · Hazard pictograms GHS07 · Signal word Warning · Hazard-determining components of labeling: triethylen glycol dimethacrylate methyl methacrylate · Hazard statements May cause an allergic skin reaction. · Precautionary statements Wear protective gloves / eye protection. Wear protective clothing. If on skin: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. Classification system • NFPA ratings for USA (scale 0-4) Health = 0Fire = 1Reactivity = 0 · HMIS-Ratings (Scale 0-4) HEALTH 0 Health = 0FIRE 1 Fire = 1 REACTIVITY 0 Reactivity = 0

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· Results of PBT and vPvB assessment

· **PBT:** Not applicable.

vPvB: Not applicable.

3 Composition/information on ingredients

	0	
	characterization: Mixtures iption: Composition based on methacrylates	
Deser		
· Dangerous components:		
100 10 0		

 109-16-0
 triethylen glycol dimethacrylate
 ≥10-≤25%

 Sensitization - Skin 1B, H317
 20.1-<1%</td>

 80-62-6
 methyl methacrylate
 ≥0.1-<1%</td>

 Flammable Liquids 2, H225
 Skin Irritation 2, H315; Sensitization - Skin 1, H317; Specific Target Organ
 ≥0.1-<1%</td>

 Additional information 5 for the wording of the listed began because refer to pact on 16
 20.1-<1%</td>

· Additional information For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

· Description of first aid measures

General information Immediately remove any clothing soiled by the product.

Immediately 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 a doctor.

• After swallowing

Rinse out mouth and then drink plenty of water.

If symptoms persist consult doctor.

Information for doctor

Most important symptoms and effects, both acute and delayed

No further relevant information available.

• Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

Extinguishing media

Suitable extinguishing agents

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Use fire fighting measures that suit the environment.

- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- Protective equipment: No special measures required.
- Additional information -

6 Accidental release measures

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

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· Environmental precautions:

Do not allow product to reach sewage system or any water course. Do not allow to penetrate the ground/soil.

• Methods and material for containment and cleaning up:

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

- Reference to other sections
- See Section 13 for disposal information.
- See Section 8 for information on personal protection equipment.

7 Handling and storage

· Handling

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.

· Conditions for safe storage, including any incompatibilities

Storage

· Requirements to be met by storerooms and receptacles: No special requirements.

- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep cool, if possible (not above 25 °C).
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

Control parameters

Components with limit 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.

· Additional information: The lists that were valid during the creation were used as basis.

• Exposure controls

- Personal protective equipment
 - General protective and hygienic measures
 - Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

- Avoid contact with the eyes and skin.
- · Breathing equipment: Not necessary if room is well-ventilated.
- Protection of hands:

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

Solvent resistant gloves

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



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Trade name: Charisma flow (Contd. of page 3) calculated in advance and has therefore to be checked prior to the application. Penetration time of glove material The exact break through 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 protection: Safety glasses · Body protection: Light weight protective clothing 9 Physical and chemical properties · Information on basic physical and chemical properties **General Information** Appearance: Form: Pasty Color: Different according to coloring · Odor: Characteristic · Odor threshold: Not determined. · pH-value: Not determined. · Change in condition Melting point/Melting range: undetermined undetermined Boiling point/Boiling range: · Flash point: >150 °C (>302 °F) · Flammability (solid, gaseous) Not applicable. · Decomposition temperature: Not determined. · Auto igniting: Product is not selfigniting. Danger of explosion: Product does not present an explosion hazard. Explosion limits: Lower: Not determined. · Upper: Not determined. · Vapor pressure: Not determined. · Density at 20 °C (68 °F): 1.8 g/cm3 (15.021 lbs/gal) Relative density Not determined. Not determined. · Vapor density · Evaporation rate Not determined. Solubility in / Miscibility with · Water: Not miscible or difficult to mix · Partition coefficient (n-octanol/water): Not determined. Viscosity: dynamic: Not determined. · kinematic: Not determined. Solvent content: · VOC USA 0.0 g/l / 0.00 lb/gl (Contd. on page 5)



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· Other information

No further relevant information available.

10 Stability and reactivity

· Reactivity No further relevant information available.

- · Possibility of hazardous reactions No dangerous reactions known
- · Conditions to avoid No further relevant information available.
- *Incompatible materials:* No further relevant information available.
- · Hazardous decomposition products: none
- Additional information:

Product might polymerize after considerable exceeding of recommended storage time or temperature.

11 Toxicological information

Information on toxicological effects

· Acute toxicity:

 LD/LC50 values that are relevant for classification 	:
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- 109-16-0 triethylen glycol dimethacrylate
- Oral LD50 8,300 mg/kg (rat)
- Dermal LD50 >2,000 mg/kg (mouse)
- 131-57-7 Oxybenzone
- Oral LD50 >12,800 mg/kg (rat) (OECD 401)
- Dermal LD50 >16,000 mg/kg (rabbit) (OECD 402)

80-62-6 methyl methacrylate

Oral LD50 ~7,900 mg/kg (rat)

Dermal LD50 >5,000 mg/kg (guinea pig) (OECD 402)

Inhalative LC50/4 h 29.8 mg/l (rat)

Primary irritant effect:

- on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.
- · Sensitization: Guinea-Pig Maximisation Test (OECD 406): negative
- Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

· Carcinogenic categories

 IARC (International Agency for Research on Cancer) 	
128-37-0 2,6-di-tert-butyl-p-cresol	3
· NTP (National Toxicology Program)	
None of the ingredients is listed.	
· OSHA-Ca (Occupational Safety & Health Administration)	

None of the ingredients is listed.

· Reproductive toxicity Based on available data, the classification criteria are not met.

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Toxicity	
· Aquatic t	oxicity:
65997-17-3 (
EC50/72h	>1,000 mg/l (daphnia)
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)
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)
131-57-7 Ox	
EC50/48h	1.87 mg/l (daphnia) (OECD 202)
_C50/96h	3.8 mg/l (fish) (OECD 203)
ErC50 / 72 h	0.67 mg/l (algae) (OECD 201)
VOEC / 72h	0.18 mg/l (algae) (OECD 201)
VOEC / 96h	0.72 mg/l (fish) (OECD 203)
VOEC / 48h	1.15 mg/l (daphnia) (OECD 202)
80-62-6 metl	nyl methacrylate
EC50/21d	49 mg/L (daphnia) (OECD 211)
EC50/48h	69 mg/l (daphnia) (EPA OTS 797.1300)
NOEC / 21d	37 mg/l (daphnia) (OECD 211)
ErC50 / 72 h	>110 mg/l (algae) (OECD 201)
VOEC / 72h	110 mg/l (algae) (OECD 201)
VOEC / 48h	48 mg/l (daphnia) (EPA OTS 797.1300)
EbC50 / 72h	>110 mg/l (algae) (OECD 201)
VOEC/ 35d	9.4 mg/L (fish) (OECD 210)
_C50/ 35d	33.7 mg/L (fish) (OECD 210)
Persistence	and degradability
	thylen glycol dimethacrylate
	lity 85 % /28d (not defined) (OECD 301B; ISO/ 9439/ EEC 92/69/V, C.4-C)
131-57-7 Ox	
	lity 60-70 % /28d (not defined)
80-62-6 metl	nyl methacrylate
biodegradabi	ity 94 % /14d (not defined) (OECD 301C)
	environmental systems:
Bioaccun	nulative potential
131-57-7 Ox	ybenzone
Biokonzentra	tionefaktor (BCF) >33-<160 (fish) (OECD 305)



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· Mobility in soil No further relevant information available. · Additional ecological information: · General notes: Avoid transfer into the environment. · Results of PBT and vPvB assessment **PBT:** Not applicable. vPvB: Not applicable. · Other adverse effects No further relevant information available.

13 Disposal considerations

· 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.

IN Number		
UN-Number · DOT, ADR, ADN, IMDG, IATA	Void	
	V 0/4	
UN proper shipping name	Void	
· DOT, ADN, İMDĞ, IATA · ADR	Void Void	
7.2.1	VOIG	
Transport hazard class(es)		
· DOT, ADR, ADN, IMDG, IATA		
· Class	Void	
Packing group		
DOŤ, ĂDR, IMDG, IATA	Void	
Environmental hazards:		
• Marine pollutant:	No	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex	ll of	
MARPOL73/78 and the IBC Code	Not applicable.	
Transport/Additional information:	-	
UN "Model Regulation":	Void	

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available. · Sara

· SARA Section 355 (extremely hazardous substances)

None of the ingredients is listed.

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None of the ingredients is listed.

· Proposition 65

Prop 65 - Chemicals known to cause cancer

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

· SARA Section 313 (specific toxic chemical listings)

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Cancerogenity categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value)

128-37-0 2,6-di-tert-butyl-p-cresol

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

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

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 vapor.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

Date of preparation / last revision 11/16/2022

Abbreviations and acronyms:

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

DOT: US Department of Transportation IATA: International Air Transport Association 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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

VPVB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value

PEL: Permissible Exposure Limit REL: Recommended Exposure Limit

Flammable Liquids 2: Flammable liquids – Category 2

Skin Irritation 2: Skin corrosion/irritation - Category 2 Sensitization - Skin 1: Skin sensitisation - Category 1

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(Contd. of page 8) Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3 • * **Data compared to the previous version altered.**