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Printing date 03.06.2017

Version number 3

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undertaking		mixture and of the compared
· 1.1 Product identifier		
· Trade name: Charisma f	low	
• 1.2 Relevant identified uses of t No further relevant information av	the substance or mixture an	d uses advised against
· Application of the substance	e / the mixture Dental filling m	naterial
 1.3 Details of the supplier of the Manufacturer/Supplier: Kulzer GmbH Leipziger Straße 2, 63450 Han 	-	Tel.: +49 (0)800 4372
		Tel.: ++3 (0)000 +372
Informing department: E-Mai 1.4 Emergency telephone numb	er: Emergency CONTACT (2	24-Hour-Number): +49 (0)6132-84463
SECTION 2: Hazards ident	fication	
· 2.1 Classification of the substai		
· Classification according to F		08
Skin Sens. 1 H317 May cause	•	-
GHS07		
· Signal word Warning		
P280 Wear protectiv P321 Specific treatm P363 Wash contamir	rlate c skin reaction. g dust/fume/gas/mist/vapours e gloves/protective clothing/eg nent (see on this label). nated clothing before reuse. or rash occurs: Get medical a	ve protection/face protection.



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• 3.2 Chemical characterisation: Mixtures • Description: Product based on methacrylates			
· Dangerous components:			
CAS: 109-16-0 EINECS: 203-652-6 Reg.nr.: 01-2119969287-21-0000	triethylen glycol dimethacrylate Skin Sens. 1B, H317	10-25%	
CAS: 24650-42-8 EINECS: 246-386-6	2,2-dimethoxy-1,2-diphenylethan-1-one Aquatic Acute 1, H400; Aquatic Chronic 1, H410	< 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

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

· 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.

	· DNELs			
ſ	109-16-0 trieth	109-16-0 triethylen glycol dimethacrylate		
Dermal worker industr.			13.9 mg/Kg/d (nd)	
Inhalative worker industr., l.te., syst		ustr., I.te., syst.	48.5 mg/m3 (nd)	
	· PNECs			
ſ	109-16-0 trieth	109-16-0 triethylen glycol dimethacrylate		
	marine water		0.0164 mg/l (no	d)
	sedim., dw, fre	ə.wat.	1.85 mg/Kg (na	()
	sedim., dw, ma	ar.wat.	0.185 mg/Kg (n	nd)
	soil,dw		0.274 mg/Kg (n	nd)
1	• Additional information: The lists that were valid during the compilation were used as basis.			
	General Keep aw Instantly Wash ha	protecti Il protec way from y remov ands du	ve equipment ctive and hygie n foodstuffs, be re any soiled and	verages and food. d impregnated garments. d at the end of the work.

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. Breathing equipment: Not requir	(Contd. of page 3		
Breathing equipment: Not require			
Protection of hands: The glove metorial has to be im	anormaphic and registerst to the product the substance (the		
preparation.	npermeable and resistant to the product/ the substance/ th		
Selection of the glove material on	Selection of the glove material on consideration of the penetration times, rates of diffusion and th		
degradation			
Solvent resistant gloves			
Check protective gloves prior to ea	ach use for their proper condition.		
recommended			
Material of gloves The selection of the suitable a	loves does not only depend on the material, but also on furthe		
marks of quality and varies from	m manufacturer to manufacturer. As the product is a preparatio		
of several substances, the res	sistance of the glove material can not be calculated in advanc		
and has therefore to be checke	ed prior to the application.		
Penetration time of glove ma	terial		
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 protection:			
Protective goggles are recommend	ded.		
Tightly sealed safety glasses.			
 Body protection: Light weight pro 	Stective clothing		
SECTION 9: Physical and chem	ical properties		
•			
9.1 Information on basic physical and			
9.1 Information on basic physical and · General Information			
9.1 Information on basic physical and	chemical properties Pasty		
9.1 Information on basic physical and General Information Appearance: Form: Colour:	chemical properties Pasty Different according to colour		
9.1 Information on basic physical and · General Information · Appearance: · Form: · Colour: · Smell:	<i>chemical properties Pasty Different according to colour Characteristic</i>		
9.1 Information on basic physical and General Information Appearance: Form: Colour:	chemical properties Pasty Different according to colour		
9.1 Information on basic physical and · General Information · Appearance: · Form: · Colour: · Smell:	<i>chemical properties Pasty Different according to colour Characteristic</i>		
9.1 Information on basic physical and · General Information · Appearance: · Form: · Colour: · Smell: · Odour threshold: · pH-value: · Change in condition	Chemical properties Pasty Different according to colour Characteristic Not determined. Not determined.		
9.1 Information on basic physical and · General Information · Appearance: · Form: · Colour: · Smell: · Odour threshold: · pH-value: · Change in condition · Melting point/Melting range:	Chemical properties Pasty Different according to colour Characteristic Not determined. Not determined. Not determined		
9.1 Information on basic physical and · General Information · Appearance: · Form: · Colour: · Smell: · Odour threshold: · pH-value: · Change in condition	Chemical properties Pasty Different according to colour Characteristic Not determined. Not determined.		
9.1 Information on basic physical and · General Information · Appearance: · Form: · Colour: · Smell: · Odour threshold: · pH-value: · Change in condition · Melting point/Melting range:	Chemical properties Pasty Different according to colour Characteristic Not determined. Not determined. Not determined		
9.1 Information on basic physical and · General Information · Appearance: · Form: · Colour: · Smell: · Odour threshold: · pH-value: · Change in condition · Melting point/Melting range: · Boiling point/Boiling range:	Chemical properties Pasty Different according to colour Characteristic Not determined. Not determined Not determined Not determined		
9.1 Information on basic physical and · General Information · Appearance: · Form: · Colour: · Smell: · Odour threshold: · pH-value: · Change in condition · Melting point/Melting range: · Boiling point/Boiling range: · Flash point:	Chemical properties Pasty Different according to colour Characteristic Not determined. Not determined Not determined >160 °C		
9.1 Information on basic physical and · General Information · Appearance: · Form: · Colour: · Smell: · Odour threshold: · pH-value: · Change in condition · Melting point/Melting range: · Boiling point/Boiling range: · Boiling point/Boiling range: · Flash point: · Inflammability (solid, gaseous)	Chemical properties Pasty Different according to colour Characteristic Not determined. Not determined Not determined >160 °C		
9.1 Information on basic physical and · General Information · Appearance: · Form: · Colour: · Smell: · Odour threshold: · pH-value: · Change in condition · Melting point/Melting range: · Boiling point/Boiling range: · Boiling point/Boiling range: · Boiling point/Boiling range: · Inflammability (solid, gaseous) · Ignition temperature:	Chemical properties Pasty Different according to colour Characteristic Not determined. Not determined. Not determined >160 °C Not applicable.		



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· Danger of explosion:	Product is not explosive.	
 Critical values for explosion: 		
· Lower:	Not determined.	
· Upper:	Not determined.	
· Steam pressure:	Not determined.	
· Density at 20 °C	1.8 g/cm ³	
· Relative density	Ňot determined.	
· Vapour density	Not determined.	
· 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:		
· Solids content:	>60 %	
· 9.2 Other information	No further relevant information available.	

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.

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

• Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values that are relevant for classification:

109-16-0 triethylen glycol dimethacrylate

Oral LD50 > 5000 mg/kg (rat)

Dermal LD50 > 2000 mg/kg (mouse)

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24650-42-8 2,2-dimethoxy-1,2-diphenylethan-1-one

Oral LD50 >6000 mg/kg (rat)

Dermal LD50 > 7100 mg/kg (rat)

- · Primary irritant effect:
 - 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.
- Guinea-Pig Maximisation Test (OECD 406): negative
- May cause an allergic skin reaction.
- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction) 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.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

109-16-0 triethylen glycol dimethacrylate

EC50/72h > 100 mg/l (algae)

· 12.2 Persistence and degradability No further relevant information available.

- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
 - · Additional ecological information:
 - · General notes: Avoid transfer into the environment.
- · 12.5 Results of PBT and vPvB assessment
 - **PBT:** Not applicable.
 - vPvB: Not applicable.

• 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Small quantities can be polymerized by light and the cured solid material can be disposed of with the regular garbage. Larger quantities must be disposed of following the regulations of the local authorities.

· European waste catalogue

18 01 06 chemicals consisting of or containing dangerous substances

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Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information		
· 14.1 UN-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.	
 14.7 Transport in bulk according to Ann Marpol and the IBC Code 	ex II of 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

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

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

- H317 May cause an allergic skin reaction. H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.

Abbreviations and acronyms:

ADR: Accord européen sur le transport 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

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(Contd. of page 7) 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 (REACH) PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent DD50: Lethal concentration, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Skin Sens. 1: Skin sensitisation – Category 1 Skin sens. 1B: Skin sensitisation – Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1 • * Data compared to the previous version altered.