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Tel.: +49 (0)800 4372522

Safety Data Sheet acc. to OSHA HCS

Printing date 11/21/2022 Reviewed on 11/21/2022

1 Identification

- · Product identifier
 - · Trade name: Charisma ABC

- · Application of the substance / the mixture Dental filling material
- · Details of the supplier of the safety data sheet
 - Manufacturer/Supplier:

Kulzer GmbH

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

· 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*Fire* = 1 Reactivity = 0

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- · Results of PBT and vPvB assessment
 - · PBT: Not applicable. vPvB: Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
 - Description: -

· Dange	Dangerous components:				
109-16-0	triethylen glycol dimethacrylate	<i>≥1-≤</i> 10%			
	Sensitization - Skin 1B, H317				
	methacrylic acid	≥0-<1%			
	Acute Toxicity - Dermal 3, H311 Skin Corrosion 1A, H314; Eye Damage 1, H318				
	Acute Toxicity - Oral 4, H302; Acute Toxicity - Inhalation 4, H332; Specific				
	Target Organ Toxicity - Single Exposure 3, H335 Specific concentration limit: STOT SE 3; H335: C ≥ 1 %				

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

4 First-aid measures

- · Description of first aid measures
 - After inhalation Supply fresh air; consult doctor in case of complaints.
 - After skin contact

Immediately wash with water and soap and rinse thoroughly.

If skin irritation or rash occurs: Get medical advice/attention.

· 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

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 -



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6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

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 7 for information on safe handling See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- · Handling
 - **Precautions for safe handling** No special measures required.
 - 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: None.
- · 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

Wash hands before breaks and at the end of work.

- · Breathing equipment: Not necessary if room is well-ventilated.
- · Protection of hands:

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.

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· 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 Different according to coloring Color: · Odor: Odorless · Odor threshold: Not determined. Not determined. · pH-value: · Change in condition Melting point/Melting range: undetermined Boiling point/Boiling range: undetermined >150 °C (>302 °F) · Flash point: · Flammability (solid, gaseous) Not applicable. Decomposition temperature: Not determined. · Auto igniting: Product is not selfigniting. Product does not present an explosion hazard. · Danger of explosion: Explosion limits: Lower: Not determined. · Upper: Not determined. · Vapor pressure: Not determined. · Density at 20 °C (68 °F): 2.1 g/cm3 (17.5245 lbs/gal) Not determined. · Relative density · Vapor density Not determined. · Evaporation rate Not determined. · Solubility in / Miscibility with Not miscible or difficult to mix Water: · Partition coefficient (n-octanol/water): Not determined. · Viscosity: · dynamic: Not determined. · kinematic: Not determined. · Solvent content: · Solids content: 78.2 %

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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: -

11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

· LD/	LC50 va	lues that are relevant for classification:				
1565-94-2		hylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] hacrylate				
Oral	LD50	>5,000 mg/kg (rat)				
109-16-0 t	riethyle	n glycol dimethacrylate				
Oral	LD50	8,300 mg/kg (rat)				
Dermal	LD50	>2,000 mg/kg (mouse)				
2530-85-0	3-trime	thoxysilylpropyl methacrylate				
Oral	LD50	>2,000 mg/kg (rat)				
Dermal	LD50	>2,000 mg/kg (rabbit)				
68611-44-	9 Silane	, dichlorodimethyl-, reaction products with silica				
Oral	LD50	>5,000 mg/kg (rat)				
Inhalative	LC0/4h	0.477 mg/L (rat)				
112945-52	112945-52-5 Amorphous silica					
Oral	LD50	>5,000 mg/kg (rat) (OECD 401)				
Dermal	LD50	>5,000 mg/kg (rabbit)				
D. '		tont offert.				

- · Primary irritant effect:
 - · on the skin: Based on available data, the classification criteria are not met.
- Sensitization: Sensitizing effect by skin contact is possible with prolonged exposure.
- Additional toxicological information:
 - · Carcinogenic categories
 - · IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· 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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C5997-17-3 Glaspulver	·hydroxy-3,1-propanediyl)
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EC50 / 24h >10,000 mg/l (daphnia) (OECD 202)	
112945-52-5 Amorphous silica	
LC50/96h >10,000 mg/l (fish) (OECD 203)	
EC50 / 24h >1,000 mg/l (daphnia)	
Persistence and degradability	
1565-94-2 (1-methylethylidene)bis[4,1-phenyleneoxy(2-bismethacrylate	hydroxy-3,1-propanediyl
biodegradability 21 % /28d (not defined) (OECD 301F; ISO 9408/	EEC 92/69/V, C.4-D)
109-16-0 triethylen glycol dimethacrylate	
biodegradability 85 % /28d (not defined) (OECD 301B; ISO/ 9439/	

- Behavior in environmental systems:

 · Bioaccumulative potential No further relevant information available.

 · Mobility in soil No further relevant information available.

 · Results of PBT and vPvB assessment

 · PBT: Not applicable.

 · vPvB: Not applicable.

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· 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.

14 Transport information		
UN-Number DOT, ADR, ADN, IMDG, IATA	Void	
UN proper shipping name DOT, ADR, ADN, IMDG, IATA	Void	
· Transport hazard class(es)		
DOT, ADR, ADN, IMDG, IATA Class	Void	
Packing group DOT, ADR, IMDG, IATA	Void	
Environmental hazards: Marine pollutant:	No	
· Special precautions for user	Not applicable.	
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of 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.

- · Cancerogenity categories
 - · TLV (Threshold Limit Value)

None of the ingredients is listed.

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

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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

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

Date of preparation / last revision 11/21/2022

Abbreviations and acronyms:

ADDR: 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: IND Department of Transportering

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Acute Toxicity - Oral 4: Acute toxicity - Category 4
Acute Toxicity - Dermal 3: Acute toxicity - Category 3

Skin Corrosion 1A: Skin corrosion/irritation – Category 1A

Eye Damage 1: Serious eye damage/eye irritation – Category 1

Sensitization - Skin 1: Skin sensitisation – Category 1

Sensitization - Skin 1B: Skin sensitisation – Category 1B

Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3

* Data compared to the previous version altered.