

Page 1/10

# Safety data sheet according to UK REACH

Printing date 18.03.2025

Version number 5 (replaces version 4)

Revision: 18.03.2025

SECTION 1: Identification of the substance/mixtur undertaking	re and of the compan
· 1.1 Product identifier	
· Trade name: Charisma	
• <b>1.2 Relevant identified uses of the substance or mixture and uses a</b> No further relevant information available.	dvised against
<ul> <li>Application of the substance / the mixture Dental filling material</li> </ul>	
<ul> <li>1.3 Details of the supplier of the safety data sheet</li> <li>Manufacturer/Supplier: Kulzer GmbH</li> <li>Leipziger Straße 2, 63450 Hanau (Germany)</li> </ul>	Tel.: +49 (0)800 43725
Informing department: E-Mail: msds@kulzer-dental.com 1.4 Emergency telephone number: Emergency CONTACT (24-Hour-N	lumber): +49 (0)6132-84463
SECTION 2: Hazards identification	
• 2.1 Classification of the substance or mixture • Classification according to Regulation (EC) No 1272/2008 Skin Sens. 1 H317 May cause an allergic skin reaction.	
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effect	ets.
The product is classified and labelled according to the GB CLP regula • Hazard pictograms GHS07	
· Signal word Warning	
<ul> <li>Hazard-determining components of labelling: triethylen glycol dimethacrylate 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexaded Hazard statements H317 May cause an allergic skin reaction. H412 Harmful to aquatic life with long lasting effects.</li> <li>Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P273 Avoid release to the environment. P280 Wear protective gloves. P362+P364 Take off contaminated clothing and wash it before reu P333+P313 If skin irritation or rash occurs: Get medical advice/att P321 Specific treatment (see on this label).</li> <li>* 2.3 Other hazards - Results of PBT and vPvB assessment</li> </ul>	ISE.
· <b>PBT:</b> Not applicable.	



Page 2/10

### Safety data sheet according to UK REACH

Printing date 18.03.2025

Version number 5 (replaces version 4)

Revision: 18.03.2025

(Contd. of page 1)

## Trade name: Charisma

· vPvB: Not applicable.

<ul> <li>Dangerous components:</li> </ul>		
CAS: 109-16-0 EINECS: 203-652-6 Index number: 607-134-00-4 Reg.nr.: 01-2119969287-21-xxxx	triethylen glycol dimethacrylate Skin Sens. 1B, H317	≥1- <u>≤</u> 5%
CAS: 72869-86-4 EINECS: 276-957-5 Index number: 607-134-00-4 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	≥2.5-≤59
· Additional information For th	he wording of the listed hazard phrases refer to section 16.	

· 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.
  - · 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.

(Contd. on page 3)

GB



Page 3/10

## Safety data sheet according to UK REACH

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Version number 5 (replaces version 4)

Revision: 18.03.2025

## Trade name: Charisma

- **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 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 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		
109-16-0 t	triethylen glycol dimethacrylate	
Oral	general population, long term, systemic	8.33 mg/Kg (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)
72869-86-	4 7,7,9(or 7,9,9)-trimethyl-4,13-diox bismethacrylate	o-3,14-dioxa-5,12-diazahexadecane-1,16-diy
Oral	general population, long term, systemic	0.3 mg/Kg (not defined)
Dermal	worker industrial, long term, systemic	1.3 mg/Kg/d (not defined)
	general population, long term, systemic	0.7 mg/Kg/d (not defined)
Inhalative	worker industrial, long term, systemic	3.3 mg/m3 (not defined)
	general population, long term, systemic	0.6 mg/m3 (not defined)
79-41-4 m	ethacrylic acid	·
Dermal	worker industrial, long term, systemic	4.25 mg/Kg/d (not defined)
	general population, long term, systemic	2.55 mg/Kg/d (not defined)
Inhalative	worker industrial, long term, local	88 mg/m3 (not defined)
		(Contd. on page 4



Page 4/10

# Safety data sheet according to UK REACH

Printing date 18.03.2025

Version number 5 (replaces version 4)

Revision: 18.03.2025

## Trade name: Charisma

	term, systemic 29.6 mg/m3 (not defined)	
general population, long		
general population, long		
PNECs		
109-16-0 triethylen glycol dimetha	acrylate	
freshwater	0.016 mg/l (not defined)	
marine water	0.002 mg/l (not defined)	
sewage treatment plant	1.7 mg/l (not defined)	
sediment, dry weight, freshwater	0.185 mg/Kg (not defined)	
sediment, dry weight, marine water		
soil, dry weight	0.027 mg/Kg (not defined)	
	thyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-di	
bismethacrylate		
freshwater	0.01 mg/l (not defined)	
marine water	0.001 mg/l (not defined)	
sewage treatment plant	3.61 mg/l (not defined)	
sediment, dry weight, freshwater	4.56 mg/Kg (not defined)	
sediment, dry weight, marine water		
soil, dry weight	0.91 mg/Kg (not defined)	
• Additional information: The	lists that were valid during the compilation were used as basis.	
Individual protection measure General protective and hyg	ols No further data; see section 7. s, such as personal protective equipment	
Wash hands during breaks an Breathing equipment: Not re- Hand protection Check protective gloves prior recommended Material of gloves The selection of the suita marks of quality and varie of several substances, th and has therefore to be ch Penetration time of glove The exact break trough th and has to be observed.	nd at the end of the work. equired. To each use for their proper condition. ble gloves does not only depend on the material, but also on furt s from manufacturer to manufacturer. As the product is a prepara e resistance of the glove material can not be calculated in advan becked prior to the application. e material me has to be found out by the manufacturer of the protective glo	
Wash hands during breaks an Breathing equipment: Not re- Hand protection Check protective gloves prior recommended Material of gloves The selection of the suita marks of quality and varie of several substances, th and has therefore to be ch Penetration time of glove The exact break trough th and has to be observed.	nd at the end of the work. equired. It o each use for their proper condition. ble gloves does not only depend on the material, but also on furt s from manufacturer to manufacturer. As the product is a preparate e resistance of the glove material can not be calculated in advan becked prior to the application. e material me has to be found out by the manufacturer of the protective glo tact of a maximum of 15 minutes gloves made of the follow	



Page 5/10

# Safety data sheet according to UK REACH

Printing date 18.03.2025

Version number 5 (replaces version 4)

Revision: 18.03.2025

(Contd. of page 4)

Trade name: Charisma

· Body protection: Light weight protective clothing

9.1 Information on basic physical and chemic	al properties
· General Information	
· Physical state	Liquid
· Colour:	Different according to colour
· Smell:	Odourless
· Odour threshold:	Not determined.
• Melting point/freezing point:	Not determined
· Boiling point or initial boiling point and	
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
	4,13-dioxo-3,14-dioxa-5,12-diazahexadecan
	1,16-diyl bismethacrylate)
· Decomposition temperature:	Not determined.
SADT	Not determined.
	Not determined.
· pH · Viscosity:	Not determined.
	Not data wain a d
Kinematic viscosity	Not determined.
dynamic:	Not determined.
Solubility	Naturia sible an difficult to min
· Water:	Not miscible or difficult to mix
Partition coefficient n-octanol/water (log	
value)	Not determined.
· Steam pressure:	Not determined.
Density and/or relative density	
Density	Not determined
Relative density	Not determined.
· Vapour density	Not determined.
9.2 Other information	No further relevant information available.
· Appearance:	
· Form:	Pasty
Important information on protection of hea	
and environment, and on safety.	
Self-inflammability:	Product is not selfigniting.
• Explosive properties:	Product is not explosive.
· Solvent content:	
· VOC EU	g/l
· Change in condition	9''
· Evaporation rate	Not determined.



Page 6/10

### Safety data sheet according to UK REACH

Printing date 18.03.2025

Version number 5 (replaces version 4)

Revision: 18.03.2025

## Trade name: Charisma

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	
<ul> <li>Substances and mixtures, which emit</li> </ul>		
flammable gases in contact with water	Void	
· Oxidising liquids	Void	
· Oxidising solids	Void	
· Organic peroxides	Void	
· Corrosive to metals	Void	
<ul> <li>Desensitised explosives</li> </ul>	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 Info Acute	rmation of toxicity	on hazard classes as defined in Regulation (EC) No 1272/2008 Based on available data, the classification criteria are not met.
· LD	/LC50 va	lues that are relevant for classification:
65997-18	-4 frits, c	hemicals
Oral	LD50	>2000 mg/kg (rat) (OECD 423)
Dermal	LD50	>2000 mg/kg (rat) (OECD 402)
(1-methy	lethylide	ne)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate
	LD50	>5000 mg/kg (rat)



Page 7/10

### Safety data sheet according to UK REACH

Printing date 18.03.2025

Version number 5 (replaces version 4)

Revision: 18.03.2025

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List II

List II

## Trade name: Charisma

Oral	LD50	8300 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (mouse)
72869-86		r 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-di acrylate
Oral	LD50	>5000 mg/kg (rat) (OECD 401)
Dermal	LD50	>2000 mg/kg (rat) (OECD 402)
79-41-4 n	hethacrylic	acid
Oral	LD50	1320 mg/kg (rat) (OECD 401)
Dermal	LD50	500-1000 mg/kg (rab)
Inhalative	1 C50/4 h	7.1 mg/l (rat) (OECD 403)

- 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** May cause an allergic skin reaction.

· 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

131-57-7 Oxybenzone

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

· 12.1 Toxicity	/	
· Aquatic t	oxicity:	
65997-18-4 f	rits, chemicals	
LC50/96h	≥3.09 mg/l (fish)	
ErC50 / 72 h	≥2.4 mg/l (algae)	
65997-17-3 0	Jlaspulver	
EC50/72h	>1000 mg/l (daphnia)	
LC50/96h	>1000 mg/l (fish)	
ErC50 / 72 h	>1000 mg/l (algae)	
NOEC / 72h	1000 mg/l (algae)	
	1000 mg/l (daphnia)	
(1-methyleth	ylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate	
LC50/96h	>100 mg/l (fish) (OECD 203)	



Page 8/10

## Safety data sheet according to UK REACH

Printing date 18.03.2025

Version number 5 (replaces version 4)

Revision: 18.03.2025

## Trade name: Charisma

100 10 0 1	(Contd. of page )
	thylen glycol dimethacrylate
EC50/21d	51.9 mg/L (daphnia) (OECD 211)
LC50/96h	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)
	72.8 mg/l (algae) (OECD 201)
72869-86-4 7 k	,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl ismethacrylate
EC50/48h	>1.2 mg/l (daphnia) (OECD 202)
LC50/96h	10.1 mg/l (fish) (OECD 203)
ErC50 / 72 h	>0.68 mg/l (algae) (OECD 201)
NOEC / 72h	0.21 mg/l (algae) (OECD 201)
79-41-4 metl	nacrylic acid
EC50/48h	>130 mg/l (daphnia) (EPA OTS 797.1300)
LC50/96h	85 mg/l (fish) (EPA OTS 797.1400)
NOEC / 21d	53 mg/l (daphnia)
ErC50 / 72 h	45 mg/l (algae) (OECD 201)
NOEC / 72h	8.2 mg/l (algae) (OECD 201)
NOEC / 96h	12 mg/l (fish) (EPA OTS 797.1400)
NOEC / 48h	130 mg/l (daphnia) (EPA OTS 797.1300)
· 12.2 Persiste	ence and degradability
(1-methyleth	ylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate
Biodegradatio	on 21 % /28d (not defined) (OECD 301F; ISO 9408/ EEC 92/69/V, C.4-D)
109-16-0 trie	thylen glycol dimethacrylate
Biodegradatio	on 85 % /28d (not defined) (OECD 301B; ISO/ 9439/ EEC 92/69/V, C.4-C)
	,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl ismethacrylate
Biodegradatio	on 22 % /28d (not defined) (OECD 301B; ISO/ 9439/ EEC 92/69/V, C.4-C)
79-41-4 metl	nacrylic acid
Biodegradatio	on 86 % /28d (not defined) (OECD 301D)
12.4 Mobility 12.5 Results PBT: Not	t applicable.
· 12.6 Endocr	i <b>ne disrupting properties</b> on on endocrine disrupting properties see section 11.



Page 9/10

## Safety data sheet according to UK REACH

Printing date 18.03.2025

Version number 5 (replaces version 4)

Revision: 18.03.2025

(Contd. of page 8)

## Trade name: Charisma

12.7 Other adverse effects

Additional ecological information:

· General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

#### **SECTION 13: Disposal considerations**

#### · 13.1 Waste treatment methods

#### · Recommendation

Small quantities can be polymerized with the matching system component(s) and the cured solid material can be disposed of with the regular garbage.

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.

SECTION 14: Transport information	1	
· 14.1 UN number or ID number · ADR, ADN, IMDG, IATA	Void	
<ul> <li>14.2 UN proper shipping name ADR, ADN, IMDG, IATA</li> </ul>	Void	
<ul> <li>14.3 Transport hazard class(es)</li> </ul>		
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.	
<ul> <li>14.7 Maritime transport in bulk according t instruments</li> </ul>	t <b>o IMO</b> 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

No further relevant information available.

(Contd. on page 10)



Page 10/10

## Safety data sheet according to UK REACH

*Printing date 18.03.2025* 

Version number 5 (replaces version 4)

Revision: 18.03.2025

(Contd. of page 9)

## Trade name: Charisma

#### · Poisons Act

Regulated explosives precursors

None of the ingredients is listed.

· Regulated poisons

None of the ingredients is listed.

Reportable explosives precursors

None of the ingredients is listed.

· Reportable poisons

None of the ingredients is listed.

· 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.
- H411 Toxic to aquatic life with long lasting effects.

EUH204 Contains isocyanates. May produce an allergic reaction.

#### 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 Ist of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) VOCV: Lenkungsabgabe auf flüchtigen organischen Verbindungen, Schweiz (Swiss Ordinance on volatile organic compounds) DNEL: Derived No-Effect Level (UK REACH) PNEC: Predicted No-Effect Concentration (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative Skin Sens. 1: Skin sensitisation – Category 1 Skin Sens. 1: Skin sensitisation – Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3 \* Data compared to the previous version altered.