

Page 1/8

### Safety data sheet according to 1907/2006/EC, Article 31

Printing date 15.09.2020 Version number 4 Revision: 11.08.2020

## SECTION 1: Identification of the substance/mixture and of the company/ undertaking

- · 1.1 Product identifier
  - · Trade name: Signum cre-active
  - colourfluids, transpafluids, gingiva
- 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
  - · Application of the substance / the mixture Auxiliary for manufacture of dental prothesis
- · 1.3 Details of the supplier of the safety data sheet
  - Manufacturer/Supplier:

Kulzer GmbH

Leipziger Straße 2, 63450 Hanau (Germany)

Tel.: +49 (0)800 4372522

- · Informing department: E-Mail: msds@kulzer-dental.com
- · 1.4 Emergency telephone number: Emergency CONTACT (24-Hour-Number): +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.

- · 2.2 Label elements
  - Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS07

- · Signal word Warning
- · Hazard-determining components of labelling:

triethylen glycol dimethacrylate

diphényl(2,4,6- trimethylbénzoyl)phosphine oxide

· Hazard statements

H317 May cause an allergic skin reaction.

Precautionary statements

Wear protective gloves / eye protection.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

· 2.3 Other hazards -

· Results of PBT and vPvB assessment

- · PBT: Not applicable.
- vPvB: Not applicable.

#### SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

**Description:** Product based on methacrylates

· Dangerous components:

CAS: 109-16-0 triethylen glycol dimethacrylate EINECS: 203-652-6 Skin Sens. 1B. H317

Reg.nr.: 01-2119969287-21-0000

≥25-*≤*50%

(Contd. on page 2)



Page 2/8

## Safety data sheet according to 1907/2006/EC, Article 31

Printing date 15.09.2020 Version number 4 Revision: 11.08.2020

### Trade name: Signum cre-active

	(0	Contd. of page 1)
CAS: 75980-60-8	diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide	≥0.25-<1%
EINECS: 278-355-8 Reg.nr.: 01-2119972295-29-x	Repr. 2, H361f xxx Aguatic Chronic 2, H411	
Neg.III 01-2119912293-29-X	Skin Sens. 1B, H317	
CAS: 79-41-4	methacrylic acid	≥0-<1%
EINECS: 201-204-4	Acute Tox. 3, H311	
Reg.nr.: 01-2119463884-26-X	XXX	
	3. H335	
	Specific concentration limit:	
	STOT SE 3; H335: C ≥ 1 %	

<sup>·</sup> Additional information For the wording of the listed hazard phrases refer to section 16.

## 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.

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 Avoid contact with eyes and skin.
- · 6.2 Environmental precautions: Prevent material from reaching sewage system, holes and cellars.

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

No dangerous materials are released.

See Section 8 for information on personal protection equipment.

(Contd. on page 3)



Page 3/8

## Safety data sheet according to 1907/2006/EC, Article 31

Printing date 15.09.2020 Version number 4 Revision: 11.08.2020

Trade name: Signum cre-active

(Contd. of page 2)

#### 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

- · 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.

Not required.

	JILLI
109-16-0 t	riethylen glycol dimethacrylate

Dermal worker industr., l.te., syst. 13.9 mg/Kg/d (nd) Inhalative worker industr., l.te., syst. 48.5 mg/m3 (nd)

PNECs

· DNFI e

#### 109-16-0 triethylen glycol dimethacrylate

marine water 0.0164 mg/l (nd) sedim., dw, fre.wat. 1.85 mg/Kg (nd) sedim., dw, mar.wat. 0.185 mg/Kg (nd) soil,dw 0.274 mg/Kg (nd)

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

#### · 8.2 Exposure controls

- · Personal protective equipment
  - · General protective and hygienic measures

Wash hands during breaks and at the end of the 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.

· 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.

(Contd. on page 4)



Page 4/8

### Safety data sheet according to 1907/2006/EC, Article 31

Printing date 15.09.2020 Version number 4 Revision: 11.08.2020

Trade name: Signum cre-active

(Contd. of page 3)

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

#### SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

General Information

· Appearance:

Form:

· Colour: According to product specification

· Smell: Weak, characteristic · Odour threshold: Not determined.

Not determined. · pH-value:

Change in condition

Melting point/freezing point: Not determined

· Initial boiling point and boiling range: Not determined

· Flash point: Not applicable · Inflammability (solid, gaseous) Not applicable.

· Decomposition temperature: Not determined.

· Self-inflammability: Product is not selfigniting.

Explosive properties: Product is not explosive.

Critical values for explosion:

Lower: Not determined. · Upper: Not determined.

· Steam pressure: Not determined.

· Density Not determined Not determined. Relative density · Vapour density Not determined.

Solubility in / Miscibility with

Evaporation rate

· Water: Not miscible or difficult to mix

Not determined.

· Partition coefficient: n-octanol/water: Not determined.

· Viscosity:

· dynamic: Not determined. · kinematic: Not determined.

· Solvent content:

**VOC EU** 

g/l No further relevant information available. · 9.2 Other information

## SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

(Contd. on page 5)



Page 5/8

## Safety data sheet according to 1907/2006/EC, Article 31

Printing date 15.09.2020 Version number 4 Revision: 11.08.2020

Trade name: Signum cre-active

(Contd. of page 4)

- · 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/	· LD/LC50 values that are relevant for classification:				
1565-94-2 Bisphenol A-bis(hydroxypropylmethacrylate)					
Oral	LD50	>5,110 mg/kg (rat)			
109-16-0 t	109-16-0 triethylen glycol dimethacrylate				
Oral	LD50	8,300 mg/kg (rat)			
Dermal	LD50	>2,000 mg/kg (mouse)			
112945-52	112945-52-5 Amorphous silica				
Oral	LD50	>10,000 mg/kg (rat)			
Dermal	LD50	>5,000 mg/kg (rabbit)			
75980-60-	75980-60-8 diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide				
Oral	LD50	>5,000 mg/kg (rat) (OECD 401)			
Dermal	LD50	>2,000 mg/kg (rat) (OECD 402)			
79-41-4 m	79-41-4 methacrylic acid				
Oral	LD50	1,320 mg/kg (rat) (OECD 401)			
Dermal	LD50	500-1,000 mg/kg (rab)			
Inhalative	LC50/4 h	7.1 mg/l (rat) (OECD 403)			

- · 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.

· Respiratory or skin sensitisation

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.



Page 6/8

### Safety data sheet according to 1907/2006/EC, Article 31

Printing date 15.09.2020 Version number 4 Revision: 11.08.2020

Trade name: Signum cre-active

(Contd. of page 5)

## SECTION 12: Ecological information · 12.1 Toxicity · Aquatic toxicity:

109-16-0 triethylen glycol dimethacrylate EC50/72h >100 mg/l (algae)

112945-52-5 Amorphous silica

LC50/96h >10,000 mg/l (fish)

75980-60-8 diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide

EC50/48h 10,100 mg/l (algae)

10-100 mg/l (daphnia)

79-41-4 methacrylic acid

EC50/72h 45 mg/l (algae) EC50/48h >130 mg/l (daphnia) LC50/96h 85 mg/l (fish) NOEC / 21d 53 mg/l (daphnia)

NOEC / 72h 8.2 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:

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

- · 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

Must not be disposed of together with household garbage. Do not allow product to reach sewage

Void

Disposal must be made according to official regulations.

European waste catalogue

18 01 06\* chemicals consisting of or containing hazardous substances

- · Uncleaned packagings:
  - Recommendation:

Disposal must be made according to official regulations.

Non contaminated packagings can be used for recycling.

#### SECTION 14: Transport information

14.1 UN-Number

ADR, ADN, IMDG, IATA

(Contd. on page 7)



Page 7/8

### Safety data sheet according to 1907/2006/EC, Article 31

Printing date 15.09.2020 Version number 4 Revision: 11.08.2020

Trade name: Signum cre-active

		(Contd. of page 6)
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 Anne 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
  - 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

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.

H361f Suspected of damaging fertility.

H411 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

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)

VOCV: Lenkungsabgabe auf flüchtigen organischen Verbindungen, Schweiz (Swiss Ordinance on volatile organic

compounds)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

(Contd. on page 8)



Page 8/8

# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 15.09.2020 Version number 4 Revision: 11.08.2020

Trade name: Signum cre-active

(Contd. of page 7)

PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Acute Tox. 4: Acute toxicity - oral - Category 4
Acute Tox. 3: Acute toxicity - dermal - Category 3
Skin Corr. 1A: Skin corrosion/irritation - Category 1A
Eye Dam. 1: Serious eye damage/eye irritation - Category 1
Skin Sens. 1B: Skin sensitisation - Category 1
Skin Sens. 1B: Skin sensitisation - Category 1 Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1B: Skin sensitisation – Category 1B
Repr. 2: Reproductive toxicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
\* \* Data compared to the previous version altered.