

Page 1/7

# Safety Data Sheet acc. to OSHA HCS

Printing date 02/10/2018

Reviewed on 02/10/2018

### 1 Identification

- · Product identifier
  - · Trade name: Signum Composite flow
    - · Application of the substance / the mixture Veneering resin
- · Details of the supplier of the safety data sheet
  - Manufacturer/Supplier:

Kulzer GmbH

Leipziger Straße 2, 63450 Hanau (Germany) Tel.: +49 (0)800 4372522

· 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)

GBK/Infotrac ID 105860: (domestic) 1 800 535 5053 or international (001) 352 323 3500

### 2 Hazard(s) identification

· Classification of the substance or mixture

Skin Sensitizer - Category 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.

· Précautionary statements

Avoid breathing dust/fume/gas/mist/vapours/spray.

Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection/face protection.

If on skin: Wash with plenty of water.

Specific treatment (see on this label).

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

- · Classification system
  - · NFPA ratings for USA (scale 0-4)



Health = 0 Fire = 1 Reactivity = 0

· HMIS-Ratings (Scale 0-4)



Health = 0 Fire = 1 Reactivity = 0

(Contd. on page 2)



Page 2/7

### Safety Data Sheet acc. to OSHA HCS

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## Trade name: Signum Composite flow

· Other hazards -

(Contd. of page 1)

### 3 Composition/information on ingredients

- · Chemical characterization: Mixtures
  - · Description:
  - · Dangerous components:

109-16-0 triethylen glycol dimethacrylate 5-10% w/w Skin Sensitizer - Category 1B, H317

· 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 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

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 clothing.
- · 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). Send for recovery or disposal in suitable receptacles.

Reference to other sections

See Section 7 for information on safe handling

(Contd. on page 3)



Page 3/7

### Safety Data Sheet acc. to OSHA HCS

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Reviewed on 02/10/2018

# Trade name: Signum Composite flow

(Contd. of page 2)

See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

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### 7 Handling and storage

- · Handling
  - · Precautions for safe handling

Please observe the additional instructions in the product's instructions for use.

Wear protective equipment. Keep unprotected persons away.

- · 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

- · 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.

- · 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 required.
- · 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 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

- · Eve protection: Safety glasses
- · Body protection: Light weight protective clothing

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Page 4/7

# Safety Data Sheet acc. to OSHA HCS

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# Trade name: Signum Composite flow

(Contd. of page 3)

	leaved and account of the		
nformation on basic physical and cl · General Information	nemical properties		
· Appearance:			
· Appearance. · Form:	Fluid		
· Color:	Cream colored		
· Odor:	Odorless		
· Odor threshold:	Not determined.		
· pH-value:	Not determined.		
· Change in condition			
Melting point/Melting range:	undetermined		
· Boiling point/Boiling range:	255 °C (491 °F)		
· Flash point:	101 °C (213.8 °F)		
· Flammability (solid, gaseous)	Not applicable.		
· Ignition temperature:			
· 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:	Not determined		
· Relative density	Not determined.		
Vapor density	Not determined.		
· Evaporation rate	Not determined.		
Solubility in / Miscibility with	A		
Water:	Not miscible or difficult to mix		
· Partition coefficient (n-octanol/water): Not determined.			
· Viscosity:			
dynamic:	Not determined.		
· kinematic:	Not determined.		
· Solvent content:			
· Water:	1,3 %		
Solids content:	9,6 %		
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

(Contd. on page 5)



Page 5/7

### Safety Data Sheet acc. to OSHA HCS

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# Trade name: Signum Composite flow

· Additional information: -

(Contd. of page 4)

## 11 Toxicological information

- Information on toxicological effects

· Acu	te toxi	city:		
· LD/LC50 values that are relevant for classification:				
109-16-0 triethylen glycol dimethacrylate				
		>5,000 mg/kg (rat)		
Dermal	LD50	>2,000 mg/kg (mouse)		
amorphe Kieselsäure				
Oral	LD50	>5,000 mg/kg (rat)		
24650-42-8 2,2-dimethoxy-1,2-diphenylethan-1-one				
		>6,000 mg/kg (rat)		
Dermal	LD50	>7,100 mg/kg (rat)		
128-37-0 2,6-di-tert-butyl-p-cresol				
Oral	LD50	>2,000 mg/kg (rat)		

- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:
  - · Carcinogenic categories
    - · IARC (International Agency for Research on Cancer)

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

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· NTP (National Toxicology Program)

None of the ingredients is listed.

# 12 Ecological information

· Toxicity

· Aquatic toxicity:

109-16-0 triethylen glycol dimethacrylate

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

Eigene Untersuchung von EVONIK

- Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
  - · Bioaccumulative potential No further relevant information available.
  - Mobility in soil No further relevant information available.
- · Ecotoxical effects:
  - Remark: Harmful to fish
- · Additional ecological information:
  - General notes:

Avoid transfer into the environment.

- Harmful to aquatic organisms
  Results of PBT and vPvB assessment
  - · PBT: Not applicable.
  - · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.



Page 6/7

# Safety Data Sheet acc. to OSHA HCS

Printing date 02/10/2018

Reviewed on 02/10/2018

# Trade name: Signum Composite flow

(Contd. of page 5)

## 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, TDG, ADN, IMDG, IATA	Void	
UN proper shipping name DOT, TDG, ADN, IMDG, IATA	Void	
· Transport hazard class(es)		
· DOT, TDG, ADN, IMDG, IATA · Class	Void	
Packing group DOT, TDG, IMDG, IATA	Void	
· Environmental hazards:	Not applicable.	
· Special precautions for user	Not applicable.	
· Transport in bulk according to Anne MARPOL73/78 and the IBC Code	<b>( II of</b> Not applicable.	
· Transport/Additional information:	-	

# 15 Regulatory information

· UN "Model Regulation":

· Safety, health and environmental regulations/legislation specific for the substance or mixture · SARA Section 355 (extremely hazardous substances)

Void

None of the ingredients is listed.

- · TSCA (Toxic Substances Control Act) None of the ingredients is listed.
- · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms



- · Signal word Warning
- · Hazard-determining components of labeling: triethylen glycol dimethacrylate

(Contd. on page 7)



Page 7/7

### Safety Data Sheet acc. to OSHA HCS

Printing date 02/10/2018

Reviewed on 02/10/2018

# Trade name: Signum Composite flow

(Contd. of page 6)

· Hazard statements

May cause an allergic skin reaction.

Precautionary statements

Avoid breathing dust/fume/gas/mist/vapours/spray.

Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection/face protection.

If on skin: Wash with plenty of water. Specific treatment (see on this label).

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

· 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

H317 May cause an allergic skin reaction.

· Date of preparation / last revision 02/10/2018 / 2

Abbreviations and acronyms:

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)
NEPA: National Fire Protection Association (USA)

NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative

\* Data compared to the previous version altered.