

Page 1/7

CDN

# Safety Data Sheet acc. to OSHA HCS

Printing date 11/28/2017 Reviewed on 11/28/2017 1 Identification · Product identifier Trade name: VENUS Diamond flow · 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) 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 Irritation - Category 2 H315 Causes skin irritation. Eye Irritation - Category 2A H319 Causes serious eye irritation. · 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 statements Causes skin irritation. Causes serious eye irritation. · Precautionary statements Wear protective gloves / eye protection / face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Specific treatment (see on this label). If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Classification system • NFPA ratings for USA (scale 0-4) Health = 2Fire = 1Reactivity = 0(Contd. on page 2)



Page 2/7

(Contd. of page 1)

# Safety Data Sheet acc. to OSHA HCS

Printing date 11/28/2017

Reviewed on 11/28/2017

## Trade name: VENUS Diamond flow

· HMIS-Ratings (Scale 0-4)

HEALTH2Health = 2FIRE1Fire = 1REACTIVITY0Reactivity = 0

· Other hazards -

# 3 Composition/information on ingredients • Chemical characterization: Mixtures • Description: • Dangerous components: 13760-80-0 ytterbium trifluoride Skin Irritation - Category 2, H315; Eye Irritation - Category 2A, H319; Specific Target Organ Toxicity - Single Exposure - Category 3, H335

## 4 First-aid measures

#### · Description of first aid measures

- General information No special measures required.
- After inhalation Supply fresh air; consult doctor in case of complaints.
- After skin contact Immediately 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.
- 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 foam.
- 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 Not required.
- · Environmental precautions: No special measures required.
- · Methods and material for containment and cleaning up: Pick up mechanically.
- · Reference to other sections
- See Section 13 for disposal information.

(Contd. on page 3)



Page 3/7

(Contd. of page 2)

# Safety Data Sheet acc. to OSHA HCS

Printing date 11/28/2017

Reviewed on 11/28/2017

## Trade name: VENUS Diamond flow

See Section 8 for information on personal protection equipment.

## 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: Store in dry conditions.
  - Keep cool, if possible (not above 25 °C).
- · 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:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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
- Eye protection: Safety glasses

(Contd. on page 4)



Page 4/7

(Contd. of page 3)

# Safety Data Sheet acc. to OSHA HCS

Printing date 11/28/2017

Reviewed on 11/28/2017

## Trade name: VENUS Diamond flow

· Body protection: Light weight protective clothing

9 Physical and chemical propert	ies
<ul> <li>Information on basic physical and ch</li> <li>General Information</li> </ul>	nemical properties
· Appearance: · Form:	Pactu
· Color:	Pasty White
	Yellowish
· Odor:	Odorless
· Odor threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
<ul> <li>Melting point/Melting range:</li> </ul>	undetermined
<ul> <li>Boiling point/Boiling range:</li> </ul>	undetermined
· Flash point:	> 100 °C (>212 °F)
· Flammability (solid, gaseous)	Not applicable.
· Ignition temperature:	
<ul> <li>Decomposition temperature:</li> </ul>	Not determined.
· Auto igniting:	Product is not selfigniting.
<ul> <li>Danger of explosion:</li> </ul>	Product does not present an explosion hazard.
<ul> <li>Explosion limits:</li> <li>Lower:</li> <li>Upper:</li> </ul>	Not determined. Not determined.
· Vapor pressure:	Not determined.
<ul> <li>Density at 20 °C (68 °F):</li> <li>Relative density</li> <li>Vapor density</li> <li>Evaporation rate</li> </ul>	1,9 g/cm³ (15.8555 lbs/gal) Not determined. Not determined. Not determined.
• Solubility in / Miscibility with • Water:	Not miscible or difficult to mix
· Partition coefficient (n-octanol/wa	nter): Not determined.
Viscosity: dynamic: kinematic: Other information	Not determined. Not determined. 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)

<sup>-</sup> CDN



Page 5/7

(Contd. of page 4)

# Safety Data Sheet acc. to OSHA HCS

Printing date 11/28/2017

Reviewed on 11/28/2017

## Trade name: VENUS Diamond flow

· Additional information: -

· Inform	ation on toxicological effects ite toxicity:	
	D/LC50 values that are relevant for classification:	
	60-6 Bisphenol-A-ethoxylat(4)dimethacrylat	
	LD50 >2000 mg/kg (rat)	
	60-4 diurethandimethacrylate	
Oral	LD50 >5000 mg/kg (rat)	
109-16	-0 triethylen glycol dimethacrylate	
	LD50 > 5000 mg/kg (rat)	
Dermal	LD50 > 2000 mg/kg (mouse)	
· <b>Ada</b> The Clas Whe effe	• on the skin: No irritant effect. • on the eye: No irritating effect. Sensitization: No sensitizing effects known. Initional toxicological information: product is not subject to classification according to the calculation method of the Gene ssification Guidelines for Preparations as issued in the latest version: en used and handled according to specifications, the product does not have any h cts according to our experience and the information provided to us. Carcinogenic categories	
7604.0	· IARC (International Agency for Research on Cancer)	
	6-9 silicon dioxide, chemically prepared	3
128-3	7-0 2,6-di-tert-butyl-p-cresol	3
	· NTP (National Toxicology Program)	
N/	f 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	
<ul> <li>Persistence and degradability No further relevant information available.</li> <li>Behavior in environmental systems:         <ul> <li>Bioaccumulative potential No further relevant information available.</li> <li>Mobility in soil No further relevant information available.</li> </ul> </li> <li>Additional ecological information:</li> </ul>	
General notes: Avoid transfer into the environment.     Results of PBT and vPvB assessment     PBT: Not applicable.     VBT: Not applicable.	

vPvB: Not applicable.

(Contd. on page 6)



Page 6/7

(Contd. of page 5)

# Safety Data Sheet acc. to OSHA HCS

Printing date 11/28/2017

Reviewed on 11/28/2017

## Trade name: VENUS Diamond flow

· Other adverse effects No further relevant information available.

## 13 Disposal considerations

· 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.

#### · Uncleaned packagings:

• Recommendation: Disposal must be made according to official regulations.

4 Transport information		
· UN-Number · DOT, TDG, ADN, IMDG, IATA	Void	
· UN proper shipping name · DOT, TDG, ADN, IMDG, IATA	Void	
<ul> <li>Transport hazard class(es)</li> </ul>		
· DOT, TDG, ADN, IMDG, IATA · Class	Void	
· Packing group DOT, TDG, IMDG, IATA	Void	
<ul> <li>Environmental hazards:</li> <li>Marine pollutant:</li> </ul>	No	
· Special precautions for user	Not applicable.	
<ul> <li>Transport in bulk according to Annex MARPOL73/78 and the IBC Code</li> </ul>	ll 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
 SARA Section 355 (extremely hazardous substances)

None of the ingredients is listed.

• TSCA (Toxic Substances Control Act) Medical devices are exempted from TSCA. GHS label elements

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



(Contd. on page 7)

CDN -



Page 7/7

(Contd. of page 6)

### Safety Data Sheet acc. to OSHA HCS

Printing date 11/28/2017

Reviewed on 11/28/2017

## Trade name: VENUS Diamond flow

· Signal word Warning

· Hazard statements

Causes skin irritation.

Causes serious eye irritation. Precautionary statements Wear protective gloves / eye protection / face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Specific treatment (see on this label). If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

· 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

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Date of preparation / last revision 11/28/2017 / 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 Sociation

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

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

\* Data compared to the previous version altered.

CDN