SAFETY DATA SHEETS

This SDS packet was issued with item: 071271675

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

071271709 071271733 071271741 071483163 071483171 071483189 071483197 071483213 071483221 071483239 071483247 071483320 071483338 074561007 074561015 074561023 074561031 074561049 074561056 074561064 074561072 074561080 074561098 074561106 074561114 074561122 074561130 074561148 074561205 074561213 074561221 074561239 074561247 074561254 074561262 074561270 074561288 074561296 074561304 074561312 074561320 074561338 074561346 074561411 074561429 074561437 074561445 074561452 074561460 074561478 074561486 074561494 074561502 074561510 074561528 074561536 074561544 074561551 074561569 074561577 074561585 074561593 074561601 074561619 074561627 074561635 074561643 074561650 074561668 074561676 074561684 075461411

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

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Safety Data Sheet acc. to OSHA HCS

Reviewed on 06/03/2017 Printing date 06/03/2017 1 Identification · Product identifier • Trade name: VENUS Pearl · 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 Sens. 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: 2-Propenoic acid, (octahydro-4,7-methano-1H-indene-5 -diyl)bis(methyleneiminocarbonyloxy-2,1ethanediyl) ester triethylen glycol dimethacrylate · Hazard statements May cause an allergic skin reaction. Precautionary statements Avoid breathing dust/fume/gas/mist/vapors/spray Wear protective gloves. Specific treatment (see on this label). Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention. IF ON SKIN: Wash with plenty of water. (Contd. on page 2) USA



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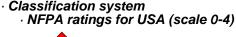
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· HMIS-Ratings (Scale 0-4)



 $Health = 0 \\ Fire = 1 \\ Reactivity = 0$

· Results of PBT and vPvB assessment

- PBT: Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description: -

· Dangerous components:

Bungorou	e componente.	
861437-11-8	2-Propenoic acid, (octahydro-4,7-methano-1H-indene-5 -diyl) bis(methyleneiminocarbonyloxy-2,1-ethanediyl) ester	10-25%
	Skin Sens. 1, H317	
109-16-0	triethylen glycol dimethacrylate	0-5%
	Skin Sens. 1B, H317	
· Additiona	<i>I information</i> 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.

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5 Fire-fighting measures

- · Extinguishing media
 - · Suitable extinguishing agents
 - Use fire fighting measures that suit the environment.
 - CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · Special hazards arising from the substance or mixture
- Formation of toxic gases is possible during heating or in case of fire.
- Advice for firefighters
- Protective equipment: No special measures required.
- · Additional information -

6 Accidental release measures

 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
 Environmental precautions:

Do not allow to enter sewers/ surface or ground water. 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). Dispose of the collected material according to regulations.

• **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 Ensure good ventilation/exhaustion at the workplace.
 - · 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.

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· Flash point:

· Flammability (solid, gaseous)

· Decomposition temperature:

· Ignition temperature:

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Trade name: VENUS Pearl

	(Contd. of page 3)
 Additional information: The lists t 	hat were valid during the creation were used as basis.
· Exposure controls	
Personal protective equipment	
General protective and hygienic	measures
Immediately remove all solled and o	contaminated clothing
Wash hands before breaks and at t	
Breathing equipment: Not require	0.
Protection of hands:	wate stive allowers are recommended to
	protective gloves are recommended to
avoid possible sensitization.	ala sea fan (la sin nan an an di (ian
Check protective gloves prior to eac	on use for their proper condition.
recommended	
· Material of gloves	and a second and a second and the matterial built also an further
The selection of the suitable gid	oves 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 resis	stance of the glove material can not be calculated in advance
and has therefore to be checked	
Penetration time of glove mate	
The exact break through time ha	as to be found out by the manufacturer of the protective gloves
and has to be observed.	
	f a maximum of 15 minutes gloves made of the following
materials are suitable:	
Butyl rubber, BR	
Nitrile rubber, NBR • Eye protection: Not absolutely neo	2000011
 Body protection: Light weight prot 	ective clothing
9 Physical and chemical propertie	e de la companya de la
9 Physical and chemical properties	5
Information on basic physical and cher	nical properties
· General Information	
· Appearance:	
· Form:	Pasty
· Color:	Different according to coloring
· Odor:	Odorless
· Odor threshold:	Not determined.
· pH-value:	Not determined.
•	
Change in condition	undetermined
• Melting point/Melting range:	undetermined
 Boiling point/Boiling range: 	> 250 °C (> 482 °F)

> 165 °C (> 329 °F)

Not determined.

Not applicable.



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	(Contd. of page 4)
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
• Explosion limits: • Lower: • Upper:	Not determined. Not determined.
· Vapor pressure:	Not determined.
 Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate 	2.1 g/cm ³ (17.525 lbs/gal) Not determined. Not determined. Not determined.
Solubility in / Miscibility with Water:	Not miscible or difficult to mix
· Partition coefficient (n-octanol/v	vater): 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

· Additional information: -

11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

861437-11-82-Propenoic acid, (octahydro-4,7-methano-1H-indene-5 -diyl) bis(methyleneiminocarbonyloxy-2,1-ethanediyl) ester

Oral LD50 >2000 mg/kg (rat)

41137-60-4 diurethandimethacrylate

Oral LD50 >5000 mg/kg (rat)

109-16-0 triethylen glycol dimethacrylate

Oral LD50 > 5000 mg/kg (rat)

Dermal LD50 > 2000 mg/kg (mouse)

· Primary irritant effect:

• on the skin: No irritant effect.

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• on the eye: No irritating effect. • Sensitization: No sensitizing effects known. • 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.

12 Ecological information

· Toxicity

Aquatic toxicity:

861437-11-82-Propenoic acid, (octahydro-4,7-methano-1H-indene-5 -diyl) bis(methyleneiminocarbonyloxy-2,1-ethanediyl) ester

EC50/48h 24.9 mg/l (daphnia)

109-16-0 triethylen glycol dimethacrylate

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

· 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.
- · Additional ecological information:

• General notes: Avoid transfer into the environment.

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

· 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.

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· 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 	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.

· Cancerogenity categories

· TLV (Threshold Limit Value established by ACGIH)

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: 2-Propenoic acid, (octahydro-4,7-methano-1H-indene-5 -diyl)bis(methyleneiminocarbonyloxy-2,1ethanediyl) ester triethylen glycol dimethacrylate

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Trade name: VENUS Pearl

· Hazard statements

- May cause an allergic skin reaction. • **Precautionary statements** Avoid breathing dust/fume/gas/mist/vapors/spray Wear protective gloves. Specific treatment (see on this label). Weak cartement of elething before reason
 - Wash contaminated clothing before reuse.
 - If skin irritation or rash occurs: Get medical advice/attention.
 - IF ON SKIN: Wash with plenty of water.

· 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.

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 06/03/2017 / 2
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
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
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)
LCS0: Lethal concentration, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPW: very Persistent and very Bioaccumulative
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
Ret: Recommended Exposure Limit
Ret: Recommended Exposure Limit
Ret: Recommended Exposure Limit
Ret: Recommended Exposure Limit
Kin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1: Skin sensitisation – Category 18

USA