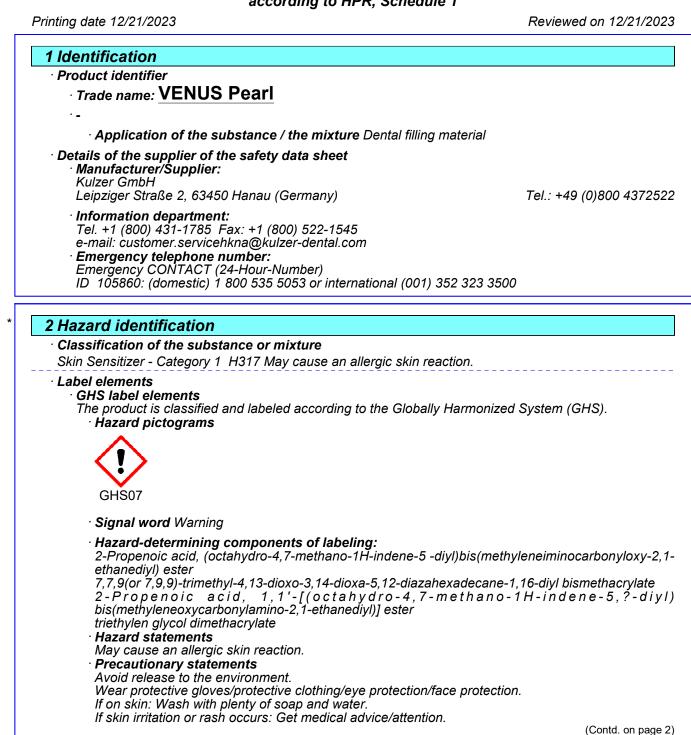


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## Safety Data Sheet according to HPR, Schedule 1





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### Trade name: VENUS Pearl

(Contd. of page 1) · Classification system • NFPA ratings for USA (scale 0-4) Health = 0 Fire = 1 Reactivity = 0· HMIS-Ratings (Scale 0-4) HEALTH 0 Health = 0FIRE 1 Fire = 1Reactivity = 0REACTIVITY 0 · Other hazards -3 Composition/Information on ingredients · Chemical characterization: Mixtures · Description: -· Dangerous components:

	861437-11-8	2-Propenoic acid, (octahydro-4,7-methano-1H-indene-5 -diyl) bis(methyleneiminocarbonyloxy-2,1-ethanediyl) ester	<i>≥</i> 5- <i>≤</i> 25% w/w *
		Skin Sensitizer - Category 1, H317	
	72869-86-4	7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane- 1,16-diyl bismethacrylate	≥1-≤10% w/w *
		Skin Sensitizer - Category 1B, H317	
	945656-78-0	2-Propenoic acid, 1,1'-[(octahydro-4,7-methano-1H-indene-5,?-diyl) bis(methyleneoxycarbonylamino-2,1-ethanediyl)] ester	≥1-≤10% w/w *
		Skin Sensitizer - Category 1, H317	
Γ	109-16-0	triethylen glycol dimethacrylate	<i>≥</i> 1-≤5% w/w *
		Skin Sensitizer - Category 1B, H317	
	* Actual co	oncentration ranges are withheld as a trade secret.	

· 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.

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### Trade name: VENUS Pearl

· 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

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.

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• **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. Not required. · Additional information: The lists that were valid during the creation were used as basis. • Exposure controls Personal protective equipment General protective and hygienic measures Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. · Breathing equipment: Not required. · Protection of hands: If skin contact cannot be avoided, protective gloves are recommended to avoid possible sensitization. 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: Not absolutely necessary. · Body protection: Light weight protective clothing 9 Physical and chemical properties Information on basic physical and chemical properties **General Information** 

 • General Information

 • Appearance:

 • Form:
 Pasty

 • Color:
 Different according to coloring

 • Odor:
 Odorless

 • Odor threshold:
 Not determined.

 • pH-value:
 Not determined.

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	(Contd. of page
Change in condition Melting point/Melting range: Boiling point/Boiling range:	undetermined undetermined
· Flash point:	>100 °C (>212 °F)
· Flammability (solid, gaseous)	Not applicable.
· Decomposition temperature:	Not determined.
· Ignition temperature:	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.
<ul> <li>Density at 20 °C (68 °F):</li> <li>Relative density</li> <li>Vapor density</li> <li>Evaporation rate</li> </ul>	2,1 g/cm <sup>3</sup> (17,5245 lbs/gal) Not determined. Not determined. Not determined.
• Solubility in / Miscibility with • Water:	Not miscible or difficult to mix
· Partition coefficient (n-octanol/wa	ter): Not determined.
<ul> <li>Viscosity:</li> <li>dynamic:</li> <li>kinematic:</li> </ul>	Not determined. Not determined.
· 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

· Additional information: -

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	te toxi	
		0 values that are relevant for classification:
	k	2-Propenoic acid, (octahydro-4,7-methano-1H-indene-5 -diy bis(methyleneiminocarbonyloxy-2,1-ethanediyl) ester
Oral		>2.000 mg/kg (rat)
72869-8	36-4 7, bi	7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-di smethacrylate
Oral	LD50	>5.000 mg/kg (rat) (OECD 401)
Dermal	LD50	>2.000 mg/kg (rat) (OECD 402)
		Amorphous silica
		>5.000 mg/kg (rat) (OECD 401)
		>5.000 mg/kg (rabbit)
		hylen glycol dimethacrylate
Oral	LD50	8.300 mg/kg (rat) weight of evidence
Dermal	LD50	>2.000 mg/kg (mouse)
		benzone
Oral	LD50	>12.800 mg/kg (rat) (OECD 401)
Dermal	LD50	>16.000 mg/kg (rabbit) (OECD 402)
· S	on ťl on tl <sup>·</sup> ensitiz	<i>r irritant effect: he skin:</i> No irritant effect. <b>he eye:</b> No irritating effect. zation: No sensitizing effects known. I <b>toxicological information:</b>
· C	arcino	ogenic categories
	·IARC	C (International Agency for Research on Cancer)
None of	the ing	gredients is listed.
	·NTP	(National Toxicology Program)
None of		gredients is listed.
		roductive toxicity Based on available data, the classification criteria are not met.

12 Ecologica	al 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) Mitteilung Bayerindustry (mail v. 25.10.2007 v. Fr. Wisselink)
	(Contd. on page 7)



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	(Contd. of page 6)
	7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate
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)
112945-52-5	Amorphous silica
LC50/96h	>10.000 mg/l (fish) (OECD 203)
EC50 / 24h	>1.000 mg/l (daphnia)
109-16-0 trie	ethylen glycol dimethacrylate
EC50/21d	51,9 mg/L (daphnia) (OECD 211)
LC50/96h	16,4 mg/l (fish) (OECD 203)
NOEC / 21d	32 mg/l (daphnia) (OECD 211)
ErC50 / 72 h	>100 mg/l (algae) (OECD 201)
NOEC / 72h	18,6 mg/l (algae) (OECD 201)
EbC50 / 72h	72,8 mg/l (algae) (OECD 201)
131-57-7 Ox	ybenzone
EC50/48h	1,87 mg/l (daphnia) (OECD 202)
LC50/96h	3,8 mg/l (fish) (OECD 203)
ErC50 / 72 h	0,67 mg/l (algae) (OECD 201)
NOEC / 72h	0,18 mg/l (algae) (OECD 201)
NOEC / 96h	0,72 mg/l (fish) (OECD 203)
NOEC / 48h	1,15 mg/l (daphnia) (OECD 202)
Persistence	and degradability
	levant information available.
	7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate
	ility 22 % /28d (not defined) (OECD 301B; ISO/ 9439/ EEC 92/69/V, C.4-C)
	ethylen glycol dimethacrylate
-	ility 85 % /28d (not defined) (OECD 301B; ISO/ 9439/ EEC 92/69/V, C.4-C)
131-57-7 Ox	ybenzone
biodegradab	ility 60-70 % /28d (not defined)
· Behavior in	environmental systems:
· Bioaccur	nulative potential
131-57-7 Ox	ybenzone
	ation factor (BCF) >33-<160 (fish) (OECD 305)
Additional e General I Results of F PBT: Not	in soil No further relevant information available. cological information: notes: Avoid transfer into the environment. 'BT and vPvB assessment applicable.
· VPVB: NO	of applicable. (Contd. on page 8)
	- CA



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Printing date 12/21/2023 Reviewed on 12/21/2023 Trade name: VENUS Pearl (Contd. of page 7) 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. 14 Transport information · UN-Number · DOT/TDG, ADR, ADN, IMDG, IATA Void · UN proper shipping name DOT/TDG, ADN, IMDG, IATA Void ADR Void Transport hazard class(es) · DOT, ADR, ADN, IMDG, IATA · Class Void Packing group · DOŤ/ŤDG, ADR, IMDG, IATA Void · Environmental hazards: • Marine pollutant: No · Special precautions for user Not applicable. · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. · Transport/Additional information: · UN "Model Regulation": Void

#### 15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara

#### SARA Section 355 (extremely hazardous substances)

None of the ingredients is listed.

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· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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<ul> <li>Relevant phrases         <ul> <li>Relevant phrases</li> <li>H317 May cause an allergic skin reaction.</li> </ul> </li> <li>Date of the latest revision of the safety data sheet 12/21/2023</li> <li>Abbreviations and acronyms:         <ul> <li>IMDG: International Maritime Code for Dangerous Goods</li> <li>DOT: US Department of Transportation</li> <li>IATA: International Air Transport Association</li> <li>ELINCCS: European Inventory of Existing Commercial Chemical Substances</li> <li>CAS: Chemical Abstracts Service (division of the American Chemical Society)</li> <li>NFPA: National Fire Protection Association (USA)</li> <li>HMIS: Hazardous Materials Identification System (USA)</li> <li>LC50: Lethal concentration, 50 percent</li> <li>LD50: Lethal concentration, 50 percent</li> <li>PBT: Persistent, Bioaccumulative and Toxic</li> <li>vPVB: very Persistent and very Bioaccumulative</li> </ul> </li> </ul>	These data are l	pased on our present knowledge. However, they shall not constitute a guarantee for features and shall not establish a legally valid contractual relationship.	aı
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