SAFETY DATA SHEETS

This SDS packet was issued with item: 074561346

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).

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 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 075461007 075461411

Safety Data Sheet

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| Printing date 07/15/2013 | Reviewed on 07/12/2013 |
|---|--|
| 1 Identification | |
| · Product identifier | |
| Trade name: VENUS Pearl | |
| · Relevant identified uses of the substance or mix | xture and uses advised against |
| No further relevant information available. | |
| Application of the substance / the preparation | n Dental filling material |
| Details of the supplier of the safety data sheet Manufacturer/Supplier: Heraeus Kulzer GmbH Grüner Weg 11, D-63450 Hanau | Tel.: 0800 437252 |
| Information department: USA: Marc Henn Tel. +1 (574) 2995444 / Fax: +1 (574) 2912542 | |
| e-mail: marć.henn@kulzer-dental.com • Emergency telephone number: Call "Poisoning Emergency Center Berlin": +49 30 german language) | 9 30686 790 (24 hours, support in english an |
| 2 Upzard(a) identification | |
| 2 Hazard(s) identification · Classification of the substance or mixture | |
| Classification according to Directive 67/548/EEC Xi; Irritant R43: May cause sensitization by skin contact. Information concerning particular hazards fo The product has to be labelled due to the calcul guideline for preparations of the EU" in the latest Classification system: The classification was made according to the upon from company and literature data. | r human and environment: lation procedure of the "General Classification t valid version. |
| · Label elements | |
| Labelling according to EU guidelines: The product has been classified and marked in ad Hazardous Materials | ccordance with EU Directives / Ordinance o |
| · Code letter and hazard designation of produce | ct: |
| Xi Irritant | |
| Hazard-determining components of labeling: 2 - Propenoic acid, (octahydro-4 bis(methyleneiminocarbonyloxy-2,1-ethanediyl) | ,7-methano-1H-indene-5,?-diyl |
| Risk phrases: 43 May cause sensitization by skin contact. | |
| Safety phrases: 24 Avoid contact with skin. 37 Wear suitable gloves. | |
| On a sight lab align of a sufficient surger surgers | |
| Special labeling of certain preparations: Warning - contains substance not yet fully tested | 1 |



Safety Data Sheet acc. to OSHA HCS

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Printing date 07/15/2013

Reviewed on 07/12/2013

Trade name: VENUS Pearl

(Contd. of page 1)

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

Fire = 1

 $0 \quad 0 \quad \text{Reactivity} = 0$

· HMIS-Ratings (Scale 0-4)



· Other hazards -

| 3 Composition/information on ingredients |
|--|
| · Chemical characterization: Mixtures |
| |

· Description: -

Dangerous components:

| Bungeroue compensate. | |
|---|--------|
| 861437-11-8 2-Propenoic acid, (octahydro-4,7-methano-1H-indene-5,?-diyl) bis(methyleneiminocarbonyloxy-2,1-ethanediyl) ester Xi R43 R52/53 | 10-25% |
| Butyl-hydroxy-toluol N R50/53 | < 1% |
| Additional information For the wording of the listed risk 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
- 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.

(Contd. on page 3)

Safety Data Sheet acc. to OSHA HCS

Printing date 07/15/2013

Reviewed on 07/12/2013

Trade name: VENUS Pearl

(Contd. of page 2)

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- 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.
 - 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.

- For the permanent contact gloves made of the following materials are suitable: Natural rubber, NR
- Eye protection: Not absolutely necessary.

(Contd. on page 4)

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Safety Data Sheet acc. to OSHA HCS

Printing date 07/15/2013

Reviewed on 07/12/2013

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Trade name: VENUS Pearl (Contd. of page 3) · Body protection: Light weight protective clothing 9 Physical and chemical properties Information on basic physical and chemical properties General Information · Appearance: Form: Pasty Color: Different according to coloring · Odor: Odorless Not determined. · pH-value: Change in condition Melting point/Melting range: undetermined · Boiling point/Boiling range: > 250 °C (> 482 °F) > 165 °C (> 329 °F) · Flash point: · Ignition temperature: · Decomposition temperature: Not determined. Product is not selfigniting. Auto igniting: Product does not present an explosion hazard. · Danger of explosion: · Density at 20 °C (68 °F): 2.1 g/cm3 (17.525 lbs/gal) Solubility in / Miscibility with Water: Not miscible or difficult to mix · Viscosity: · dynamic: Not determined. · kinematic: Not determined. Other information No further relevant information available.

10 Stability and reactivity

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: · Primary irritant effect: on the skin: No irritant effect. on the eye: No irritating effect. · Additional toxicological information:

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

(Contd. on page 5)

Safety Data Sheet acc. to OSHA HCS

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(Contd. of page 4)

Trade name: VENUS Pearl

· NTP (National Toxicology Program)

None of the ingredients is listed.

12 Ecological information

Toxicity

- Aquatic toxicity: No further relevant information available.
- 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.
- · 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, 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 | Il of Not applicable. | |
| · Transport/Additional information: | - | |

(Contd. on page 6)



Safety Data Sheet acc. to OSHA HCS

Printing date 07/15/2013

Reviewed on 07/12/2013

Trade name: VENUS Pearl

(Contd. of page 5)

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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.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

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

R43 May cause sensitization by skin contact.

- R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
- R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
- · Department issuing MSDS: Safety department
- · Contact:

Dr. Thiele Tel.: (+49) 6181 35-3012 email: ruediger.thiele@heraeus.com

• * Data compared to the previous version altered.

Safety Data Sheet

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· Waste treatment methods

Recommendation

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- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.

| 4 Transport information | | |
|---|--------------------------|--|
| · 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 | Il of Not applicable. | |
| · Transport/Additional information: | - | |

(Contd. on page 6)



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