



# SAFETY DATA SHEET

page 1/6  
VINTAGE ZR  
OPAQUELINER PORCELAIN  
Printing date: April 3, 2020

## SECTION 1. Identification of the substance or mixture and of the supplier

- 1.1 Product identifier  
Trade Name:  
**VINTAGE ZR OPAQUELINER PORCELAIN**
- 1.2 Relevant identified uses of the substance or mixture and uses advised against  
Relevant identified uses: Dental material  
Uses advised against: No further data
- 1.3 Details of the supplier of the safety data sheet  
Company/Undertaking identification  
Manufacturer's Name: SHOFU DENTAL GmbH  
Address: An der Pönt 70, 40885 Ratingen, Germany  
Phone: +49 (0) 2102-8664-0  
Fax: +49 (0) 2102-8664-64  
E-Mail: info@shofu.de  
Section in Charge: Quality Management & Regulatory Affairs
- 1.4 Emergency Telephone Number  
+49-2102-8664-53 (SHOFU DENTAL GmbH) 24 hours / 7 days

## SECTION 2. Hazards identification

- 2.1 Classification of the substance or mixture  
CLASSIFICATION (EC 1272/2008)  
Not applicable.
- 2.2 Label elements  
LABEL IN ACCORDANCE WITH (EC) NO.1272/2008  
Void  
HAZARD-DETERMINING COMPONENTS OF LABELLING  
SIGNAL WORD  
Void  
HAZARD STATEMENTS  
Void  
PRECAUTIONARY STATEMENTS  
Void
- 2.3 Other hazards  
Results of PBT and vPvB assessment  
PBT: Not applicable.  
vPvB: Not applicable.

## SECTION 3. Composition/information on ingredients

- 3.1 Chemical characterization: Mixtures
- 3.2 Description: Mixture of substances listed below with nonhazardous additions.
- 3.3 Dangerous components: Void  
Glycerin [Cas No.56-81-5, EINECS 200-289-5]  
Propylene Glycol [Cas No.57-55-6, EINECS 200-338-0]

(Contd. on page2)



# SAFETY DATA SHEET

page 2/6  
VINTAGE ZR  
OPAQUELINER PORCELAIN  
Printing date: April 3, 2020

3.4 Additional information: For the wording of the listed risk phrases refer to section 2

(Contd. of page1)

## SECTION 4. First-aid measures

### 4.1 Description of first aid measures

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. If eye irritation persists, get medical advice/attention.

Skin contact: Wash immediately with soap and plenty of water. If on skin, skin irritation, get medical advice/attention.

Ingestion: Rinse mouth and seek medical advice if necessary.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

### 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

### 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

## SECTION 5. Fire-fighting measures

### 5.1 Extinguishing Media:

Water, Foam, CO<sub>2</sub>, Powder, Dry sand

### 5.2 Special hazards arising from the substance or mixture:

In case of fire, irritation gases and fumes may emit.

### 5.3 Advice for firefighters:

Wear fire protective cloth and self-contained breathing apparatus, if necessary.

## SECTION 6. Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures:

Avoid contact with eyes and skin.

### 6.2 Environmental Precautions:

No special measures required.

### 6.3 Methods and material for containment and cleaning Up:

Wipe up and discard in a stable container.

### 6.4 Reference to other section:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## SECTION 7. Handling and storage

### 7.1 Precautions for safe handling:

Use in accordance with instruction. In case of grinding and polishing, wear dust mask and safety glasses, and using dust respirator and local exhaust.

### 7.2 Conditions for safe storage, including any incompatibilities:

Store in a cool, dry and dark place with lid closed, and away from food and beverages.

### 7.3 Specific end use(s):

No further relevant information available.

(Contd. on page3)



# SAFETY DATA SHEET

(Contd. of page2)

## SECTION 8. Exposure controls/personal protection

### 8.1 Control parameters:

Exposure limits:

Component		ACGIH (TLV)
Glycerin	TWA: 10 mg/m <sup>3</sup> 8 hr (mist only)	TWA 10 mg/m <sup>3</sup> (Glycerin mist)
Propylene Glycol	STEL: 450 ppm 15 min STEL: 1422 mg/m <sup>3</sup> 15 min STEL: 30 mg/m <sup>3</sup> 15 min TWA: 150 ppm 8 hr TWA: 474 mg/m <sup>3</sup> 8 hr TWA: 10 mg/m <sup>3</sup> 8 hr	

### 8.2 Exposure controls:

Respiratory Protection:

Local exhaust may be required.

Skin Protection: Hand Protection

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

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/the chemical mixture.

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

· 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 goggles

## SECTION 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance/Odor/Colour: Viscous, odorless paste

Odour threshold Not determined.

pH Not determined.

(Contd. on page4)

Version Number 5

Revision date: April 1, 2020



# SAFETY DATA SHEET

page 4/6  
VINTAGE ZR  
OPAQUELINER PORCELAIN  
Printing date: April 3, 2020

(Contd. of page3)

Melting point/freezing point	Not determined.
Boiling Point:	Not determined.
Flash point:	Not determined.
Evaporation rate	Not determined.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	Not determined.
Vapour pressure	Not determined.
Vapour density	Not determined.
Relative Density:	≈ 2 (water=1)
Solubility: water solubility	Liquid content is soluble, solid contents are not soluble.
Partition coefficient: n-octanol/water	Not determined.
Auto-ignition temperature	Not determined.
Decomposition temperature	Not determined.
Viscosity	Not determined.
Explosive properties	Not applicable.
Oxidising properties	Not applicable.
9.2 Other information	
No further relevant information available.	

## SECTION 10. Stability and reactivity

- 10.1 Reactivity:  
No further relevant information available.
- 10.2 Chemical stability:  
Stable under normal temperatures and pressures.
- 10.3 Possibility of hazardous reactions:  
No dangerous reactions known.
- 10.4 Condition to Avoid:  
No further relevant information available.
- 10.5 Incompatible materials:  
No further relevant information available.
- 10.6 Hazardous Decomposition Products:  
None under normal conditions of storage and use.

## SECTION 11. Toxicological information

- 11.1 Information on toxicological effects:
- |                   |                |        |      |                             |
|-------------------|----------------|--------|------|-----------------------------|
| Acute toxicity:   | Glycerin; Oral | rat    | LD50 | 12600 mg/kg                 |
|                   | Dermal         | rabbit | LD50 | > 10 g/kg                   |
|                   | Inhalation     | rat    | LC50 | > 570 mg/m <sup>3</sup> /1H |
| Propylene Glycol; | Oral           | rat    | LD50 | 20 g/kg                     |
|                   | Dermal         | rabbit | LD50 | 20800 mg/kg                 |
- Skin corrosion/irritation: Based on available data, the classification criteria are not met.
- Eye damage/irritation: Based on available data, the classification criteria are not met.

(Contd. on page5)



# SAFETY DATA SHEET

page 5/6  
VINTAGE ZR  
OPAQUELINER PORCELAIN  
Printing date: April 3, 2020

(Contd. of page4)

Sensitization to the respiratory tract: Based on available data, the classification criteria are not met.  
Skin sensitization: Based on available data, the classification criteria are not met.  
Germ cell mutagenicity/Genotoxicity: Based on available data, the classification criteria are not met.  
Carcinogenicity: Based on available data, the classification criteria are not met.  
Reproductive toxicity: Based on available data, the classification criteria are not met.  
Effects on or via lactation: Lack of data.  
Specific target organ toxicity (single exposure): Based on available data, the classification criteria are not met.  
Specific target organ toxicity (repeated exposure): Based on available data, the classification criteria are not met.  
Aspiration hazard: Based on available data, the classification criteria are not met.

## SECTION 12. Ecological information

- 12.1 Toxicity:  
No further relevant information available.
- 12.2 Persistence and degradability:  
No further relevant information available.
- 12.3 Bioaccumulative potential:  
No further relevant information available.
- 12.4 Mobility in soil:  
No further relevant information available.
- 12.5 Results of PBT and vPvB assessment:  
Not applicable.
- 12.6 Other adverse effects:  
No further relevant information available.

## SECTION 13. Disposal considerations

- 13.1 Waste treatment methods:  
Dispose of contents/container to in accordance with local/regional/national/international regulations.

## SECTION 14. Transport information

- 14.1 UN number: Void
- 14.2 UN proper shipping name: Void
- 14.3 Transport hazard class(es): Void
- 14.4 Packing group: Void
- 14.5 Environmental hazards: No further relevant information available.
- 14.6 Special precautions for user: Not applicable.
- 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:  
Not applicable.

(Contd. on page6)



# SAFETY DATA SHEET

page 6/6  
VINTAGE ZR  
OPAQUELINER PORCELAIN  
Printing date: April 3, 2020

(Contd. of page5)

## SECTION 15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

- EU REGULATIONS: See Section 2
- Other regulations, limitations and prohibitive regulations:  
The product is a medical device according to the EC-directive 93/42/EEC.

15.2 Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

## SECTION 16. Other information

This product is intended for use by dental professionals. (instrument/material)

Abbreviations and acronyms:

- EINESC: European Inventory of Existing Commercial Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative



# SAFETY DATA SHEET

page 1/5  
VINTAGE ZR  
PORCELAIN POWDER  
Printing date: April 1, 2020

## SECTION 1. Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Trade Name:

**VINTAGE ZR PORCELAIN "POWDER" {Margin (Margin/Effect)/Body (Opaque Dentin/Body/Opal Porcelain/Opal Effect/Enamel Effect/Opal AQUA/Cervical/Color Effect/Cervical Trans/Correction) Correction(Gum)Uni-Layer}**

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Dental material

Uses advised against: No further data

### 1.3 Details of the supplier of the safety data sheet

Company/Undertaking identification

Manufacturer's Name: SHOFU DENTAL GmbH

Address: An der Pönt 70, 40885 Ratingen, Germany

Phone: +49 (0) 2102-8664-0

Fax: +49 (0) 2102-8664-64

E-Mail: info@shofu.de

Section in Charge: Quality Management & Regulatory Affairs

### 1.4 Emergency Telephone Number

+49-2102-8664-53 (SHOFU DENTAL GmbH) 24 hours / 7 days

## SECTION 2. Hazards identification

### 2.1 Classification of the substance or mixture

CLASSIFICATION (EC 1272/2008)

Not applicable.

### 2.2 Label elements

LABEL IN ACCORDANCE WITH (EC) NO.1272/2008

Void

HAZARD-DETERMINING COMPONENTS OF LABELLING

SIGNAL WORD

Void

HAZARD STATEMENTS

Void

PRECAUTIONARY STATEMENTS

Void

### 2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

## SECTION 3. Composition/information on ingredients

### 3.1 Chemical characterization: Mixtures

### 3.2 Description: Mixture of substances listed below with nonhazardous additions.

(Contd. on page2)



# SAFETY DATA SHEET

page 2/5  
VINTAGE ZR  
PORCELAIN POWDER  
Printing date: April 1, 2020

(Contd. of page1)

- 3.3 Dangerous components: Void  
Ceramic materials
- 3.4 Additional information: For the wording of the listed risk phrases refer to section 2.

## SECTION 4. First-aid measures

- 4.1 Description of first aid measures
  - Eye contact: Rinse cautiously with water for several minutes. If eye irritation persists, get medical advice/attention.
  - Skin contact: Rinse with water.
  - Ingestion: Rinse mouth and seek medical advice if necessary.
  - Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- 4.2 Most important symptoms and effects, both acute and delayed  
No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed  
No further relevant information available.

## SECTION 5. Fire-fighting measures

- 5.1 Extinguishing Media:  
The product is not flammable.
- 5.2 Special hazards arising from the substance or mixture:  
No further relevant information available.
- 5.3 Advice for firefighters:  
No further relevant information available.

## SECTION 6. Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures:  
Don't breathe dust.
- 6.2 Environmental Precautions:  
No special measures required.
- 6.3 Methods and material for containment and cleaning up:  
Sweep and wipe up.
- 6.4 Reference to other section:  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## SECTION 7. Handling and storage

- 7.1 Precautions for safe handling:  
Use in accordance with instruction. In case of grinding and polishing, wear dust mask and safety glasses, and using dust respirator and local exhaust.
- 7.2 Conditions for safe storage, including any incompatibilities:  
Store in a cool and dry conditions with lid tightly closed.
- 7.3 Specific end use(s):  
No further relevant information available.

(Contd. on page3)





# SAFETY DATA SHEET

page 3/5  
VINTAGE ZR  
PORCELAIN POWDER  
Printing date: April 1. 2020

(Contd. of page2)

## SECTION 8. Exposure controls/personal protection

### 8.1 Control parameters:

Ingredients 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.

### 8.2 Exposure controls:

Respiratory Protection:

Dust mask

Skin Protection: Hand Protection

Not required.

· 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.

· 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.

Eye Protection: Safety goggles

## SECTION 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance/Odor/Colour:	Odorless powder
Odour threshold	Not determined.
pH	Not determined.
Melting point/freezing point	Not determined.
Boiling Point:	Not determined.
Flash point:	Not determined.
Evaporation rate	Not determined.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	Not determined.
Vapour pressure	Not determined.
Vapour density	Not determined.
Relative Density:	≈ 2.2 (water=1)
Solubility: water solubility	Insoluble
Partition coefficient: n-octanol/water	Not determined.
Auto-ignition temperature	Not determined.
Decomposition temperature	Not determined.
Viscosity	Not determined.
Explosive properties	Not applicable.
Oxidising properties	Not applicable.

### 9.2 Other information

No further relevant information available.

(Contd. on page4)



# SAFETY DATA SHEET

page 4/5  
VINTAGE ZR  
PORCELAIN POWDER  
Printing date: April 1, 2020

(Contd. of page3)

## SECTION 10. Stability and reactivity

- 10.1 Reactivity:  
No further relevant information available.
- 10.2 Chemical stability:  
Stable under normal temperatures and pressures.
- 10.3 Possibility of hazardous reactions:  
No dangerous reactions known.
- 10.4 Condition to Avoid:  
No further relevant information available.
- 10.5 Incompatible materials:  
No further relevant information available.
- 10.6 Hazardous Decomposition Products:  
None under normal conditions of storage and use.

## SECTION 11. Toxicological information

- 11.1 Information on toxicological effects:
- |   |   |
|---|---|
| Acute toxicity:                                     | Based on available data, the classification criteria are not met. |
| Skin corrosion/irritation:                          | Based on available data, the classification criteria are not met. |
| Eye damage/irritation:                              | Based on available data, the classification criteria are not met. |
| Sensitization to the respiratory tract:             | Based on available data, the classification criteria are not met. |
| Skin sensitization:                                 | Based on available data, the classification criteria are not met. |
| Germ cell mutagenicity/Genotoxicity:                | Based on available data, the classification criteria are not met. |
| Carcinogenicity:                                    | Based on available data, the classification criteria are not met. |
| Reproductive toxicity:                              | Based on available data, the classification criteria are not met. |
| Effects on or via lactation:                        | Lack of data.   |
| Specific target organ toxicity (single exposure):   | Based on available data, the classification criteria are not met. |
| Specific target organ toxicity (repeated exposure): | Based on available data, the classification criteria are not met. |
| Aspiration hazard:                                  | Based on available data, the classification criteria are not met. |

## SECTION 12. Ecological information

- 12.1 Toxicity:  
No further relevant information available.
- 12.2 Persistence and degradability:  
No further relevant information available.
- 12.3 Bioaccumulative potential:  
No further relevant information available.
- 12.4 Mobility in soil:  
No further relevant information available.
- 12.5 Results of PBT and vPvB assessment:  
Not applicable.

(Contd. on page5)



# SAFETY DATA SHEET

page 5/5  
VINTAGE ZR  
PORCELAIN POWDER  
Printing date: April 1, 2020

(Contd. of page4)

12.6 Other adverse effects:  
No further relevant information available.

## SECTION 13. Disposal considerations

13.1 Waste treatment methods:  
Dispose of contents/container to in accordance with local/regional/national/international regulations.

## SECTION 14. Transport information

14.1 UN number: Void  
14.2 UN proper shipping name: Void  
14.3 Transport hazard class(es): Void  
14.4 Packing group: Void  
14.5 Environmental hazards: No further relevant information available.  
14.6 Special precautions for user: Not applicable.  
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:  
Not applicable.

## SECTION 15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:  
• EU REGULATIONS: See Section 2  
• Other regulations, limitations and prohibitive regulations:  
The product is a medical device according to the EC-directive 93/42/EEC.  
15.2 Chemical safety assessment:  
A Chemical Safety Assessment has not been carried out.

## SECTION 16. Other information

This product is intended for use by dental professionals. (instrument/material)

Abbreviations and acronyms:

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative



# SAFETY DATA SHEET

page 1/6  
VINTAGE AL/ZR  
OPAQUELINER LIQUID  
Printing date: April 3, 2020

## SECTION 1. Identification of the substance or mixture and of the supplier

- 1.1 Product identifier  
Trade Name:  
**VINTAGE AL/ZR OPAQUELINER LIQUID**
- 1.2 Relevant identified uses of the substance or mixture and uses advised against  
Relevant identified uses: Dental material  
Uses advised against: No further data
- 1.3 Details of the supplier of the safety data sheet  
Company/Undertaking identification  
Manufacturer's Name: SHOFU DENTAL GmbH  
Address: An der Pönt 70, 40885 Ratingen, Germany  
Phone: +49 (0) 2102-8664-0  
Fax: +49 (0) 2102-8664-64  
E-Mail: info@shofu.de  
Section in Charge: Quality Management & Regulatory Affairs
- 1.4 Emergency Telephone Number  
+49-2102-8664-53 (SHOFU DENTAL GmbH) 24 hours / 7 days

## SECTION 2. Hazards identification

- 2.1 Classification of the substance or mixture  
CLASSIFICATION (EC 1272/2008)  
Not applicable.
- 2.2 Label elements  
LABEL IN ACCORDANCE WITH (EC) NO.1272/2008  
Void  
HAZARD-DETERMINING COMPONENTS OF LABELLING  
SIGNAL WORD  
Void  
HAZARD STATEMENTS  
Void  
PRECAUTIONARY STATEMENTS  
Void
- 2.3 Other hazards  
Results of PBT and vPvB assessment  
PBT: Not applicable.  
vPvB: Not applicable.

## SECTION 3. Composition/information on ingredients

- 3.1 Chemical characterization: Mixtures
- 3.2 Description: Mixture of substances listed below with nonhazardous additions.
- 3.3 Dangerous components: Void  
Glycerin [Cas No.56-81-5, EINECS 200-289-5]  
Propylene Glycol [Cas No.57-55-6, EINECS 200-338-0]

(Contd. on page2)



# SAFETY DATA SHEET

page 2/6  
VINTAGE AL/ZR  
OPAQUELINER LIQUID  
Printing date: April 3, 2020

3.4 Additional information: For the wording of the listed risk phrases refer to section 2

(Contd. of page1)

## SECTION 4. First-aid measures

### 4.1 Description of first aid measures

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. If eye irritation persists, get medical advice/attention.

Skin contact: Wash immediately with soap and plenty of water. If on skin, skin irritation, get medical advice/attention.

Ingestion: Rinse mouth and seek medical advice if necessary.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

### 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

### 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

## SECTION 5. Fire-fighting measures

### 5.1 Extinguishing Media:

Water, Foam, CO<sub>2</sub>, Powder, Dry sand

### 5.2 Special hazards arising from the substance or mixture:

In case of fire, irritation gases and fumes may emit.

### 5.3 Advice for firefighters:

Wear fire protective cloth and self-contained breathing apparatus, if necessary.

## SECTION 6. Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures:

Avoid contact with eyes and skin.

### 6.2 Environmental Precautions:

No special measures required.

### 6.3 Methods and material for containment and cleaning Up:

Wipe up and discard in a stable container.

### 6.4 Reference to other section:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## SECTION 7. Handling and storage

### 7.1 Precautions for safe handling:

Use in accordance with instruction. In case of grinding and polishing, wear dust mask and safety glasses, and using dust respirator and local exhaust.

### 7.2 Conditions for safe storage, including any incompatibilities:

Store in a cool, dry and dark place with lid closed, and away from food and beverages.

### 7.3 Specific end use(s):

No further relevant information available.

(Contd. on page3)



# SAFETY DATA SHEET

(Contd. of page2)

## SECTION 8. Exposure controls/personal protection

### 8.1 Control parameters:

Exposure limits:

Component		ACGIH (TLV)
Glycerin	TWA: 10 mg/m <sup>3</sup> 8 hr (mist only)	TWA 10 mg/m <sup>3</sup> (Glycerin mist)
Propylene Glycol	STEL: 450 ppm 15 min STEL: 1422 mg/m <sup>3</sup> 15 min STEL: 30 mg/m <sup>3</sup> 15 min TWA: 150 ppm 8 hr TWA: 474 mg/m <sup>3</sup> 8 hr TWA: 10 mg/m <sup>3</sup> 8 hr	

### 8.2 Exposure controls:

Respiratory Protection:

Dust mask

Skin Protection: Hand Protection

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

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/the chemical mixture.

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

· 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 goggles

## SECTION 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance/Odor/Colour:

Colorless viscous liquid with sweet odor.

Odour threshold

Not determined.

pH

Not determined.

(Contd. on page4)

Version Number 5

Revision date: April 1, 2020



# SAFETY DATA SHEET

page 4/6  
VINTAGE AL/ZR  
OPAQUELINER LIQUID  
Printing date: April 3, 2020

(Contd. of page3)

Melting point/freezing point	Not determined.
Boiling Point:	> 100 °C
Flash point:	140 °C
Evaporation rate	Not determined.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	Not determined.
Vapour pressure	Not determined.
Vapour density	Not determined.
Relative Density:	1.22 (water=1)
Solubility: water solubility	Soluble
Partition coefficient: n-octanol/water	Not determined.
Auto-ignition temperature	Not determined.
Decomposition temperature	Not determined.
Viscosity	Not determined.
Explosive properties	Not applicable.
Oxidising properties	Not applicable.
9.2 Other information	
No further relevant information available.	

## SECTION 10. Stability and reactivity

- 10.1 Reactivity:  
No further relevant information available.
- 10.2 Chemical stability:  
Stable under normal temperatures and pressures.
- 10.3 Possibility of hazardous reactions:  
No dangerous reactions known.
- 10.4 Condition to Avoid:  
No further relevant information available.
- 10.5 Incompatible materials:  
No further relevant information available.
- 10.6 Hazardous Decomposition Products:  
None under normal conditions of storage and use.

## SECTION 11. Toxicological information

- 11.1 Information on toxicological effects:
- |                 |                   |            |        |      |                             |
|-----------------|-------------------|------------|--------|------|-----------------------------|
| Acute toxicity: | Glycerin;         | Oral       | rat    | LD50 | 12600 mg/kg                 |
|                 |                   | Dermal     | rabbit | LD50 | > 10 g/kg                   |
|                 |                   | Inhalation |        |      |                             |
|                 |                   |            | rat    | LC50 | > 570 mg/m <sup>3</sup> /1H |
|                 | Propylene Glycol; | Oral       | rat    | LD50 | 20 g/kg                     |
|                 |                   | Dermal     | rabbit | LD50 | 20800 mg/kg                 |
- Skin corrosion/irritation: Based on available data, the classification criteria are not met.
- Eye damage/irritation: Based on available data, the classification criteria are not met.

(Contd. on page5)



# SAFETY DATA SHEET

page 5/6  
VINTAGE AL/ZR  
OPAQUELINER LIQUID  
Printing date: April 3, 2020

(Contd. of page4)

Sensitization to the respiratory tract: Based on available data, the classification criteria are not met.  
Skin sensitization: Based on available data, the classification criteria are not met.  
Germ cell mutagenicity/Genotoxicity: Based on available data, the classification criteria are not met.  
Carcinogenicity: Based on available data, the classification criteria are not met.  
Reproductive toxicity: Based on available data, the classification criteria are not met.  
Effects on or via lactation: Lack of data.  
Specific target organ toxicity (single exposure): Based on available data, the classification criteria are not met.  
Specific target organ toxicity (repeated exposure): Based on available data, the classification criteria are not met.  
Aspiration hazard: Based on available data, the classification criteria are not met.

## SECTION 12. Ecological information

- 12.1 Toxicity:  
No further relevant information available.
- 12.2 Persistence and degradability:  
No further relevant information available.
- 12.3 Bioaccumulative potential:  
No further relevant information available.
- 12.4 Mobility in soil:  
No further relevant information available.
- 12.5 Results of PBT and vPvB assessment:  
Not applicable.
- 12.6 Other adverse effects:  
No further relevant information available.

## SECTION 13. Disposal considerations

- 13.1 Waste treatment methods:  
Dispose of contents/container to in accordance with local/regional/national/international regulations.

## SECTION 14. Transport information

- 14.1 UN number: Void
- 14.2 UN proper shipping name: Void
- 14.3 Transport hazard class(es): Void
- 14.4 Packing group: Void
- 14.5 Environmental hazards: No further relevant information available.
- 14.6 Special precautions for user: Not applicable.
- 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

(Contd. on page6)





# SAFETY DATA SHEET

page 6/6  
VINTAGE AL/ZR  
OPAQUELINER LIQUID  
Printing date: April 3, 2020

(Contd. of page5)

## SECTION 15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

- EU REGULATIONS: See Section 2
- Other regulations, limitations and prohibitive regulations:  
The product is a medical device according to the EC-directive 93/42/EEC.

15.2 Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

## SECTION 16. Other information

This product is intended for use by dental professionals. (instrument/material)

Abbreviations and acronyms:

- EINESC: European Inventory of Existing Commercial Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative



# SAFETY DATA SHEET

page 1/6  
VINTAGE  
MIXING LIQUID-HC  
Printing date: April 1, 2020

## SECTION 1. Identification of the substance/mixture and of the company/undertaking

- 1.1 Product identifier  
Trade Name:  
**VINTAGE MIXING LIQUID-HC**
- 1.2 Relevant identified uses of the substance or mixture and uses advised against  
Relevant identified uses: Dental material  
Uses advised against: No further data
- 1.3 Details of the supplier of the safety data sheet  
Company/Undertaking identification  
Manufacturer's Name: SHOFU DENTAL GmbH  
Address: An der Pönt 70, 40885 Ratingen, Germany  
Phone: +49 (0) 2102-8664-0  
Fax: +49 (0) 2102-8664-64  
E-Mail: info@shofu.de  
Section in Charge: Quality Management & Regulatory Affairs
- 1.4 Emergency Telephone Number  
+49-2102-8664-53 (SHOFU DENTAL GmbH) 24 hours / 7 days

## SECTION 2. Hazards identification

- 2.1 Classification of the substance or mixture  
CLASSIFICATION (EC 1272/2008)  
Not applicable.
- 2.2 Label elements  
LABEL IN ACCORDANCE WITH (EC) NO.1272/2008  
Void  
HAZARD-DETERMINING COMPONENTS OF LABELLING  
SIGNAL WORD  
Void  
HAZARD STATEMENTS  
Void  
PRECAUTIONARY STATEMENTS  
Void
- 2.3 Other hazards  
Results of PBT and vPvB assessment  
PBT: Not applicable.  
vPvB: Not applicable.

## SECTION 3. Composition/information on ingredients

- 3.1 Chemical characterization: Mixtures
- 3.2 Description: Mixture of substances listed below with nonhazardous additions.
- 3.3 Dangerous components: Void  
1,3-Butanediol [Cas No.107-88-0, EINECS 203-529-7] 1-5 %  
Water

(Contd. on page2)



# SAFETY DATA SHEET

page 2/6  
VINTAGE  
MIXING LIQUID-HC  
Printing date: April 1, 2020

3.4 Additional information: For the wording of the listed risk phrases refer to section 2

(Contd. on page1)

## SECTION 4. First-aid measures

### 4.1 Description of first aid measures

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. If eye irritation persists, get medical advice/attention.

Skin contact: Wash immediately with soap and plenty of water. If on skin, skin irritation, get medical advice/attention.

Ingestion: Rinse mouth and seek medical advice if necessary.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

### 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

### 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

## SECTION 5. Fire-fighting measures

### 5.1 Extinguishing Media:

Water, Foam, CO<sub>2</sub>, Powder, Dry sand

### 5.2 Special hazards arising from the substance or mixture:

In case of fire, irritation gases and fumes may emit.

### 5.3 Advice for firefighters:

Wear fire protective cloth and self-contained breathing apparatus, if necessary.

## SECTION 6. Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures:

Avoid contact with eyes and skin.

### 6.2 Environmental Precautions:

No special measures required.

### 6.3 Methods and material for containment and cleaning Up:

Wipe up and discard in a stable container.

### 6.4 Reference to other section:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## SECTION 7. Handling and storage

### 7.1 Precautions for safe handling:

Use in accordance with instruction. In case of grinding and polishing, wear dust mask and safety glasses, and using dust respirator and local exhaust.

### 7.2 Conditions for safe storage, including any incompatibilities:

Store in a cool, dry and dark place with lid closed, and away from food and beverages.

### 7.3 Specific end use(s):

No further relevant information available.

(Contd. on page3)



# SAFETY DATA SHEET

page 3/6  
VINTAGE  
MIXING LIQUID-HC  
Printing date: April 1, 2020

(Contd. on page2)

## SECTION 8. Exposure controls/personal protection

### 8.1 Control parameters:

Ingredients 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.

### 8.2 Exposure controls:

Respiratory Protection:

Dust mask

Skin Protection: Hand Protection

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

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/the chemical mixture.

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

· 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 goggles

## SECTION 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance/Odor/Colour:	Colorless viscous liquid with sweet odor.
Odour threshold	Not determined.
pH	Not determined.
Melting point/freezing point	Not determined.
Boiling Point:	≈ 100 °C
Flash point:	> 300 °C
Evaporation rate	Not determined.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	Not determined.
Vapour pressure	Not determined.
Vapour density	Not determined.

(Contd. on page4)



# SAFETY DATA SHEET

page 4/6  
VINTAGE  
MIXING LIQUID-HC  
Printing date: April 1, 2020

(Contd. on page3)

Relative Density:	1.01 (water=1)
Solubility: water solubility	Soluble.
Partition coefficient: n-octanol/water	Not determined.
Auto-ignition temperature	Not determined.
Decomposition temperature	Not determined.
Viscosity	Not determined.
Explosive properties	Not applicable.
Oxidising properties	Not applicable.

- 9.2 Other information  
No further relevant information available.

## SECTION 10. Stability and reactivity

- 10.1 Reactivity:  
No further relevant information available.
- 10.2 Chemical stability:  
Stable under normal temperatures and pressures.
- 10.3 Possibility of hazardous reactions:  
No dangerous reactions known.
- 10.4 Condition to Avoid:  
No further relevant information available.
- 10.5 Incompatible materials:  
No further relevant information available.
- 10.6 Hazardous Decomposition Products:  
None under normal conditions of storage and use.

## SECTION 11. Toxicological information

- 11.1 Information on toxicological effects:
- |                 |                 |        |        |      |             |
|-----------------|-----------------|--------|--------|------|-------------|
| Acute toxicity: | 1,3-Butanediol; | Oral   | rat    | LD50 | 18610 mg/kg |
|                 |                 | Dermal | rabbit | LD50 | > 20 g/kg   |
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- Eye damage/irritation: Based on available data, the classification criteria are not met.
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(Contd. on page5)



# SAFETY DATA SHEET

page 5/6  
VINTAGE  
MIXING LIQUID-HC  
Printing date: April 1, 2020

(Contd. on page4)

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- 12.4 Mobility in soil:  
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- 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:  
Not applicable.

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(Contd. on page6)



# SAFETY DATA SHEET

page 6/6  
VINTAGE  
MIXING LIQUID-HC  
Printing date: April 1, 2020

(Contd. on page5)

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