

## SAFETY DATA SHEETS

**This SDS packet was issued with item:**

076220529

**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).**

076220438 076220446 076220453 076220461 076220479 076220487 076220495 076220503 076220511 076220537  
076220545 076220552 076220560 076220578 076220586 076220594 076353932 076353940 076353957 076353965  
076353973 076353981 076353999 076354005 076354013 076354021 076354039 076354047 076354054 079704263  
079704266 079704269 079704275 079704281 079704293 273044901 273044902 273044903

## SAFETY DATA SHEET

**1. Identification of the substance or mixture and of the supplier***1.1 Product Name:***BEAUTIFIL II***1.2 Company /Undertaking identification*Manufacturer's Name: **SHOFU INC.**

Address: 11 Kamitakamatsu-cho, Fukuine, Higashiyama-ku, Kyoto 605-0983 ,JAPAN

Phone: +81-75-561-1112

Fax: +81-75-275-4795

Section in Charge: Quality Assurance Section

Date Prepared: 2014.9.16

*1.3 Emergency Telephone Number*

+81-75-561-1112

**2. Hazardous identification**

## GHS CLASSIFICATION

|                      |                                                     |                |
|----------------------|-----------------------------------------------------|----------------|
| HEALTH HAZARDS       | ACUTE TOXICITY-ORAL                                 | Not Classified |
|                      | SKIN CORROSION/IRRITATION                           | Not Classified |
|                      | EYE DAMAGE/IRRITATION                               | Not Classified |
|                      | SENSITIZATION-SKIN                                  | Not Classified |
| ENVIRONMENTAL HAZARD | HAZARDOUS TO THE AQUATIC ENVIRONMENT-ACUTE HAZARD   | Not Classified |
|                      | HAZARDOUS TO THE AQUATIC ENVIRONMENT-CHRONIC HAZARD | Not Classified |
|                      |                                                     |                |

The thing without mention is out of a classification object. Or cannot classify it.

## LABEL ELEMENTS

SYMBOL —

SIGNAL WORD —

HAZARD STATEMENTS —

## PRECAUTIONARY STATEMENTS

[Prevention]

Obtain special instruction before use.

Do not handle until all safety precautions have been read and understood.

Use personal protective equipment as required.

[Response]

Get medical advice/attention if you feel unwell.

[Storage]

Store in a cool and dark area.(Keep refrigerated when not in use)

[Disposal]

Dispose of contents and container in accordance with regulation.

**3. Composition/information on ingredients**

| <i>Composition</i>                                   | <i>%</i> |
|------------------------------------------------------|----------|
| Bis-GMA [Cas No.1565-94-2]                           | ≒ 7.5    |
| Triethylenglycol dimethacrylate [Cas No.109-16-0]    | < 5      |
| Aluminofluoro-borosilicate glass [Cas No.65997-18-4] | ≒ 70     |

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Al<sub>2</sub>O<sub>3</sub> [Cas No.1344-28-1]

DL-Camphorquinone [10373-78-1]

Others

Hazardous ingredients are not include.

**4.First-aid measures**

- 4.1 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.
- 4.2 Skin contact :** Wash with plenty of soap and water. If on skin, skin irritation, get medical advice/attention.
- 4.3 Ingestion :** Rinse mouth. If you feel un-well, get medical advice/attention.
- 4.4 Inhalation :** Remove victim to fresh air and keep at rest in a position comfortable for breathing. If symptom concerning breath goes out, call a POISON CENTER to doctor.

**5.Fire-fighting measures**

- 5.1 Suitable Extinguishing Media:** CO<sub>2</sub>, Dry chemical, Foam
- 5.2 Extinguishing Media Should not be used :** N/A
- 5.3 Special Exposure Hazards Arising:** In case of fire, do not breath fumes and gases. (Irritation gases and fumes may emit.)
- 5.4 Special Protective Equipment:** Wear fire protective cloth and self-contained breathing apparatus if necessary.

**6.Accidental release measures**

- 6.1 Personal Precautions:** N/A
- 6.2 Environmental Precautions:** Dispose according to local, state and federal regulations.
- 6.3 Methods for Cleaning Up:** Wipe up and discard in a suitable container.

**7.Handling and storage**

- 7.1 Handling:** Avoid inhalation of grindings and prolonged skin contact with uncured resin.
- 7.2 Storage:** Store in a cool and dark area.(Keep refrigerated when not in use)

**8.Exposure controls/personal protection**

- 8.1 Respiratory Protection:** Not required.(Use dust mask while grinding or finishing.)
- 8.2 Hand Protection:** Latex or rubber gloves
- 8.3 Eye Protection:** Safety goggles (May be required)
- 8.4 Skin Protection:** Not required.

**9.Physical and chemical properties**

- 9.1 Appearance/Odour/pH** Colored putty-like paste with sweet odor
- 9.2 Boiling Point/Boiling Range:** N/D
- 9.3 Melting Point/Melting Range:** N/D
- 9.4 Flash point:** N/D
- 9.5 Auto flammability:** N/D
- 9.6 Explosive Properties:** N/D
- 9.7 Oxidizing Properties:** N/D
- 9.8 Vapour Pressure:** N/D
- 9.9 Relative Density:** 2.25 (water=1)

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9.10 Solubility:      water solubility      Insoluble

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**10.Stability and reactivity**

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- |                          |                                                                                                                    |
|--------------------------|--------------------------------------------------------------------------------------------------------------------|
| 10.1 Stability:          | Stable under the normal condition.                                                                                 |
| 10.2 Reactivity:         | Polymerization will occur with heat, light.                                                                        |
| 10.3 Condition to avoid: | Visible light and high-temperature.<br>Keep away from source of ignition.(–electric discharge<br>and smoking etc.) |
| 10.4 Materials to avoid: | Strong oxidizing materials                                                                                         |

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**11.Toxicological information**

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No information

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**12.Ecological information**

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No information

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**13.Disposal considerations**

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Dispose of contents/container to in accordance with local/regional/national/international regulations (to be specified).

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**14.Transport information**

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Airline restriction information ; It doesn't correspond.  
UN No. ; It doesn't correspond.  
Sea restriction information ; It doesn't correspond.  
UN No. ; It doesn't correspond.

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**15.Regulatory information**

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Follow all regulations in your country.

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**16.Other information**

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



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

- 1.1 Product identifier  
Trade Name:  
**BEAUTIFIL II Enamel**
- 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 CORPORATION**  
Address: 1225 Stone Drive, San Marcos, CA 92078 USA  
Toll Free: 1-800-827-4638  
Phone: 760-736-3277  
Fax: 760-736-3276  
E-Mail: customer-service@shofu.com  
Section in Charge: Quality Management & Regulatory Affairs
- 1.4 Emergency Telephone Number  
For emergencies only. Call CHEMTREC: +1 703-741-5970 / 1-800-424-9300 (24 hours)

## SECTION 2. Hazards identification

- 2.1 GHS Classification  
It is not possible to classify it.
- 2.2 Label elements  
SYMBOL Void  
SIGNAL WORD Void  
HAZARD STATEMENTS Void
- PRECAUTIONARY STATEMENTS  
[Prevention]  
Do not handle until all safety precautions have been read and understood.  
[Response]  
Get medical advice/attention if you feel unwell.  
[Storage]  
Store in a cool and dark area.(Keep refrigerated when not in use)  
[Disposal]  
Dispose of contents and container in accordance with regulation.
- 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

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3.2 Description: -

3.3 Dangerous components: Void

Bis-GMA [Cas No.1565-94-2] 10-15 %

Triethylenglycol dimethacrylate [Cas No.109-16-0]

Aluminofluoro-borosilicate glass [Cas No.65997-18-4] 60-70 %

Pigments

Others

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. 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. Get medical advice/attention.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If symptom concerning breath goes out, call a POISON CENTER or doctor.

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:

CO<sub>2</sub>, Dry chemical, Foam, Dry sand

5.2 Special hazards arising from the substance or mixture:

In case of fire, do not breathe fumes and gases. (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:

Send to approved treatment/disposal company or dispose according to local, state and federal regulations.

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.

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## SECTION 7. Handling and storage

- 7.1 Precautions for safe handling:  
Avoid inhalation of grindings and prolonged skin contact with uncured resin.
- 7.2 Conditions for safe storage, including any incompatibilities:  
Store in a cool and dark area. (Keep refrigerated when not in use)
- 7.3 Specific end use(s):  
No further relevant information available.

## 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:  
Not required (use protective gas mask for organic gas, if necessary)
- 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:      | Semitransparent high viscosity paste |
| Odour threshold              | Not determined.                      |
| pH                           | Not determined.                      |
| Melting point/freezing point | Not determined.                      |
| Boiling Point:               | Not determined.                      |

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|                                              |                 |
|----------------------------------------------|-----------------|
| 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:                            | 1.9 (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.

## SECTION 10. Stability and reactivity

### 10.1 Reactivity:

Polymerization will occur with heat, light.

### 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:

Protect from exposure to the light.

Keep away from heat and direct sunlight.

### 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.                                                     |

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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.

## SECTION 15. Regulatory informati

Follow all regulations in your country.

## SECTION 16. Other information

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

Abbreviations and acronyms:

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

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