

## **SAFETY DATA SHEETS**

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

076342976

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

076342943

# MATERIAL SAFETY DATA SHEET

## 1. Identification of the Product and the Company

### 1.1 Product Name:

BeutiBond

### 1.2 Company /Undertaking identification

Manufacturer's Name: SHOFU INC.

Address: 11-Kamitakamatsu-Cho Fukunine Higashiyama ku Kyoto 605 ,JAPAN

Phone Number for Information: 81-75-561-1112

Signature of Preparer:

Date Prepared: 2008.10. 01

### 1.3 Emergency Telephone Number

81-75-561-1112

## 2. Composition/Information on Ingredients

Composition	Cas no.	%	Hazard type
Acetone	67-64-1	<50	F .Xi
BisGMA	1565-94-2	<20	
4MET	68183-31-3	<10	
TEGDMA	109-16-0	<5	
6MHPAc	141451-39-0	<5	
Pure water			
Others			

## 3. Hazardous Identification

3.1 Route of Entry: Inhalation: Possible Skin: Possible Ingestion: Possible

### 3.2 Health Hazard(Acute and Chronic)

Inhalation: Sore throat. Cough. Confusion. Headache. Dizziness.

Drowsiness. Nausea. Weakness.

skin: Dry skin.

Eyes: Redness. Pain. Blurred vision. Possible corneal damage.

Ingestion: Nausea. Vomiting (Further see Inhalation)

3.3 Carcinogenicity N/A

3.4 Hazard Designation: Highly Flammable preparation. Symbol is F  
Vapour/air mixture are explosive.

## 4. First Aid Measures

4.1 Eye contact : First rinse with plenty of water for several minutes, then take to a doctor

4.2 Skin contact : Wash immediately with soap and plenty of water.

4.3 Ingestion : Rinse mouth. Refer for medical attention.

4.4 Inhalation : Fresh air, rest. Refer for medical attention.

## 5. Fire-fighting Measures

5.1 Suitable Extinguishing Media: Powder, alcohol-resistsnt foam, Carbon dioxide.

5.2 Extinguishing Media Should not be used :

5.3 Special Exposure Hazards Arising: Irritation gases and fumes may emit.

5.4 Special Protective Equipment: Wear fire protective cloth and self-contained breathing apparatus if necessary.

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## 6. Accidental Release Measures

- 6.1 Personal Precautions:* See section 8.
- 6.2 Environmental Precautions:* Send to approved treatment/disposal company or 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:* Handle in a well ventilated place. Wear protective gloves, safety spectacles or face shield. (If necessary wear self-contained breathing apparatus.)  
Keep away from naked flames, sparks and sources of heat. No smoking.
- 7.2 Storage:* Store in a cool and dark fire proof area with container tightly closed.  
Separated from strong oxidants. (Keep refrigerated when not in use.)

## 8. Exposure Controls/Personal Protection

- 8.1 Exposure limits:* ACGIH TLV.  
Aceton [Cas No.67-64-1] 500ppm(TWA);750ppm(STEL)A4
- 8.2 Respiratory Protection:* Ventilation. Local exhaust.
- 8.3 Hand Protection:* Latex or rubber gloves
- 8.4 Eye Protection:* Safety spectacles
- 8.5 Skin Protection:* Not required (General working clothes.)

## 9. Physical And Chemical Properties

- 9.1 Appearance/Odour/pH* Pale yellow liquid with characteristic odor.
- 9.2 Boiling Point/Boiling Range:* N/A
- 9.3 Melting Point/Melting Range:* N/A
- 9.4 Flash point:* -15.0 °C(closed)
- 9.5 Auto flammability:* N/D
- 9.6 Explosive Properties:*
- 9.7 Oxidizing Properties:*
- 9.8 Vapour Pressure:* N/A
- 9.9 Relative Density:* 0.936 (water=1)
- 9.10 Solubility:* water solubility miscible

## 10. Stability And Reactivity

- 10.1 Condition to Avoid:* Visible light on liquid.  
Avoid excess heat, flame and other source of ignition.  
Separated from strong oxidants.
- 10.2 Materials to Avoid:* Strong oxidizing materials

## 11. Toxicological Information

- Effects of short-term exposure  
Inhalation of the vapor may cause headache and dizziness.
- Effects of long-term or repeated exposure  
Repeated or prolonged contact with skin may cause dermatitis.

## 12. Ecological Information

- The product should not be allowed to drain into sewers.

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**13. Disposal Conditions**

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Disposal in accordance with federal, state and local regulations.

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**14. Transport Information**

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UN Hazard Class:3/UN Packing Group: II  
UN NO.1090 (as Aceton)

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**15. Regulatory Information**

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**16. Other Information**

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Handling of this product exclusively by dental specialists according to instruction for use.



# SAFETY DATA SHEET

(according to 1907/2006/EC, Article 31)

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

### 1.1 Product identifier

Trade Name:

**BeutiBond**

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

No further relevant information available.

### 1.3 Application of the substance/the preparation

Dental material

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

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

### 1.5 Emergency Telephone Number

+49-2102-866410 (SHOFU DENTAL GmbH)

## 2. Hazards identification

Classification of the substance or mixture

CLASSIFICATION (67/548)

F;	Highly flammable
R11;	Highly flammable
Xi;	Irritating
R36;	Irritating to eyes.
R36/38;	Irritating to eyes and skin.
Xi;	Sensitising
R43;	May cause sensitisation by skin contact.
R66;	Repeated exposure may cause skin dryness or cracking.
R67;	Vapours may cause drowsiness and dizziness.

CLASSIFICATION (EC 1272/2008)

Flam.liq. 2	H225	Highly flammable liquid and vapour.
Eye Irrit. 2	H319	Causes serious eye irritation.
Skin Sens. 1	H317	May cause an allergic skin reaction.
	H318	Causes serious eye damage.
STOT SE 3	H366	May cause drowsiness or dizziness.

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



GHS02



GHS07

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## HAZARD-DETERMINING COMPONENTS OF LABELLING

Acetone  
Bis-GMA

SIGNAL WORD      Danger

## HAZARD STATEMENTS

H225      Highly flammable liquid and vapour.  
H319      Causes serious eye irritation.  
H317      May cause an allergic skin reaction.  
H318      Causes serious eye damage.  
H366      May cause drowsiness or dizziness.

## PRECAUTIONARY STATEMENTS

P202      Do not handle until all safety precautions have been read and understood.  
P210      Keep away from heat/sparks/open flames/hot surfaces.  
            - No smoking.  
P233      Keep container tightly closed.  
P261      Avoid breathing dust/fume/gas/mist/vapour s/spray.  
P264      Wash hands thoroughly after handling.  
P280      Wear protective gloves/protective clothing/eye protection/face protection.  
P332+P313  
            If skin irritation occurs: Get medical advice/attention.  
P305+P351+P338  
            IF IN EYES: Rinse cautiously with water for several minutes.  
            Remove contact lenses, if present and easy to do. Continue rinsing.

## OTHER HAZARDS

Results of PBT and vPvB assessment  
PBT:              Not applicable.  
vPvB:             Not applicable.

## 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:

Cas: 67-64-1 EINECS: 200-662-2	Acetone	≈ 50 %
	F R11, Xi R36, R66, R67	
	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336	
Cas: 1565-94-2 EINECS: 216-367-7	Bis-GMA	< 15 %
	Xi R36/38, Xi R43	
	Skin Sens. 1 H317 H318	

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

## 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 to 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.

## 5. Fire-fighting measures

### 5.1 Extinguishing Media:

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

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

Easily flammable liquid in room temp.

### 5.3 Advice for firefighters:

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

## 6. Accidental release measures

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

Avoid eye and skin contact.

### 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 suitable 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.

## 7. Handling and storage

### 7.1 Precautions for safe handling:

Handle in a well ventilated place.

Keep away from naked flames, sparks and sources of heat. No smoking.

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

Store in a cool and dark area with container tightly closed.

Separated from strong oxidants. (Keep refrigerated when not in use.)

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- 7.3 Specific end use(s):  
No further relevant information available

## 8. Exposure controls/personal protection

- 8.1 Control parameters:  
Exposure limits Acetone [Cas No.67-64-1]:  
-OSHA Permissible Exposure Limit (PEL): 1000 ppm (TWA)  
-ACGIH Threshold Limit Value (TLV): 500 ppm (TWA),  
750 ppm (STEL) A4 - not classifiable as a human carcinogen
- 8.2 Exposure controls:  
Respiratory Protection: Not required (use protective gas mask for organic gas, if necessary.)  
Hand Protection: Latex or rubber gloves  
Eye Protection: Safety goggles (May be required.)  
Skin Protection: Not required.

## 9. Physical and chemical properties

- 9.1 Information on basic physical and chemical properties  
Appearance/Odor/Colour: Pale yellow liquid with characteristic odor.  
Boiling Point: Not determined.  
Flash point: -15.0 °C (closed)  
Relative Density: 0.94 (water=1)  
Solubility: water solubility Soluble
- 9.2 Other information  
No further relevant information available.

## 10. Stability and reactivity

- 10.1 Reactivity:  
No further relevant information available.
- 10.2 Chemical stability:  
Stable under recommended storage conditions.
- 10.3 Possibility of hazardous reactions:  
No dangerous reactions known.
- 10.4 Condition to Avoid:  
Avoid direct sunlight, excess heat, flame and other source of ignition.
- 10.5 Incompatible materials:  
Strong oxidizing materials.
- 10.6 Hazardous Decomposition Products:  
None under normal conditions of storage and use.

## 11. Toxicological information

- 11.1 Information on toxicological effects:  
Acetone:

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Inhalation toxicity: rat LC50 75.8 mg/L  
Oral toxicity; rat LD50 > 5000 mg/kg  
Dermal toxicity; rabbit LD50 > 5000 mg/kg

## 12. Ecological information

- 12.1 Toxicity:  
Acetone:  
Fish toxicity: Fathead minnow; LC50/96H > 100 mg/L
- 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.

## 13. Disposal considerations

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

## 14. Transport information

- 14.1 UN number: 1090
- 14.2 UN proper shipping name: Acetone, solution
- 14.3 Transport hazard class(es): 3 Flammable liquids.
- 14.4 Packing group: II
- 14.5 Environmental hazards: No further relevant information available.
- 14.6 Special precautions for user: Warning: Flammable liquids.
- 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:  
Not applicable.

## 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.

## 16. Other information

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

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