

# MATERIAL SAFETY DATA SHEET

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

### 1.1 Product Name:

**BeutiBond**

### 1.2 Company /Undertaking identification

Manufacturer's Name: **SHOFU INC.**

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

Phone: +81- 75- 561- 1112

Fax: +81- 75- 561- 2273

Section in Charge: Quality Assurance Section

Date Prepared 2011.10.21

### 1.3 Emergency Telephone Number

+81- 75- 561- 1112

## 2. Hazardous identification

### GHS CLASSIFICATION

PHYSICAL HAZARDS	FLAMMABLE LIQUIDS	Category 2
	PYROPHORIC LIQUIDS	Not Classified
	CORROSIVE TO METALS	Not Classified
HEALTH HAZARDS	ACUTE TOXICITY- ORAL	Not Classified
	ACUTE TOXICITY- DERMAL	Not Classified
	ACUTE TOXICITY- INHALATION(VAPOURS)	Not Classified
	SKIN CORROSION/IRRITATION	Not Classified
	EYE DAMAGE/IRRITATION	Category 2A
	SENSITIZATION- RESPIRATORY	Category 1
	SENSITIZATION- SKIN	Category 1
	GERM CELL MUTAGENICITY	Not Classified
	CARCINOGENICITY	Not Classified
	TOXIC TO REPRODUCTION	Category 2
	SPECIFIC TARGET ORGAN SYSTEMC TOXICITY (SINGLE EXPOSURE)	Category 3(narcotic effects,respiratory tract irritation)
	SPECIFIC TARGET ORGAN SYSTEMC TOXICITY (REPEATED EXPOSURE)	Category 2(blood)
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

Danger

#### HAZARD STATEMENTS

Highly flammable liquid and vapor  
May cause allergic skin reaction  
Causes serious eye irritation

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May cause allergy or asthma symptoms or breathing difficulties if inhaled  
 May cause respiratory irritation, or May cause drowsiness and dizziness  
 Suspected of damaging fertility or unborn child  
 Warning May cause damage to organs through prolonged or repeated exposure (blood)

**HAZARD STATEMENTS****[Prevention]**

Obtain special instruction before use.

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

Wear protective gloves and eye/face protection.

In case of inadequate ventilation wear respiratory protection.

Do not breathe dust/fume/gas/mist/vapours/spray.

Do not eat, drink or smoke when using this product.

Keep away from ignition sources such as heat/sparks/open flames- No smoking

Ground/Bond container and receiving equipment.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing should not be allowed out of the workspace.

Keep container tightly closed.

Wash hands thoroughly after handling.

**[Response]**

If in eyes, rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do.

If eye irritation persists, get medical advice/attention.

If on skin, wash with plenty of soap and water. If on skin, skin irritation, get medical advice/attention.

If inhaled, 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.

If swallowed, rinse mouth. Get medical advice/attention.

**[Storage]**

Store container tightly closed in cool/well-ventilated place.

**[Disposal]**

Dispose of contents and container in accordance with regulation.

**3. Composition/information on ingredients**

<i>Composition</i>	<i>Hazard type</i>
Bis- GMA [Cas No.1565- 94- 2]	
TEGDMA [Cas No.109- 16- 0]	
Phosphonic acid monomer	
Carboxylic acid monomer	
Acetone [Cas No.67- 64- 1]	≈ 50 %
Water [Cas No.7732- 18- 5]	
Others	

**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 immediately with soap and plenty of water. If on skin, skin irritation, get medical advice/attention.

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- 4.3 *Ingestion* : Rinse mouth. 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*: Powder, Alcohol- resistsnt foam, Carbon dioxide.  
 5.2 *Extinguishing Media Should not be used*: N/A  
 5.3 *Special Exposure Hazards Arising*: Irritation gases and fumes may erit.  
 5.4 *Special Protective Equipment*: Wear fire protective cloth and self- contained breathing apparatus if necessary.

### 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 nccessary 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/D  
 9.3 *Melting Point/Melting Range*: N/D  
 9.4 *Flash point*: - 15.0 °C (closed)  
 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*: 0.936 (water=1)  
 9.10 *Solubility: water solubility*: Soluble

### 10. Stability and reactivity

- 10.1 *Stability*: Stable under recommended storage conditions.  
 10.2 *Reactivity*: Polymerization will occur with heat, light.  
 10.3 *Condition to avoid*: Visible light and high- temperature.  
 Keep away from source of ignition. (- electric discharge)

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and smoking etc.)

*10.4 Materials to avoid:*

Strong oxidizing materials

**11. Toxicological information***Acetone ;*

Acute toxicity : Emergency response guidebook

Vapors may cause dizziness or suffocation.

(Inhalation)	mouse	LCL0	110 g/m <sup>3</sup> / 1H
	tat	LCL0	16000 ppm/ 4H
	human	TCL0	500 ppm
(Oral)	mouse	LD50	3000 mg/kg
	rat	LD50	5800 mg/kg
(Dermal)	rabbit	LD50	20 g/kg

Irritant properties :

Inhalation or contact with material may irritate or burn skin and eyes.

Irritant properties to skin/eye.

(Skin)	rabbit	3950 ug ; SEVERE
	rabbit	100 mg/24H ; MODERATE
(Eye)	rabbit	395 mg open ; MLD
	rabbit	500 MG/24H ; MLD

Allergenic and sensitizing effects ; N/A

Chronic toxicity ;

Toxic : danger of serious damage to health by prolonged exposure through inhalation.

Carcinogenic effects ;

ACGIH- A4 : Not Classifiable as a Human Carcinogen.

Mutagenic effects ; N/A

Teratogenic effects ; N/A

Toxicity for reproduction ; N/A

**12. Ecological information**

The product should not be allowed to drain into sewers.

**13. Disposal considerations**

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

**14. Transport information**

UN Hazard Class:3/UN Packing Group: II

UN NO.1090 (as Aceton)

**15. Regulatory information**

Follow all regulations in your country.

**16. Other information**

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