



SAFETY DATA SHEET




page 1/7
BeutiBond

Printing date: January 30, 2023

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

- 1.1 Product identifier
Trade Name:
BeutiBond
- 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 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
- 1.4 Emergency Telephone Number
+81-75-561-1112

SECTION 2. Hazards identification

- 2.1 GHS Classification
- | | |
|---|--|
| PHYSICAL HAZARDS | |
| FLAMMABLE LIQUIDS | Category 2 |
| HEALTH HAZARDS | |
| ACUTE TOXICITY-ORAL | Category 4 |
| EYE DAMAGE/IRRITATION | Category 2B |
| SENSITIZATION-RESPIRATORY | Category 1 |
| SENSITIZATION-SKIN | Category 1 |
| TOXIC TO REPRODUCTION | Category 2 |
| SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (SINGLE EXPOSURE) | Category 3 (respiratory tract irritation, narcotic effects) |
| SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (REPEATED EXPOSURE) | Category 1 (central nervous system, respiratory organ, gastrointestinal tract) |
- 2.2 Label elements
- SYMBOL
- | | | |
|---|---|---|
|  |  |  |
| GHS02 | GHS07 | GHS08 |
- SIGNAL WORD: Danger
- HAZARD STATEMENTS
- Highly flammable liquid and vapor.



SAFETY DATA SHEET

page 2/7
BeautiBond

Printing date: January 30, 2023

Harmful if swallowed
May cause an allergic skin reaction.
Causes eye irritation.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause respiratory irritation.
May cause drowsiness and dizziness.
Suspected of damaging fertility or the unborn child.
Causes damage to organs through prolonged or repeated exposure (central nervous system, respiratory organ, gastrointestinal tract).

PRECAUTIONARY STATEMENTS

[Prevention]

Do not handle until all safety precautions have been read and understood.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Keep container tightly closed.
Avoid breathing dust/fume/gas/mist/vapours/spray.
Wash hands thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.

[Response]

IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
IF ON SKIN: Wash with plenty of water and soap.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Get medical advice/attention if you feel unwell.
If skin irritation or rash occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

[Storage]

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

[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

3.2 Ingredients and composition:



SAFETY DATA SHEET

page 3/7
BeautiBond

Printing date: January 30, 2023

Component	CAS-No	Weight %
Acetone	67-64-1	40-49
Water	—	
Bis-GMA	1565-94-2	
Phosphonic acid monomer	—	
TEGDMA	109-16-0	
Carboxylic acid monomer		
Others	—	

3.3 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 and seek medical advice if necessary.
- 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:

Foam, CO₂, Powder, Dry sand

5.2 Special hazards arising from the substance or mixture:

Easily flammable liquid in room temp.
Fire may produce irritating, corrosive and/or toxic gases.

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:

Do not allow product to reach sewage system or water bodies.
Do not allow to enter the ground/soil.

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.

Version Number 9

Revision date: January 30, 2023



SAFETY DATA SHEET

page 4/7
BeautiBond

Printing date: January 30, 2023

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:
Handle in a well ventilated place.
Keep away from open 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.
Keep refrigerated when not in use.
Separated from strong oxidants.
- 7.3 Specific end use(s):
No further relevant information available.

SECTION 8. Exposure controls/personal protection

8.1 Control parameters:

Exposure limits:

	ACGIH	NIOSH	OSHA-Final PELs
Acetone	250 ppm TWA 500 ppm STEL	250 ppm TWA (590 mg/m ³ TWA) 2500 ppm IDLH	1000 ppm TWA 2400 mg/m ³ TWA

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

Version Number 9

Revision date: January 30, 2023



SAFETY DATA SHEET

page 5/7
BeutiBond

Printing date: January 30, 2023

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Appearance/Odor/Colour:	Pale yellow liquid with characteristic odor.
Odour threshold:	Not determined.
pH:	Not determined.
Melting point/freezing point:	Not determined.
Boiling point:	Not determined.
Flash point:	-15.0 °C (closed)
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:	0.94 (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:

Excessive heat (high temperature), open flames, ignition source, and exposure to sunlight.

10.5 Incompatible materials:

Strong oxidizing materials.

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:	Acute Tox.4; H302 Harmful if swallowed.				
Acetone;	Oral	rat	LD50	5800 mg/kg	
	Dermal	rabbit	LD50	> 7400 mg/kg	
	Inhalation	rat	LC50	32000 ppm/4H	
Skin corrosion/irritation:	Based on available data, the classification criteria are not met.				

Version Number 9

Revision date: January 30, 2023



SAFETY DATA SHEET

page 6/7
BeautiBond

Printing date: January 30, 2023

Eye damage/irritation: Eye Irrit.2B; H320 Causes eye irritation.
Sensitization to the respiratory tract: Resp. Sens.1; H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin sensitization: Skin Sens.1; H317 May cause an allergic skin reaction.
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: Repr.2; H361 Suspected of damaging fertility or the unborn child.
Effects on or via lactation: Lack of data.
Specific target organ toxicity (single exposure): STOT SE 3; H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness.
Specific target organ toxicity (repeated exposure): STOT RE 1; H372 Causes damage to organs through prolonged or repeated exposure (central nervous system, respiratory organ, gastrointestinal tract).
Aspiration hazard: Based on available data, the classification criteria are not met.
11.2 Information on other hazards:
No further relevant information available.

SECTION 12. Ecological information

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

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: 1090
14.2 UN proper shipping name: Acetone, solution



SAFETY DATA SHEET

page 7/7
BeutiBond

Printing date: January 30, 2023

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

SECTION 15. Regulatory information

Follow all regulations in your country.

SECTION 16. Other information

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

NFPA ratings (scale 0-4)



Health = 1
Fire = 3
Reactivity = 0

HMIS ratings (scale 0-4)

Health Hazard	1
Fire Hazard	3
Reactivity	0

Health = 1
Fire = 3
Reactivity = 0

Relevant phrases:

- H225 Highly flammable liquid and vapour.
H302 Harmful if swallowed.
H317 May cause an allergic skin reaction.
H320 Causes eye irritation.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H372 Causes damage to organs through prolonged or repeated exposure (central nervous system, respiratory organ, gastrointestinal tract).

Abbreviations and acronyms:

- 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

Version Number 9

Revision date: January 30, 2023