

SAFETY DATA SHEETS

This SDS packet was issued with item:

076220628

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).

076220636

MATERIAL SAFETY DATA SHEET

1. Identification of the Product and the Company

1.1 Product Name:

BeautiSealant "Primer"

1.2 Company /Undertaking identification

Manufacturer's Name: SHOFU INC.

Address: 11-Kamitakamatsu-Cho Fukunine Higashiyamaku Kyoto 605-0983 ,JAPAN

Phone: +81-75-561-1112

Fax: +81-75-561-2273

Division: Quality Assurance Section Manager

Date Prepared: 2011.2.4

1.3 Emergency Telephone Number

+81-75-561-1112

2. Hazardous Identification

• GHS Label elements

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 SYSTEMIC

Category 3(narcotic

TOXICITY (SINGLE EXPOSURE)

effects,respiratory

tract irritation)

SPECIFIC TARGET ORGAN SYSTEMIC

Category 2(blood)

TOXICITY (REPEATED EXPOSURE)

ENVIRONMENTAL HAZARD

HAZARDOUS TO THE AQUATIC

Not Classified

ENVIRONMENT-ACUTE HAZARD

HAZARDOUS TO THE AQUATIC

Not Classified

ENVIRONMENT-CHRONIC HAZARD

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

LABEL ELEMENTS
SYMBOL



SIGNAL WORD

Danger

MATERIAL SAFETY DATA SHEET

HAZARD STATEMENTS	Highly flammable liquid and vapor May cause allergic skin reaction. Causes serious eye irritation 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)
PREVENTION	[Measure of safety] 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. [Emergency measures] 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 you feel unwell, get medical advice/attention. Take off immediately contaminated clothing. Wash contaminated clothing before reuse. If on skin, wash with plenty of soap and water. If on skin, skin irritation, get medical advice/attention. 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. [Storage] Store in a cool and dark area. (Keep refrigerated when not in use) [Disposal] Dispose of contents and container in accordance with regulation.
COUNTRY AND REGIONAL INFORMATION	Refer to [15.Regulatory Information] for a domestic method.

3.Composition/Information on Ingredients

<i>Composition</i>		<i>Hazard type</i>
Acetone [Cas No.67-64-1]	≈60%	F .Xi
Purified water [Cas No.7732-18-5]		
Phosphonate monomer		
Others		

MATERIAL SAFETY DATA SHEET

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.
- 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-resistant 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.

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* Colorless liquid with sweet odor
- 9.2 *Boiling Point/Boiling Range*: N/D
- 9.3 *Melting Point/Melting Range*: 95 °C [as Acetone]
- 9.4 *Flash point*: -15.0 °C(closed)
- 9.5 *Auto flammability*: N/D
- 9.6 *Explosive Properties*: N/D
- 9.7 *Oxidizing Properties*:
- 9.8 *Vapour Pressure*: N/D
- 9.9 *Relative Density*: 0.94 (water=1)

MATERIAL SAFETY DATA SHEET

9.10 Solubility: water solubility Soluble in all purport

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

Acetone ;

Acute toxicity : Emergency response guidebook

Vapors may cause dizziness or suffocation.

(Inhalation)	mouse	LCL0	110 g/m3/1H
	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 bum skin and eyes.

Irritant properties to skin/eye.

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

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 Conditions

Disposal in accordance with federal, state and local regulations.

14.Transport Information

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

15.Regulatory Information

No information

16.Other Information

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



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PRIMER

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

- 1.1 Product identifier
Trade Name:
BeautiSealant "PRIMER"
- 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
PHYSICAL HAZARDS
FLAMMABLE LIQUIDS Category 2
HEALTH HAZARDS
ACUTE TOXICITY-ORAL Category 4
SKIN CORROSION/IRRITATION Category 2
EYE DAMAGE/IRRITATION Category 2A
SENSITIZATION-RESPIRATORY Category 1
SENSITIZATION-SKIN Category 1
SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (SINGLE EXPOSURE)
Category 3 (narcotic effects)

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

- 2.2 Label elements
SYMBOL



GHS02 GHS07 GHS08

HAZARD-DETERMINING COMPONENTS OF LABELLING

Acetone

SIGNAL WORD Danger

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HAZARD STATEMENTS

Highly flammable liquid and vapor
Harmful if swallowed
Causes skin irritation
May cause an allergic skin reaction
Causes serious eye irritation
May cause allergy or asthma symptoms or breathing difficulties if inhaled
May cause drowsiness and dizziness

PRECAUTIONARY STATEMENTS

[Prevention]

Do not handle until all safety precautions have been read and understood.
Wear protective gloves and eye/face protection.
Do not breathe mist/vapors.
Do not eat, drink or smoke when using this product.
Keep away from ignition sources such as heat/sparks/open flames-No smoking.
Use only outdoors or in a well-ventilated area.
Keep container tightly closed.
Wash hands thoroughly after handling.

[Response]

IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
If skin irritation or rash occurs: Get medical advice/attention.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.

[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

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

3.3 Dangerous components:

Acetone [Cas.No.67-64-1] 55-60 %

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Other components:

Purified water
Phosphonate monomer
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 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:

If it is not dangerous, the container is moved from the fire district.

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:

It enters and is prohibited other than parties concerned.

Wears an appropriate protection tool.

6.2 Environmental Precautions:

Attention should be taken for the spillage not to flow into sewages, drains, and low ground.

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:

Handle in a well ventilated place.

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

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- 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.)
- 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	500 ppm TWA 750 ppm STEL	250 ppm TWA (590mg/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

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance/Odor/Colour:	Colorless liquid with sweet odor
Odour threshold	Not determined.
pH	Not determined.
Melting point/freezing point	Not determined.

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Boiling Point:	Not determined.
Flash point:	-10 °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 (75.8 mg/L)	
Skin corrosion/irritation:	Skin Irrit. 2; H315; Causes skin irritation.				
Eye damage/irritation:	Eye Irrit. 2A; H319 Causes serious 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.				

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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):

STOT SE 3; H336 May cause drowsiness or dizziness.

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:

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

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 informati

Follow all regulations in your country.

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SECTION 16. Other information

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

NFPA ratings for USA (scale 0-4)

Acetone;



Health = 1
Fire = 3
Reactivity = 0

Relevant HMIS-Ratings (Scale 0-4)

Acetone;

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.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H336 May cause drowsiness or dizziness.

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