

# SAFETY DATA SHEETS

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

076362263

N/A

"Reviewed September 2010: No Changes"

**Material Safety Data Sheet**

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

**U.S. Department of Labor**

Occupational Safety and Health Administration  
(Non-Mandatory Form)  
Form Approved  
OMB No. 1218-0072



**IDENTITY (As Used on Label and List)**  
Glaslonomer Type II Liquid

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

**Section I**

Manufacturer's Name <b>Shofu Dental Corporation</b>	Emergency Telephone Number <b>1-800-535-5053</b>
Address (Number, Street, City, State, and ZIP Code) <b>1225 Stone Drive San Marcos, CA 92078</b>	Telephone Number for Information <b>760-736-3277</b>
Date Prepared <b>OCTOBER 1, 2002</b>	Signature of Preparer (optional)

**Section II — Hazardous Ingredients/Identify Information**

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
No hazardous material present in concentration greater than 1% (0.1% for carcinogens).				

**Section III — Physical/Chemical Characteristics**

Boiling Point	N/A	Specific Gravity (H <sub>2</sub> O = 1)	Above 1.0
Vapor Pressure (mm Hg)	N/A	Melting Point	N/A
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	N/A
Solubility in Water	Complete		
Appearance and Odor	Colorless, odorless, viscous liquid		

**Section IV — Fire and Explosion Hazard Data**

Flash Point (Method Used)	N/A	Flammable Limits	N/A	LEL	UEL
Extinguishing Media	N/A				
Special Fire Fighting Procedures	N/A				
Unusual Fire and Explosion Hazards	N/A				

**Section V — Reactivity Data**

Stability	Unstable	Conditions to Avoid
	Stable	X
Incompatibility (Materials to Avoid)	N/A	
Hazardous Decomposition or Byproducts	N/A	
Hazardous Polymerization	May Occur	Conditions to Avoid
	Will Not Occur	X

**Section VI — Health Hazard Data**

Route(s) of Entry:	Inhalation?	N/A	Skin?	Possible	Ingestion?	Possible
Health Hazards (Acute and Chronic)	Avoid skin and eye contact. Could cause irritation.					
Carcinogenicity:	NTP?	N/A	IARC Monographs?	N/A	OSHA Required?	N/A
Signs and Symptoms of Exposure	Skin or eye irritation					
Medical Conditions	Sensitively Aggravated by Exposure Unknown					

**Emergency and First Aid Procedures**  
Eyes: Flush promptly w/flowing water. Consult physician if necessary. Skin contact: Wash area w/mild soap & water. Ingestion: Drink plenty of water. Contact physician if necessary.

**Section VII — Precautions for Safe Handling and Use**  
Steps to Be Taken in Case Material is Released or Spilled  
Wipe up and discard in a suitable container

**Section VIII — Control Measures**  
Respiratory Protection (Specify Type) N/A

Ventilation	Local Exhaust	Special	
	Mechanical (General)	Other	
Protective Gloves	N/A	Eye Protection	May be required
Other Protective Clothing or Equipment	N/A		
Work/Hygiene Practices	N/A		

**Section V — Reactivity Data**

Stability	Unstable	Conditions to Avoid
	Stable	X
Incompatibility (Materials to Avoid)	N/A	
Hazardous Decomposition or Byproducts	N/A	
Hazardous Polymerization	May Occur	Conditions to Avoid
	Will Not Occur	X

**Section VI — Health Hazard Data**

Route(s) of Entry:	Inhalation?	N/A	Skin?	Possible	Ingestion?	Possible
Health Hazards (Acute and Chronic)	Avoid skin and eye contact. Could cause irritation.					
Carcinogenicity:	NTP?	N/A	IARC Monographs?	N/A	OSHA Required?	N/A
Signs and Symptoms of Exposure	Skin or eye irritation					
Medical Conditions	Sensitively Aggravated by Exposure Unknown					

**Emergency and First Aid Procedures**  
Eyes: Flush promptly w/flowing water. Consult physician if necessary. Skin contact: Wash area w/mild soap & water. Ingestion: Drink plenty of water. Contact physician if necessary.

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Steps to Be Taken in Case Material is Released or Spilled  
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Respiratory Protection (Specify Type) N/A

Ventilation	Local Exhaust	Special	
	Mechanical (General)	Other	
Protective Gloves	N/A	Eye Protection	May be required
Other Protective Clothing or Equipment	N/A		
Work/Hygiene Practices	N/A		



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

### 1.1 Product identifier

Trade Name:

**Glaslonomer Cement Type II "LIQUID"**

### 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

Not Classified

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

### 2.2 Label elements

SYMBOL Void

SIGNAL WORD Void

HAZARD STATEMENTS Void

### PRECAUTIONARY STATEMENTS

[Prevention]

Obtain special instruction before use.

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.

[Disposal]

Dispose of contents and container in accordance with regulation.

### 2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

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vPvB: Not applicable.

## SECTION 3. Composition/information on ingredients

- 3.1 Chemical characterization: Mixtures
- 3.2 Description: -
- 3.3 Dangerous components: Void
  - Copolymer of acrylic acid and tricarboxylic acid (Water solution) 90-99 %
  - Tartaric acid [Cas No.87-69-4] 1-10 %
  - 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, CO<sub>2</sub>, Powder, Dry sand
- 5.2 Special hazards arising from the substance or mixture:
  - No further relevant information available.
- 5.3 Advice for firefighters:
  - No special measures required.

## 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 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.

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## SECTION 7. Handling and storage

- 7.1 Precautions for safe handling:  
Avoid inhaling and contact with eyes and skin.  
Keep away from ignition sources and separate from strong oxidizer.
- 7.2 Conditions for safe storage, including any incompatibilities:  
Store in a cool and dry place out of direct sunlight and source of ignition.  
Separated from organic peroxide. Keep containers closed.
- 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:  
Dust mask
- 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: | Odourless, color less liquid |
| Odour threshold         | Not determined.              |
| pH                      | Not determined.              |

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Melting point/freezing point	Not determined.
Boiling Point:	≈ 100 °C
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:	1.27 (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:  
Avoid direct sunlight and high temperature.
- 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
- 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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