

SAFETY DATA SHEETS

This SDS packet was issued with item:

076345029

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).

076345011 076345045

MATERIAL SAFETY DATA SHEET

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

1.1 Product Name:

Glaslonomer Base Cement "POWDER"

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: 2012.6.7

1.3 Emergency Telephone Number

+81-75-561-1112

2. Hazardous identification

GHS CLASSIFICATION

PHYSICAL HAZARDS	FLAMMABLE SOLIDS	Not Classified
	PYROPHORIC SOLIDS	Not Classified
	SELF-HEATING SUBSTANCES AND MIXTURES	Not Classified
	SUBSTANCES AND MIXTURES WHICH, IN CONTACT WITH WATER, EMIT FLAMMABLE GASES	Not Classified
	OXIDIZING SOLIDS	Not Classified
HEALTH HAZARDS	ACUTE TOXICITY-ORAL	Not Classified
	EYE DAMAGE/IRRITATION	Category 2B
	SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (REPEATED EXPOSURE)	Category 2(lung)

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

LABEL ELEMENTS

SYMBOL



SIGNAL WORD

Warning

HAZARD STATEMENTS

Causes eye irritation

Warning May cause damage to organs through prolonged or repeated exposure(lung)

PRECAUTIONARY STATEMENTS

[Prevention]

Obtain special instruction before use.

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

Wear protective gloves/protective clothing/eye protection/face protection.

Do not breathe dust.

Wash hands thoroughly after handling.

[Response]

Get medical advice/attention if you feel unwell.

IF IN EYES: Rinse cautiously with water for several minutes.

MATERIAL SAFETY DATA SHEET

Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

[Storage]

Store in a cool and dark area.

[Disposal]

Dispose of contents and container in accordance with regulation.

3.Composition/information on ingredients

<i>Composition</i>	<i>Content</i>
Alumino fluoro silicate glass	≐ 85%
Barium sulphate	≐ 15%
Others	
Hazardous ingredients are not include.	

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 and seek medical advice if necessary.
- 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

This product is non-flammable.

- | | |
|---|-----|
| <i>5.1 Suitable Extinguishing Media:</i> | N/A |
| <i>5.2 Extinguishing Media Should not be used :</i> | N/A |
| <i>5.3 Special Exposure Hazards Arising:</i> | N/A |
| <i>5.4 Special Protective Equipment:</i> | N/A |

6.Accidental release measures

- | | |
|---------------------------------------|---|
| <i>6.1 Personal Precautions:</i> | See section 8. Avoid contact with eyes and skin. |
| <i>6.2 Environmental Precautions:</i> | Send to approved treatment/disposal company or dispose according to local, state and federal regulations. |
| <i>6.3 Methods for Cleaning Up:</i> | Wipe up and discard in a suitable container. |

7.Handling and storage

- | | |
|----------------------|---|
| <i>7.1 Handling:</i> | Local dust extraction measures are recommended. Avoid prolonged inhalation. Handling of the product exclusively restrict to dental specialists, according to the instruction for use. |
| <i>7.2 Storage:</i> | Store in a cool and dry conditions with lid tightly closed. |

8.Exposure controls/personal protection

- | | |
|------------------------------------|--|
| <i>8.1Exposure limits:</i> | ACGIH TLV.
None assigned. |
| <i>8.2 Respiratory Protection:</i> | Dust mask(may be) |
| <i>8.3 Hand Protection:</i> | Latex or rubber gloves |
| <i>8.4 Eye Protection:</i> | Safety goggles or eye protection. |
| <i>8.5 Skin Protection:</i> | Not required. General protective overalls. |

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9. Physical and chemical properties

9.1 Appearance/Odour/pH	Yellowish white odorless powder
9.2 Boiling Point/Boiling Range:	N/D
9.3 Melting Point/Melting Range:	N/D
9.4 Flash point:	N/D
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:	$\approx 2.3 \text{ g/cm}^3$
9.10 Solubility: water solubility	Insoluble

10. Stability and reactivity

10.1 Stability:	Stable under recommended storage conditions.
10.2 Reactivity:	N/A
10.3 Condition to avoid:	Avoid direct sunlight and high temperature.
10.4 Materials to avoid:	N/A

11. Toxicological information

No information

12. Ecological information

No information

13. Disposal considerations

Dispose of contents/container to in accordance with local/regional/national/international regulations.

14. Transport information

Airline restriction information ; It doesn't correspond.
UN No. ; It doesn't correspond.
Sea restriction information ; It doesn't correspond.
UN No. ; It doesn't correspond.

15. Regulatory information

Follow all regulations in your country.

16. Other information

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



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

1.1 Product identifier

Trade Name:

Glaslonomer Base Cement "POWDER"

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

HEALTH HAZARDS

ACUTE TOXICITY-ORAL

Not Classified

EYE DAMAGE/IRRITATION

Category 2B

SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (REPEATED EXPOSURE)

Category 2(lung)

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

2.2 Label elements

SYMBOL



GHS08

SIGNAL WORD Warning

HAZARD STATEMENTS

Causes serious eye irritation.

May cause damage to organs through prolonged or repeated exposure (lung)

PRECAUTIONARY STATEMENTS

[Prevention]

Obtain special instruction before use.

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

Do not breathe dust.

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Wear protective gloves/protective clothing/eye protection/face protection.

Wash hand thoroughly after handling.

[Response]

Get medical advice/attention if you feel unwell.

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.

[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.

vPvB: Not applicable.

SECTION 3. Composition/information on ingredients

3.1 Chemical characterization: Mixtures

3.2 Description: -

3.3 Dangerous components: Void

Alumino fluoro silicate glass [Cas No.65997-18-4]

Barium sulphate [Cas No.7727-43-7] 10-20 %

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:

This product is not flammable.

5.2 Special hazards arising from the substance or mixture:

No further relevant information available.

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- 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. Do not breathe dust.
- 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.

SECTION 7. Handling and storage

- 7.1 Precautions for safe handling:
Handle in a well ventilated area. Avoid prolonged inhalation.
- 7.2 Conditions for safe storage, including any incompatibilities:
Store in a cool and dry conditions with lid tightly 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.

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- 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:	White or yellow odorless powder
Odour threshold	Not determined.
pH	Not determined.
Melting point/freezing point	Not determined.
Boiling Point:	Not determined.
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:	≈ 2.3 (water=1)
Solubility: water solubility	Insoluble.
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.

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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:	Eye Irrit. 2B; H319 Causes serious eye irritation.
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.
Specific target organ toxicity (single exposure):	Based on available data, the classification criteria are not met.
Specific target organ toxicity (repeated exposure):	STOT RE 2; H373 May cause damage to organs through prolonged or repeated exposure (lung).
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. |

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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)

Relevant phrases:

H319 Causes serious eye irritation.

H373 May cause damage to organs through prolonged or repeated exposure (lung).

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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