

SAFETY DATA SHEETS

This SDS packet was issued with item:

076345839

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

076345078

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. |

MATERIAL SAFETY DATA SHEET

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)

MATERIAL SAFETY DATA SHEET

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

1.1 Product Name:

Glaslonomer Base Cement "LIQUID"

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 LIQUIDS

Not Classified

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

LABEL ELEMENTS

SYMBOL

SIGNAL WORD

HAZARD STATEMENTS

PRECAUTIONARY 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.

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

Keep container tightly closed.

Wash hands thoroughly after handling.

[Response]

If you feel un-well, 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

Composition

Content

Copolymer of acrylic acid and tricarboxylic acid (Water solution)

> 90%

Tartaric acid [Cas No.87-69-4]

< 10%

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

MATERIAL SAFETY DATA SHEET

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* : N/A
5.3 *Special Exposure Hazards Arising*: N/A
5.4 *Special Protective Equipment*: N/A

6.Accidental release measures

6.1 *Personal Precautions*: See section 8. 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 for Cleaning Up*: Wipe up and discard in a suitable container.

7.Handling and storage

7.1 *Handling*: Ventilation. Local exhaust. Avoid inhaling and contact with eyes and skin.
Keep away from ignition sources and separate from strong oxidizer.
7.2 *Storage*: Store in a cool and dry place out of direct sunlight and source of ignition.
Separated from organic peroxide. Keep containers closed.

8.Exposure controls/personal protection

8.1 *Exposure limits*: ACGIH TLV.
None assigned.
8.2 *Respiratory Protection*: Local exhaust
8.3 *Hand Protection*: Latex or rubber gloves
8.4 *Eye Protection*: Safety goggles or eye protection.
8.5 *Skin Protection*: Not required. General protective overalls.

9.Physical and chemical properties

9.1 *Appearance/Odour/pH*: Odourless, color less liquid
9.2 *Boiling Point/Boiling Range*: $\approx 100^{\circ}\text{C}$
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*: 1.27
9.10 *Solubility: water solubility*: Soluble
9.11 *pH*: N/D

10.Stability and reactivity

10.1 *Stability*: Stable under the normal condition.
10.2 *Reactivity*: N/A
10.3 *Condition to avoid*: Avoid direct sunlight and high temperature.
10.4 *Materials to avoid*: N/A

MATERIAL SAFETY DATA SHEET

11.Toxicological information

No information

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

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)

SAFETY DATA SHEET

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

1.1 Product Name:

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1.2 Company /Undertaking identification

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Fax: +81-75-561-2273

Section in Charge: Quality Assurance Section

Date Prepared: 2014.9.22

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
HEALTH HAZARDS	OXIDIZING SOLIDS	Not Classified
	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.

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.

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

6.Accidental release measures

- | | |
|---------------------------------------|---|
| 6.1 Personal Precautions: | See section 8. 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 for Cleaning Up: | Wipe up and discard in a suitable container. |

7.Handling and storage

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

8.Exposure controls/personal protection

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

SAFETY DATA SHEET

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)

SAFETY DATA SHEET

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

1.1 Product Name:

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1.2 Company /Undertaking identification

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Date Prepared: 2014.9.22

1.3 Emergency Telephone Number

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2. Hazards identification

GHS CLASSIFICATION

PHYSICAL HAZARDS

FLAMMABLE LIQUIDS

Not Classified

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

LABEL ELEMENTS

SYMBOL —

SIGNAL WORD —

HAZARD STATEMENTS —

PRECAUTIONARY 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.

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

Keep container tightly closed.

Wash hands thoroughly after handling.

[Response]

If you feel un-well, get medical advice/attention.

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.

[Disposal]

Dispose of contents and container in accordance with regulation.

3. Composition/information on ingredients

Composition

Copolymer of acrylic acid and tricarboxylic acid (Water solution)

Tartaric acid [Cas No.87-69-4]

Others

Content

> 90%

< 10%

SAFETY DATA SHEET

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. 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:** N/A
- 5.4 Special Protective Equipment:** N/A

6.Accidental release measures

- 6.1 Personal Precautions:** See section 8. 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 for Cleaning Up:** Wipe up and discard in a suitable container.

7.Handling and storage

- 7.1 Handling:** Ventilation. Local exhaust. Avoid inhaling and contact with eyes and skin. Keep away from ignition sources and separate from strong oxidizer.
- 7.2 Storage:** Store in a cool and dry place out of direct sunlight and source of ignition. Separated from organic peroxide. Keep containers closed.

8.Exposure controls/personal protection

- 8.1Exposure limits:** ACGIH TLV.
None assigned.
- 8.2 Respiratory Protection:** Local exhaust
- 8.3 Hand Protection:** Latex or rubber gloves.
- 8.4 Eye Protection:** Safety goggles or eye protection.
- 8.5 Skin Protection:** Not required. General protective overalls.

9.Physical and chemical properties

- 9.1 Appearance/Odour/pH** Odourless, color less liquid
- 9.2 Boiling Point/Boiling Range:** $\cong 100^{\circ}\text{C}$
- 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:** 1.27
- 9.10 Solubility:** water solubility Soluble

SAFETY DATA SHEET

10.Stability and reactivity

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

11.Toxicological information

No information

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.

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)