




SAFETY DATA SHEET

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Glaslonomer FX-LC
LIQUID
Printing date: April 6, 2026

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

- 1.1 Product identifier
Trade Name:
Glaslonomer FX-LC "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
HEALTH HAZARDS:
EYE DAMAGE/IRRITATION Category 2A
SENSITIZATION-SKIN Category 1
- 2.2 Label elements
SYMBOL:

GHS07
SIGNAL WORD: Warning
- HAZARD STATEMENTS:
May cause an allergic skin reaction.
Causes serious eye irritation.
- PRECAUTIONARY STATEMENTS:
[Prevention]
Obtain special instruction before use.
Do not handle until all safety precautions have been read and understood.
Avoid breathing dust/fume/gas/mist/vapours/spray.
Wash hands thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.



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[Response]

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.

Call a POISON CENTER/doctor if you feel unwell.

If skin irritation or rash occurs: Get medical advice/attention.

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 Ingredients and composition:

| Component | CAS-No | Weight % |
|-----------------------------------|----------|----------|
| Polyacrylic acid aqueous solution | — | 30-50 |
| Carboxylic acid monomer | — | 10-20 |
| 2-HEMA | 868-77-9 | 10-20 |
| 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.



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SECTION 5. Fire-fighting measures

- 5.1 Extinguishing Media:
Foam, CO₂, Powder, Dry sand
- 5.2 Special hazards arising from the substance or mixture:
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 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:
Avoid inhaling and contact with eyes and skin.
Handle in a well ventilated place.
- 7.2 Conditions for safe storage, including any incompatibilities:
Store in a cool and dry place out of direct sunlight and source of ignition.
- 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.



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- 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: | Light brown transparent liquid. |
| 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: | 1.2 (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.



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- 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: 2-HEMA;
Oral rat LD50 5564 mg/kg
Dermal rabbit LD50 > 3000 mg/kg
- Skin corrosion/irritation: Based on available data, the classification criteria are not met.
- Eye damage/irritation: Eye Irrit. 2A; H319 Causes serious eye irritation.
- Sensitization to the respiratory tract:
Based on available data, the classification criteria are not met.
- 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: 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):
Based on available data, the classification criteria are not met.
- 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:
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.



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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 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)

2-HEMA;



Health = 1
Fire = 1
Reactivity = 1

Relevant phrases:

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

Abbreviations and acronyms:

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative



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

1.1 Product identifier

Trade Name:

Glaslonomer FX-LC "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

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS).

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.

vPvB: Not applicable.



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SECTION 3. Composition/information on ingredients

3.1 Chemical characterization: Mixtures

3.2 Ingredients and composition:

| Component | CAS-No | Weight % |
|-------------------------------|------------|----------|
| Alumino fluoro silicate glass | 65997-18-4 | 90-99 |
| Pigment | — | |
| 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

This product is not flammable.

5.1 Extinguishing Media:

No further relevant information available.

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:

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 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.
Handle in a well ventilated area.
Handling of the product exclusively restrict to dental specialists, according to the instruction for use.
- 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.
 - 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 pale yellow powder.
Odour threshold: Not determined.



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| | |
|---|-----------------|
| 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: | Not determined. |
| 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.

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. |



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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):
Based on available data, the classification criteria are not met.
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:
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 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).



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Abbreviations and acronyms:

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative