# This SDS packet was issued with item:

076345839

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).

076345078

# MATERIAL SAFETY DATA SHEET

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

#### 1.1 Product Name:

Glasionomer 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

issue 3

Copolymer of acrylicacid 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 saop and plenty of water. If on skin, skin irritation, get medical

1/3

# MATERIAL SAFETY DATA SHEET

advice/attention.

4.3 Ingestion: Rinse mouth. Get medical advice/attention.

4.4 Inhalation: Remove victim to flesh air and keep at rest in a position comfortable for breathing.

If symptom concerning breath gose 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:
5.3 Special Exposure Hazards Arising:
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 inhailing 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: ≒100°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

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# 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)

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# Identification of the substance or mixture and of the supplier

Product identifier

Trade Name:

#### **Glasionomer Base Cement "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 date 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)

#### **Hazards identification SCTION 2.**

**GHS Classification** 2.1

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.

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.

# **SCTION 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

## SCTION 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.

#### **SCTION 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.

# SCTION 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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# SCTION 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.

# SCTION 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

# SCTION 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.

≈ 100 °C **Boiling Point:** 

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. Not determined. Viscosity Explosive properties Not applicable. Oxidising properties Not applicable.

9.2 Other information

No further relevant information available.

#### SCTION 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.

#### SCTION 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. Based on available data, the classification criteria are not met. Reproductive toxicity:

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.

### **SCTION 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.

# **SCTION 13.** Disposal considerations

13.1 Waste treatment methods:

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

# **SCTION 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.

# **SCTION 15.** Regulatory informati

Follow all regulations in your country.

### **SCTION 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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