

# MATERIAL SAFETY DATA SHEET

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

### 1.1 Product Name:

**Glaslonomer Cement Varnish**

### 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: 2011.11.15

### 1.3 Emergency Telephone Number

+81-75-561-1112

## 2. Hazards identification

### GHS CLASSIFICATION

PHYSICAL HAZARDS	FLAMMABLE LIQUIDS	Category 2
	PYROPHORIC LIQUIDS	Not Classified
HEALTH HAZARDS	ACUTE TOXICITY-ORAL	Not Classified
	ACUTE TOXICITY-DERMAL	Not Classified
	ACUTE TOXICITY-INHALATION(VAPOURS)	Not Classified
	ACUTE TOXICITY-INHALATION(DUST,MIST)	Category 4
	SKIN CORROSION/IRRITATION	Not Classified
	EYE DAMAGE/IRRITATION	Category 2A
	SENSITIZATION-RESPIRATORY	Category 1
	SENSITIZATION-SKIN	Category 1
	GERM CELL MUTAGENICITY	Not Classified
	SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (SINGLE EXPOSURE)	Category 3(narcotic effects)
	SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (REPEATED EXPOSURE)	Category 2 (respiratory system)
ENVIRONMENTAL HAZARD	HAZARDOUS TO THE AQUATIC ENVIRONMENT-ACUTE HAZARD	Category 3
	HAZARDOUS TO THE AQUATIC ENVIRONMENT-CHRONIC HAZARD	Category 3

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

### LABEL ELEMENTS

#### SYMBOL



#### SIGNAL WORD

Danger

#### HAZARD STATEMENTS

Highly flammable liquid and vapor  
 May cause allergic skin reaction.  
 Causes serious eye irritation  
 Harmful if inhaled (GAS/VAPOUR/DUST/MIST)  
 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 May cause drowsiness and dizziness  
 Causes damage to organs through prolonged or repeated exposure

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(respiratory system)

Harmful to aquatic life

Harmful to aquatic life with long lasting effects

**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.

In case of inadequate ventilation wear respiratory protection.

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

Do not eat, drink or smoke when using this product.

Keep away from ignition sources such as heat/sparks/open flames-No smoking.

Ground/Bond container and receiving equipment.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing should not be allowed out of the workspace.

Keep container tightly closed.

Wash hands thoroughly after handling.

Avoid release to the environment.

**[Response]**

If inhaled, 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.

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**

<i>Composition</i>		<i>Hazard type</i>
Ethyl acetate [Cas No.141-78-6]	>80 %	<b>F</b>
Rosin		
Others		

**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.

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## 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: Irritation gases and fumes may emit.
- 5.4 Special Protective Equipment: Wear fire protective cloth and self-contained breathing apparatus if necessary.

## 6.Accidental release measures

- 6.1 Personal Precautions: See section 8.
- 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: Handle in a well ventilated place. Wear protective gloves, safety spectacles or face shield.(If nccessary wear self-contained breathing apparatus.)  
Keep away from naked flames, sparks and sources of heat. No smoking.
- 7.2 Storage: Store in a cool and dark fire proof area with container tightly closed.

## 8.Exposure controls/personal protection

- 8.1Exposure limits: ACGIH TLV.  
Ethyl acetate [Cas No.141-78-6] 400 ppm (TWA)
- 8.2 Respiratory Protection: Ventilation. Local exhaust.
- 8.3 Hand Protection: Latex or rubber gloves
- 8.4 Eye Protection: Safety spectacles
- 8.5 Skin Protection: Not required (General working clothes.)

## 9.Physical and chemical properties

- 9.1 Appearance/Odour/pH Colorless liquid with sweet odor
- 9.2 Boiling Point/Boiling Range: N/D
- 9.3 Melting Point/Melting Range: N/D
- 9.4 Flash point: < 0
- 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: N/D
- 9.10 Solubility: water solubility Insoluble

## 10.Stability and reactivity

- 10.1 Stability: Stable under recommended storage conditions.
- 10.2 Reactivity: Heating may cause violent combustion or explosion.  
Decomposes under the influence of UV light, acids, bases.  
Reacts with strong oxidants, bases or acids.  
Attacks aluminium and plastics.
- 10.3 Condition to avoid: Avoid direct sunlight and high temperature.  
Avoid excess heat, flame and other source of ignition.  
Separated from strong oxidants.

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10.4 Materials to avoid:

Strong oxidizing materials

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## 11.Toxicological information

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Ethyl acetate ;

Inhalation (Acetic acid, ethyl ester)

mouse LC50 45 g/m<sup>3</sup>/2H

rat LC50 200 g/m<sup>3</sup>

Oral (Acetic acid, ethyl ester)

mouse LD50 4100 mg/kg

rat LD50 5620 mg/kg

Dermal (Acetic acid, ethyl ester)

rabbit LD50 > 20 ml/kg

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## 12.Ecological information

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The product should not be allowed to drain into sewers.

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## 13.Disposal considerations

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

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## 14.Transport information

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UN Hazard Class:3/UN Packing Group:

UN NO.1173 (as Ethyl acetate)

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## 15.Regulatory information

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Follow all regulations in your country.

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## 16.Other information

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