

# MATERIAL SAFETY DATA SHEET

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

### 1.1 Product Name:

DENTURE "LINER ADHESIVE "

### 1.2 Company /Undertaking identification

Manufacturer's Name: **SHOFU INC.**

Address: 11 Kamitakamatsu-cho, Fukunine, Higashiyama-ku, Kyoto 605-0983 ,JAPAN

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Section in Charge: Quality Assurance Section

Date Prepared 2011.9.22

### 1.3 Emergency Telephone Number

+81- 75- 561- 1112

## 2. Hazards identification

### GHS CLASSIFICATION

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

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

### LABEL ELEMENTS

#### SYMBOL



#### SIGNAL WORD

Danger

#### HAZARD STATEMENTS

Harmful if swallowed  
Causes skin irritation  
Causes serious eye irritation  
Suspected of causing cancer  
Causes damage to organs(central nervous,respiratory)

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May cause drowsiness and dizziness  
 Causes damage to organs through prolonged or repeated exposure  
 (central nervous, liver)  
 Toxic to aquatic life  
 Toxic 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.  
 Do not breathe dust/fume/gas/mist/vapours/spray.  
 Do not eat, drink or smoke when using this product.  
 Use only outdoors or in a well-ventilated area.  
 Keep container tightly closed.  
 Wash hands thoroughly after handling.  
 Avoid release to the environment.

[Response]

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.  
 If on skin, wash with plenty of soap and water. If on skin, skin  
 irritation, get medical advice/attention.  
 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 swallowed, rinse mouth. Get medical advice/attention.

[Storage]

Store container tightly closed in cool/well-ventilated place.

[Disposal]

Dispose of contents and container in accordance with regulation.

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### 3. Composition/information on ingredients

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	%	Hazardous
Dichloromethane [Cas No. 75-09-2]	>99	Xn
Others		

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### 4. First-aid measures

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- 4.1 *Eye contact* : Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. If eye irritation persists, get medical advice/attention.
- 4.2 *Skin contact* : Wash immediately with plenty of water and soap. 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

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- 5.1 *Suitable Extinguishing Media* : Carbon dioxide, Dry chemical powder, Foam, Water spray.

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<i>5.2 Extinguishing Media Should not be used:</i>	N/A
<i>5.3 Special Exposure Hazards Arising:</i>	Toxic, irritating fumes or smoke may be emitted.
<i>5.4 Special Protective Equipment:</i>	Wear fire protective cloth and self-contained breathing apparatus if necessary.

### 6. Accidental release measures

<i>6.1 Personal Precautions:</i>	Avoid eye and skin contact. See section 8
<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>	Absorb with suitable absorbent (e.g. paper towel, cloth, dry sand, saw dust and vermiculite) and discard in a suitable container.

### 7. Handling and storage

<i>7.1 Handling:</i>	Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Handle material with suitable protection. Do not empty into drain.
<i>7.2 Storage:</i>	Store away from sunlight in well-ventilated dry place at room temperature. Keep container tightly closed.

### 8. Exposure controls/personal protection

<i>8.1 Exposure limits:</i>	Dichloromethane OSHA PEL ; TWA 25ppm, ST 125 ppm [ACGIH 2004] TLV ; 50 ppm as TWA [JCGIH 2005] 50 ppm ; 170mg/m <sup>3</sup> ; (ceiling) 100ppm ; 340 mg/m <sup>3</sup>
<i>8.2 Respiratory Protection:</i>	Use local exhaust and protective gas mask for organic gas, if necessary.
<i>8.3 Hand Protection:</i>	Wear impervious glove made from chloroprene, as appropriate.
<i>8.4 Eye Protection:</i>	Wear protective eyeglasses or chemical safety goggles.
<i>8.5 Skin Protection:</i>	Not required (Observe normal care when working with chemicals.)

### 9. Physical and chemical properties

<i>9.1 Appearance/Odor/pH</i>	Colorless liquid
<i>9.2 Boiling Point/Boiling Range:</i>	≅ 40°C
<i>9.3 Melting Point/Melting Range:</i>	≅ -95°C
<i>9.4 Flash point:</i>	Hardly flammable in air
<i>9.5 Auto flammability:</i>	N/D
<i>9.6 Explosive Properties:</i>	N/D
<i>9.7 Oxidizing Properties:</i>	N/D
<i>9.8 Vapour Pressure:</i>	≅ 47.4 kPa (20°C)
<i>9.9 Relative Density:</i>	≅ 1.3 (water=1)
<i>9.10 Solubility: water solubility</i>	Slightly soluble

### 10. Stability and reactivity

<i>10.1 Stability:</i>	This product is considered a stable material under normal and anticipated storage and handling conditions.
<i>10.1 Condition to Avoid</i>	Avoid direct sunlight and high temperature.

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*102 Materials to Avoid* Polyvinyl chloride resin, polystyrene, synthetic rubber, etc.

**11.Toxicological information**

Dichloromethane ;

Acute toxicity:	Inhalation	mouse	LC50	14400 ppm/7H
		rat	LC50	88000 mg/m <sup>3</sup> /30M
Irritant properties:	Oral	rat	LD50	2136 mg/kg
		rabbit	LDL0	1900 mg/kg
	skin	rabbit	810 mg/24H ; SEVERE	
		rabbit	162 mg ; MODERATE	
eye	rabbit	10 mg ; MLD		

Carcinogenic effects: ACGIH- A3 : Confirmed Animal Carcinogen with Unknown relevance to Humans.

IARC- Gr.2B : Possibly carcinogenic to humans.

**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**

UN/ID no. 1593, ( Haz Class 6.1 Pack Group III ) as DICHLOROMETHANE

**15.Regulatory information**

Follow all regulations in your country.

**16.Other information**

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