

MATERIAL SAFETY DATA SHEET

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

1.1 Product Name:

CERAMAGE "CLEANER "

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: 2011.11.2

1.3 Emergency Telephone Number

+81-75-561-1112

2. Hazards identification

GHS CLASSIFICATION

PHYSICAL HAZARDS	FLAMMABLE LIQUIDS	Category 2
	PYROPHORIC LIQUIDS	Not Classified
	SELF-HEATING SUBSTANCES AND MIXTURES	Not Classified
	CORROSIVE TO METALS	Not Classified
HEALTH HAZARDS	ACUTE TOXICITY-ORAL	Not Classified
	ACUTE TOXICITY-DERMAL	Not Classified
	ACUTE TOXICITY-INHALATION(VAPOURS)	Not Classified
	ACUTE TOXICITY-INHALATION(DUST)	Not Classified
	ACUTE TOXICITY-INHALATION(MIST)	Not Classified
	SKIN CORROSION/IRRITATION	Not Classified
	EYE DAMAGE/IRRITATION	Category 2A
	SENSITIZATION-SKIN	Not Classified
	GERM CELL MUTAGENICITY	Category 1A
	CARCINOGENICITY	Not Classified
	TOXIC TO REPRODUCTION	Category 1A
	SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (SINGLE EXPOSURE)	Category 3 (respiratory tract irritation, narcotic effects)
	SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (REPEATED EXPOSURE)	Category 1(liver) Category 2(blood, nerve)
ENVIRONMENTAL HAZARD	HAZARDOUS TO THE AQUATIC ENVIRONMENT-ACUTE HAZARD	Category 3
	HAZARDOUS TO THE AQUATIC ENVIRONMENT-CHRONIC HAZARD	Not Classified

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

MATERIAL SAFETY DATA SHEET

LABEL ELEMENTS
SYMBOL



SIGNAL WORD

Danger

HAZARD STATEMENTS

Highly flammable liquid and vapor
 Causes serious eye irritation
 May cause respiratory irritation
 May cause drowsiness and dizziness
 May cause genetic defects
 May damage fertility or the unborn child
 Causes damage to organs through prolonged or repeated exposure(liver)
 Warning May cause damage to organs through prolonged or repeated exposure(blood,nerve)

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.
 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.
 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.

3.Composition/information on ingredients

<i>Hazardous Composition</i>	<i>%</i>	<i>Hazardous</i>
Acetone[Cas.No.67-64-1]	10	F
Ethanol [Cas.No. 64-17-5]	90	F

MATERIAL SAFETY DATA SHEET

4. First-aid measures

- 4.1 *Eye contact* : Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention.
- 4.2 *Skin contact* : Wash skin with soap or mild detergent and water for at least 15 minutes. Get medical attention if irritation develops or persists.
- 4.3 *Ingestion* : Never give anything by mouth to an unconscious person. Get medical 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*: CO₂, Dry chemical, Foam
- 5.2 *Extinguishing Media Should not be used* : N/A
- 5.3 *Special Exposure Hazards Arising*: Easily flammable liquid in room temp.
Fire may produce irritating, corrosive and/or toxic gases.
- 5.4 *Special Protective Equipment*: Wear fire protective cloth and self contained breathing apparatus if necessary.

6. Accidental release measures

- 6.1 *Personal Precautions*: Avoid eye contact. 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.
Avoid prolonged skin contact with uncured resin.
Keep away from naked flames, sparks and sources of heat. No smoking.
- 7.2 *Storage*: Store in a cool and dark area with container tightly closed.

8. Exposure controls/personal protection

- 8.1 *Exposure limits*:
- | | ACGIH | NIOSH | OSHA-Final PELs |
|----------|----------------------------|--|---|
| Acetone: | 500ppm TWA;
750ppm STEL | 250ppm TWA;590mg/m ³ TWA
2500ppm IDLH | 1000ppm TWA;
2400mg/m ³ TWA |
| Ethanol: | 1000ppm TWA | 1000ppm TWA; 1900mg/m ³
TWA 3300ppm IDLH | 1000ppm TWA;
1900mg/m ³ TWA |
- 8.2 *Respiratory Protection*: Not required(use protective gas mask for organic gas, if necessary)
- 8.3 *Hand Protection*: Latex or rubber gloves.
- 8.4 *Eye Protection*: Safety goggles (May be required)
- 8.5 *Skin Protection*: Not required.

9. Physical and chemical properties

- 9.1 *Appearance/Odor/pH* Colorless liquid with sweet odor
- 9.2 *Boiling Point/Boiling Range*: 70
- 9.3 *Melting Point/Melting Range*: N/D
- 9.4 *Flash point*: < 2 (close)

MATERIAL SAFETY DATA SHEET

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:	0.78 (water=1)
9.10 Solubility: water solubility	Soluble in all purport

10. Stability and reactivity

10.1 Stability:	Stable under normal temperatures and pressures.
10.2 Condition to Avoid:	Excessive heat (high temperature), open flames, ignition source, and exposure to sunlight.
10.3 Materials to Avoid:	Strong oxidants, Polyvinyl chloride, Acrylic resin, Polystyrene, etc.
10.4 Hazardous Decomposition Products:	Will not occur

11. Toxicological information

Asetone: Dermal, guinea pig: LD50 = >9400 uL/kg;
 Draize test, rabbit, eye: 10 uL Mild;
 Draize test, rabbit, eye: 20 mg Severe;
 Draize test, rabbit, eye: 20 mg/24H Moderate;
 Draize test, rabbit, skin: 500 mg/24H Mild;
 Inhalation, mouse: LC50 = 44 gm/m³/4H;
 Inhalation, rat: LC50 = 50100 mg/m³/8H;
 Oral, mouse: LD50 = 3 gm/kg;
 Oral, rabbit: LD50 = 5340 mg/kg;
 Oral, rat: LD50 = 5800 mg/kg;<BR.

Ethanol: Draize test, rabbit, eye: 500 mg Severe;
 Draize test, rabbit, eye: 500 mg/24H Mild;
 Draize test, rabbit, skin: 20 mg/24H Moderate;
 Inhalation, mouse: LC50 = 39 gm/m³/4H;
 Inhalation, rat: LC50 = 20000 ppm/10H;
 Oral, mouse: LD50 = 3450 mg/kg;
 Oral, rabbit: LD50 = 6300 mg/kg;
 Oral, rat: LD50 = 7060 mg/kg;
 Oral, rat: LD50 = 9000 mg/kg;

Inhalation of the vapor ,may cause headache, dizziness and vomiting.

Repeated contact to the mucous membrane of eyes, nose and throat cause inflammation.

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 Hazard Class:3/UN Packing Group:
 UN NO.1170 (as Ethyl alcohol)

MATERIAL SAFETY DATA SHEET

15.Regulatory information

Follow all regulations in your country.

16.Other information

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