




# SAFETY DATA SHEET

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CERAMAGE  
FLOWABLE COMPOSITE RESIN  
Printing date: September 4, 2019

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

- 1.1 Product identifier  
Trade Name:  
**CERAMAGE "FLOWABLE COMPOSITE RESIN"**
- 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 INC.**  
Address: 11 Kamitakamatsu-cho, Fukuine, Higashiyama-ku, Kyoto 605-0983, JAPAN  
Phone: +81-75-561-1112  
Fax: +81-75-275-4795  
Section in Charge: Quality Assurance Section
- 1.4 Emergency Telephone Number  
+81-75-561-1112

## SECTION 2. Hazards identification

- 2.1 GHS Classification  
HEALTH HAZARDS
- |                                 |             |
|---------------------------------|-------------|
| ACUTE TOXICITY-INHALATION(DUST) | Category 4  |
| SKIN CORROSION/IRRITATION       | Category 2  |
| EYE DAMAGE/IRRITATION           | Category 2A |
- The thing without mention is out of a classification object. Or cannot classify it.
- 2.2 Label elements  
SYMBOL
-   
GHS07
- SIGNAL WORD Warning
- HAZARD STATEMENTS
- Causes skin irritation
  - Causes serious eye irritation
  - Harmful if inhaled
- PRECAUTIONARY STATEMENTS
- [Prevention]
- Do not handle until all safety precautions have been read and understood.
  - Avoid breathing dust/fume/gas/mist/vapours/spray.
  - Wear protective gloves and eye/face protection.
  - Wash hands thoroughly after handling.



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## [Response]

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention.

If eye IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

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.

## SECTION 3. Composition/information on ingredients

### 3.1 Chemical characterization: Mixtures

### 3.2 Description: -

### 3.3 Dangerous components: Void

Zirconium silicate filler (amorphous)[Cas No.14940-68-2] 40-50 %

UDMA[Cas No.72869-86-4] 10-30 %

Others

### 3.4 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

### 5.1 Extinguishing Media:

Foam, CO<sub>2</sub>, Powder, Dry sand

### 5.2 Special hazards arising from the substance or mixture:

In case of fire, irritation gases and fumes may emit.





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- 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:	Colored putty-like paste with sweet odor.
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:	1.54 (water=1)
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:

Excessive heat (high temperature), open flames, ignition source, and exposure to sunlight.

### 10.5 Incompatible materials:

Strong oxidizing materials.

### 10.6 Hazardous Decomposition Products:

None under normal conditions of storage and use.



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## SECTION 11. Toxicological information

### 11.1 Information on toxicological effects:

Acute toxicity:	Acute Tox. 4; H332 Harmful if inhaled.
Skin corrosion/irritation:	Skin Irrit. 2; H315 Causes skin irritation.
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:	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.
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.

## 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.                            |



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## SECTION 15. Regulatory informati

Follow all regulations in your country.

## SECTION 16. Other information

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

Relevant phrases:

- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.

Abbreviations and acronyms:

- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative