



SAFETY DATA SHEET

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ResiCem
PASTE

Printing date: March 31, 2022

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

1.1 Product identifier

Trade Name:

ResiCem "PASTE"

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, MIST)

Category 4

EYE DAMAGE/IRRITATION

Category 2A

SENSITIZATION-SKIN

Category 1

Other hazards than mentioned above are Not applicable or data available.

2.2 Label elements

SYMBOL



HGS07

SIGNAL WORD: Warning

HAZARD STATEMENTS

May cause allergic skin reaction

Causes serious eye irritation

Harmful if inhaled

PRECAUTIONARY STATEMENTS

[Prevention]

Do not handle until all safety precautions have been read and understood.

Wear protective gloves and eye/face protection.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Wash hands thoroughly after handling.

Use only outdoors or in a well-ventilated area.

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[Response]

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

If skin irritation or rash occurs: Get medical advice/attention.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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 container tightly closed in cool/well-ventilated place (Keep refrigerated when not in use).

[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 Ingredients and composition:

Component	CAS-No	Weight %
UDMA	72869-86-4	5-20
TEGDMA	109-16-0	
Aluminofluoro-borosilicate glass	65997-18-4	40-70
Acrylic adhesive monomer	—	
2-HEMA	868-77-9	1-5
Amorphous fumed silica	7631-86-9	
Others	—	

3.3 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. Get medical advice/attention if you feel unwell.

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.

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- 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, CO₂, Powder, Dry sand
- 5.2 Special hazards arising from the substance or mixture:
If not dangerous, the container move from the fire district.
Fire fighting operation should be done from upwind position, with wearing protective equipment.
- 5.3 Advice for firefighters:
Wear fire protective cloth and self-contained breathing apparatus, if necessary.

SECTION 6. Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures:
It enters and is prohibited other than parties concerned.
Wears an appropriate protection tool.
- 6.2 Environmental Precautions:
Do not allow product to reach sewage system or water bodies.
Do not allow to enter the ground/soil.
- 6.3 Methods and material for containment and cleaning Up:
Wipe up and discard in a stable 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.

SECTION 7. Handling and storage

- 7.1 Precautions for safe handling:
Avoid prolonged skin contact with uncured resin.
When handling indoors, provide adequate ventilation with a local exhaust system.
Avoid contact with hot items, sparks, fire, strong oxidants.
- 7.2 Conditions for safe storage, including any incompatibilities:
Store in a cool and dark area (Keep refrigerated when not in use).
- 7.3 Specific end use(s):
No further relevant information available.

SECTION 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

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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. <ul style="list-style-type: none">· 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

SECTION 9. Physical and chemical properties

9.1	Information on basic physical and chemical properties:	
	Appearance/Odor/Colour:	Light yellow and brown colored paste.
	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:	≈ 1.8 (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.

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- 9.2 Other information:
No further relevant information available.

SECTION 10. Stability and reactivity

- 10.1 Reactivity:
May react with oxidants and light to polymerize.
- 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.

SECTION 11. Toxicological information

- 11.1 Information on toxicological effects:
- Acute toxicity: Acute Tox. 4; H332 Harmful if inhaled.
2-Hydroxyethyl methacrylate;
Oral rat LD50 > 4000 mg/kg
Dermal rabbit LD50 > 3000 mg/kg
- Skin corrosion/irritation: Based on available data, the classification criteria are not met.
- 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: Skin Sens.1; H317 May cause allergic skin reaction.
- 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.
- Aspiration hazard: Based on available data, the classification criteria are not met.
- 11.2 Information on other hazards:
No further relevant information available.

SECTION 12. Ecological information

- 12.1 Toxicity:
2-Hydroxyethyl methacrylate;
Pisces(cyprinodont) LC50/96hr > 100 mg/L

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- 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.

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).

NFPA ratings for USA (scale 0-4)

2-Hydroxy Ethyl Methacrylate;



Health = 1
Fire = 1
Reactivity = 1

HMIS-Ratings (Scale 0-4)

2-Hydroxy Ethyl Methacrylate;

Health Hazard	1
Fire Hazard	1
Reactivity	1

Health = 1
Fire = 1
Reactivity = 1



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Relevant phrases:

H317 May cause allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

Abbreviations and acronyms:

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

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