



# SAFETY DATA SHEET

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

1.1 Product identifier

Trade Name:

**FIT SA**

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 DENTAL CORPORATION**

Address: 1225 Stone Drive, San Marcos, CA 92078 USA

Toll Free: 1-800-827-4638

Phone: 760-736-3277

Fax: 760-736-3276

E-Mail: customer-service@shofu.com

Section in Charge: Quality Management & Regulatory Affairs

1.4 Emergency Telephone Number

For emergencies only. Call CHEMTREC: +1 703-741-5970 / 1-800-424-9300 (24 hours)

## SECTION 2. Hazards identification

2.1 GHS Classification

HEALTH HAZARDS

SKIN CORROSION/IRRITATION

Category 2

EYE DAMAGE/IRRITATION

Category 2A

SENSITIZATION-RESPIRATORY

Category 1

SENSITIZATION-SKIN

Category 1

2.2 Label elements

SYMBOL



GHS08

SIGNAL WORD: Danger

HAZARD STATEMENTS

Causes skin irritation.

May cause allergic skin reaction.

Causes serious eye irritation.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

PRECAUTIONARY STATEMENTS

[Prevention]

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

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

Wash hands thoroughly after handling.



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Contaminated work clothing should not be allowed out of the workplace.  
Wear protective gloves/protective clothing/eye protection/face protection.

[Response]

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

If skin irritation occurs: Get medical advice/attention.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

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.

[Storage]

Store in a cool and dark area. 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 %
Zirconium silicate	—	20-30
UDMA	72869-86-4	10-30
Silicon dioxide	7631-86-9	10-30
2-HEMA	868-77-9	5-10
Ytterbium trifluoride	13760-80-0	1-10
Glass powder	—	1-5
Phosphonate monomer	—	1-5
Silane coupling agent	—	1-5
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. Get immediate 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.



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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:

Fire may produce irritating, corrosive and/or toxic gases.

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:

Avoid contact with eyes and skin.

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.

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.

- 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 milk white low viscosity composite resin.
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.

9.2 Other information:

No further relevant information available.



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## 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.

## SECTION 11. Toxicological information

### 11.1 Information on toxicological effects:

Acute toxicity: 2-HEMA;  
Oral rat LD50 5564 mg/kg  
Dermal rabbit LD50 > 3000 mg/kg

Skin corrosion/irritation: Skin Irrit.3; H315 Causes skin irritation.

Eye damage/irritation: Eye Irrit.2A; H319 Causes serious eye irritation.

Sensitization to the respiratory tract:

Resp. Sens.1; H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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:

No further relevant information available.

### 12.2 Persistence and degradability:

No further relevant information available.

### 12.3 Bioaccumulative potential:

No further relevant information available.



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- 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 information

Follow all regulations in your country.

## SECTION 16. Other information

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

NFPA ratings (scale 0-4)

2-HEMA;



Health = 1  
Fire = 1  
Reactivity = 1

HMIS ratings (scale 0-4)

2-HEMA;

Health Hazard	1
Fire Hazard	1
Reactivity	1

Health = 1  
Fire = 1  
Reactivity = 1

Relevant phrases:

- H315 Causes skin irritation.
- H317 May cause allergic skin reaction.
- H319 Causes serious eye irritation.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.



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## 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

Version Number 2

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