



# SAFETY DATA SHEET

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PRG Barrier Coat  
ACTIVE  
Printing date: May 2, 2024

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

- 1.1 Product identifier  
Trade Name:  
**PRG Barrier Coat "ACTIVE"**
- 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  
ACUTE TOXICITY-ORAL Category 4  
SENSITIZATION-RESPIRATORY Category 1  
SENSITIZATION-SKIN Category 1

- 2.2 Label elements  
SYMBOL



GHS07 GHS08

SIGNAL WORD: Warning

### HAZARD STATEMENTS

Harmful if swallowed.  
May cause an allergic skin reaction.  
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.  
Wear protective gloves and eye/face protection.  
Avoid breathing dust/fume/gas/mist/vapours/spray.  
Do not eat, drink or smoke when using this product.  
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 INHALED: Remove person to fresh air and keep comfortable for breathing.

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

IF SWALLOWED: Rinse mouth. Call a POISON CENTER/doctor if you feel unwell.

## [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 %
Phosphonic acid monomer	—	10-40
Methacrylate monomer	—	20-30
Bis-MPEPP	41637-38-1	
Carboxylic acid monomer	—	
TEGDMA	109-16-0	
Reaction initiator	—	
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 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.



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## 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.
- 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 inhalation of grindings and 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  
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.



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- 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:	Colorless liquid with sweet odor.
Odour threshold:	Not determined.
pH:	Not determined.
Melting point/freezing point:	Not determined.
Boiling point:	Not determined.
Flash point:	> 95 °C
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:	≈ 1.02 (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:

May polymerize due to light, oxidizing agents, strong bases, and peroxides.  
May ignite on contact with hot objects, sparks, open flames or static sparks.



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## 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:

Acid, Alkali, Oxidation-related material

## 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; H302 Harmful if swallowed.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Eye damage/irritation: Based on available data, the classification criteria are not met.

Sensitization to the respiratory tract:

Skin Sens. 1; H317 May cause an allergic skin reaction.

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

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.

### 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.

### 12.4 Mobility in soil:

No further relevant information available.

### 12.5 Results of PBT and vPvB assessment:

Not applicable.



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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).

Relevant phrases:

H302 Harmful if swallowed.  
H317 May cause an allergic skin reaction.  
H334 May cause allergy or asthma symptoms or breathing difficulties 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