



# SAFETY DATA SHEET

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SOLIBOND

Printing date: May 7, 2024

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

### 1.1 Product identifier

Trade Name:

**SOLIBOND**

### 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

PHYSICAL HAZARDS

FLAMMABLE LIQUIDS

Category 2

HEALTH HAZARDS

ACUTE TOXICITY-ORAL

Category 4

EYE DAMAGE/IRRITATION

Category 2A

SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (SINGLE EXPOSURE)

Category 3 (narcotic effects,  
respiratory tract irritation)

### 2.2 Label elements

SYMBOL



GHS02



GHS07

SIGNAL WORD: Danger

HAZARD STATEMENTS

Highly flammable liquid and vapor.

Causes serious eye irritation.

Harmful if inhaled.

May cause respiratory irritation.

May cause drowsiness or dizziness.

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## PRECAUTIONARY STATEMENTS

### [Prevention]

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

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Keep container tightly closed.

Wash hands thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

### [Response]

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

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.

Call a POISON CENTER/doctor if you feel unwell.

If eye irritation persists: Get medical advice/attention.

### [Storage]

Store container tightly closed in cool/well-ventilated place.

### [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 %
Ethanol	64-17-5	95-99
Maleic acid anhydride	108-31-6	< 1
Silane coupling agent	—	
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.



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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:

Easily flammable liquid in room temp.

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:

Handle in a well ventilated place.

Keep away from open flames, sparks and sources of heat. No smoking.

7.2 Conditions for safe storage, including any incompatibilities:

Store in a cool and dark area with container tightly closed.

7.3 Specific end use(s):

No further relevant information available.

## SECTION 8. Exposure controls/personal protection

8.1 Control parameters:

Exposure limits:

Component	ACGIH	NIOSH REL	OSHA PEL
Ethanol	TWA 1000 ppm	TWA 1000 ppm (1900 mg/m <sup>3</sup> )	TWA 1000 ppm (1900 mg/m <sup>3</sup> )

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Component	ACGIH
Maleic acid anhydride	TWA 0.01 mg/m <sup>3</sup>

## 8.2 Exposure controls:

### Respiratory Protection:

Not required (use protective gas mask for organic gas, if necessary)

### 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:	Colorless transparent liquid with alcohol odor.
Odour threshold:	Not determined.
pH:	Not determined.
Melting point/freezing point:	Not determined.
Boiling point:	≈ 80 °C
Flash point:	16 °C (closed)
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:	0.8 (water=1)



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Solubility: water solubility	Soluble
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.

## SECTION 11. Toxicological information

### 11.1 Information on toxicological effects:

#### Acute toxicity:

Acute Tox. 4; H332 Harmful if inhaled.

Ethanol;

Oral	rat	LD50	> 5000 mg/kg
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Inhalation	rat	LC50	20000 ppm/10H
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Maleic acid anhydride;

Oral	rat	LD50	555 mg/kg
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Dermal	rabbit	LD50	2620 mg/kg
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Inhalation	rat	LC50	0.16 mg/L 4H
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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:

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.

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Specific target organ toxicity (single exposure):

STOT SE 3; H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness.

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.

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:

1170

14.2 UN proper shipping name:

ETHANOL, solution

14.3 Transport hazard class (es):

3 Flammable liquids.

14.4 Packing group:

II

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).



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## NFPA ratings (scale 0-4)

Ethanol;



Health = 2  
Fire = 3  
Reactivity = 0

## HMIS ratings (scale 0-4)

Ethanol;

Health Hazard	2
Fire Hazard	3
Reactivity	0

Health = 2  
Fire = 3  
Reactivity = 0

## Relevant phrases:

- H225 Highly flammable liquid and vapour.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.

## Abbreviations and acronyms:

- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative