



SAFETY DATA SHEET

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FL BOND II
PRIMER

Printing date: September 3, 2019

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

- 1.1 Product identifier
Trade Name:
FL BOND II "PRIMER"
- 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
- | | |
|---------------------------|-------------|
| PHYSICAL HAZARDS | |
| FLAMMABLE LIQUIDS | Category 2 |
| HEALTH HAZARDS | |
| ACUTE TOXICITY-ORAL | Category 4 |
| EYE DAMAGE/IRRITATION | Category 2A |
| SENSITIZATION-RESPIRATORY | Category 1 |
| SENSITIZATION-SKIN | Category 1 |

The thing without mention is out of a classification object. Or cannot classify it.

- 2.2 Label elements
SYMBOL



GHS02 GHS07 GHS08

SIGNAL WORD Danger

HAZARD STATEMENTS

Highly flammable liquid and vapor
Harmful if swallowed
May cause allergic skin reaction
Causes serious eye irritation
May cause allergy or asthma symptoms or breathing difficulties if inhaled



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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.

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

Wash hands thoroughly after handling.

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

[Response]

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

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

If skin irritation or rash 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 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 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 Description: Mixture of substances listed below with nonhazardous additions.

3.3 Dangerous components:

Ethanol [Cas.No. 64-17-5]	30-35 %
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Other component:

Water	40-50 %
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Phosphonic acid type monomer

Carboxylic acid type monomer

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.

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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, CO₂, Powder, Dry sand

5.2 Special hazards arising from the substance or mixture:

Easily flammable liquid in room temp.

In case of fire, irritation gasses 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:

Send to approved treatment/disposal company or dispose according to local, state and federal regulations.

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 ignition source-No smoking.

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:



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Exposure limits:

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

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.

- 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:	Not determined.
Flash point:	23 °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:	≈ 1 (water=1)
Solubility: water solubility	Soluble

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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; H302 Harmful if swallowed.
Ethanol;
Oral mouse LD50 3450 mg/kg
Inhalation rat LC50 20000 ppm/10H
- 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:
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: Ethanol;
ACGIH-A4; Not classifiable as a human carcinogen.
[DFG 2004] MAK; Carcinogen category: 5
- 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.

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Aspiration hazard: 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: 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 informati

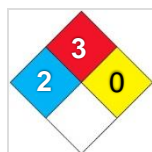
Follow all regulations in your country.

SECTION 16. Other information

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

NFPA ratings for USA (scale 0-4)

Ethanol;



Health = 2
Fire = 3
Reactivity = 0



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Relevant 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.

H302 Harmful if swallowed.

H317 May cause allergic skin reaction.

H319 Causes serious eye irritation.

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative