

MATERIAL SAFETY DATA SHEET

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

1.1 Product Name:

FL BOND II "BONDING AGENT"

1.2 Company /Undertaking identification

Manufacturer's Name: **SHOFU INC.**

Address: 11 Kamitakamatsu-cho, Fukunine, Higashiyama-ku, Kyoto 605-0983 ,JAPAN

Phone: +81-75-561-1112

Fax: +81-75-561-2273

Section in Charge: Quality Assurance Section

Date Prepared 2011.10.25

1.3 Emergency Telephone Number

+81-75-561-1112

2. Hazards identification

GHS CLASSIFICATION

PHYSICAL HAZARDS	FLAMMABLE LIQUIDS	Not Classified
HEALTH HAZARDS	ACUTE TOXICITY- ORAL	Not Classified
	ACUTE TOXICITY- DERMAL	Not Classified
	SKIN CORROSION/IRRITATION	Category 2
	EYE DAMAGE/IRRITATION	Category 2A
	SENSITIZATION- SKIN	Category 1
	GERM CELL MUTAGENICITY	Not Classified
	TOXIC TO REPRODUCTION	Not Classified
	SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (SINGLE EXPOSURE)	Not Classified
	SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (REPEATED EXPOSURE)	Category 2(kidney)

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

LABEL ELEMENTS

SYMBOL



SIGNAL WORD

Warning

HAZARD STATEMENTS

Causes skin irritation
 May cause allergic skin reaction
 Causes serious eye irritation
 Warning May cause damage to organs through prolonged or repeated exposure(kidney)

PRECAUTIONARY STATEMENTS

[Prevention]
 Obtain special instruction before use.
 Do not handle until all safety precautions have been read and understood.
 Wear protective gloves and eye/face protection.
 Do not breathe dust/fume/gas/mist/vapours/spray.
 Contaminated work clothing should not be allowed out of the workspace.
 Keep container tightly closed.
 Wash hands thoroughly after handling.

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Avoid release to the environment.

[Response]

If in eyes, rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do.

If eye irritation persists, get medical advice/attention.

If on skin, wash with plenty of soap and water. If on skin, skin irritation, get medical advice/attention.

If you feel un- well, get medical advice/attention.

Take of immediately contaminated clothing

Wash contaminated clothing befor reuse.

[Storage]

Store in a cool and dark area.(Keep refrigerated when not in use)

[Disposal]

Dispose of contents and container in accordance with regulation.

3.Composition/information on ingredients

<i>Composition</i>	<i>%</i>	<i>Hazard type</i>
2-Hydroxy Ethyl Methacrylate [Cas No.868- 77- 9]	10~20	Xi
Glass powder [Cas No.65997- 18- 4]	30~40	
UDMA [Cas No.72869- 86- 4]	20~30	
TEGDMA [Cas No.109- 16- 0]	< 10	
Others		

4.First- aid measures

- 4.1 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.
- 4.2 Skin contact :* Wash immediately with saop and plenty of water. If on skin, skin irritation, get medical advice/attention.
- 4.3 Ingestion :* Rinse mouth. Get medical advice/attention.
- 4.4 Inhalation :* Remove victim to flesh air and keep at rest in a position comfortable for breathing. If symptom concerning breath göse out, call a POISON CENTER to doctor.

5.Fire- fighting measures

- 5.1 Suitable Extinguishing Media:* CO2, Dry chemical, Foam
- 5.2 Extinguishing Media Should not be used :* N/A
- 5.3 Special Exposure Hazards Arising* Irritation gases and fumes may emit.
- 5.4 Special Protective Equipment:* Wear fire protective cloth and self- contained breathing apparatus if necessary.

6.Accidental release measures

- 6.1 Personal Precautions:* Avoid eye and skin contact. See section 8
- 6.2 Environmental Precautions:* Send to approved treatment/disposal company or dispose according to local, state and federal regulations.
- 6.3 Methods for Cleaning Up:* Wipe up and discard in a suitable container.

7.Handing and storage

- 7.1 Handling* Avoid prolonged skin contact with uncured resin.
- 7.2 Storage:* Store in a cool and dark area.(Keep refrigerated when not in use)

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8. Exposure controls/personal protection

<i>8.1 Exposure limits:</i>	ACGIH TLV. None assigned
<i>8.2 Respiratory Protection:</i>	Not required (use protective gas mask for organic gas, if necessary)
<i>8.3 Hand Protection:</i>	Latex or rubber gloves
<i>8.4 Eye Protection:</i>	Safety goggles (May be required)
<i>8.5 Skin Protection:</i>	Not required (Observe normal care when working with chemicals.)

9. Physical and chemical properties

<i>9.1 Appearance/Odour/pH</i>	Viscous liquid with sweet odour from acrylate.
<i>9.2 Boiling Point/Boiling Range:</i>	N/D
<i>9.3 Melting Point/Melting Range:</i>	N/D
<i>9.4 Flash point:</i>	113 °C
<i>9.5 Auto flammability:</i>	N/D
<i>9.6 Explosive Properties:</i>	N/D
<i>9.7 Oxidizing Properties:</i>	N/D
<i>9.8 Vapour Pressure:</i>	N/D
<i>9.9 Relative Density:</i>	1.5 (water=1)
<i>9.10 Solubility: water solubility</i>	Insoluble

10. Stability and reactivity

<i>10.1 Stability:</i>	Stable under recommended storage conditions.
<i>10.2 Reactivity:</i>	Polymerization will occur with heat, light.
<i>10.3 Condition to avoid:</i>	Avoid excess heat, flame and other source of ignition.
<i>10.4 Materials to avoid:</i>	Strong oxidizing materials.

11. Toxicological information

(2-Hydroxy Ethyl Methacrylate)			
Acute toxicity :	ORL- RAT	LD50	5050 mg/kg
	ORL- MUS	LD50	3275 mg/kg

12. Ecological information

The product should not be allowed to drain into sewers.

13. Disposal considerations

Dispose of contents/container to in accordance with local/regional/national/international regulations.

14. Transport information

Airline restriction information ; It doesn't correspond
 UN No. ; It doesn't correspond
 Sea restriction information ; It doesn't correspond
 UN No. ; It doesn't correspond

15. Regulatory information

Follow all regulations in your country.

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16. Other information

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