

# MATERIAL SAFETY DATA SHEET

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

### 1.1 Product Name:

FL BOND II "ETCHANT"

### 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

HEALTH HAZARDS	ACUTE TOXICITY- ORAL	Not Classified
	ACUTE TOXICITY- DERMAL	Not Classified
	SKIN CORROSION/IRRITATION	Category 1A
	EYE DAMAGE/IRRITATION	Category 1
	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

Danger

#### HAZARD STATEMENTS

Causes severe skin burns and eye damage

Causes serious eye damage

#### 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.

Wash hands thoroughly after handling.

[Response]

If inhaled, remove victim to fresh air and keep at rest in a position comfortable for breathing.

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

Remove contact lenses, if present and easy to do.

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

Take off immediately contaminated clothing.

**MATERIAL SAFETY DATA SHEET**

Wash contaminated clothing before reuse.

If swallowed, rinse mouth. Get medical advice/attention.

[Storage]

Store under normal dry conditions. Keep containers closed.

[Disposal]

Dispose of contents and container in accordance with regulation.

**3. Composition/information on ingredients**

<i>Composition</i>	<i>%</i>	<i>Hazard type</i>
Phosphoric acid [Cas No.7664- 38- 2]	< 7	C
Pure water [Cas No.7732- 18- 5]	≈ 90	
Fumed silica		
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 soap 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 fresh air and keep at rest in a position comfortable for breathing. If symptom concerning breath goes out, call a POISON CENTER to doctor.

**5. Fire- fighting measures***This product is non- flammable.*

- 5.1 Suitable Extinguishing Media:* N/A
- 5.2 Extinguishing Media Should not be used :* N/A
- 5.3 Special Exposure Hazards Arising* N/A
- 5.4 Special Protective Equipment:* N/A

**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. Handling and storage**

- 7.1 Handling* Avoid contact with skin and eye. Avoid prolonged inhalation. Local dust extraction measures are recommended.
- 7.2 Storage:* Store under normal dry conditions. Keep containers closed. Keep out of reach of children.

**8. Exposure controls/personal protection**

- 8.1 Exposure limits:*
- |                 |   |
|-----------------|---|
| Phosphoric acid |   |
| [ACGIH 2004]    | TLV : 1 mg/m <sup>3</sup> (TWA), 3 mg/m <sup>3</sup> (STEL) |
| NIOSH REL :     | TWA 1 mg/m <sup>3</sup> , ST 3 mg/kg                        |
| OSHA PEL :      | TWA 1 mg/m <sup>3</sup>                                     |
| [DFG 2005]      | MAK : (Inhalable fraction) 2 mg/m <sup>3</sup>              |
- 8.2 Respiratory Protection:* Not required (use protective gas mask for organic gas, if necessary)

## MATERIAL SAFETY DATA SHEET

<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.)

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### 9. Physical and chemical properties

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<i>9.1 Appearance/Odour/pH</i>	Odorless blue- colored jelly
<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>	N/D
<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>	≅ 1.0 (water=1)
<i>9.10 Solubility: water solubility</i>	Soluble in all purport

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### 10. Stability and reactivity

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<i>10.1 Stability:</i>	Stable under normal condition and handling
<i>10.2 Reactivity:</i>	N/A
<i>10.3 Condition to avoid:</i>	Sunlight, heat, contact with incompatible materials.
<i>10.4 Materials to avoid:</i>	Alkaline substance, Metals

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### 11. Toxicological information

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(Phosphoric acid)

Acute toxicity :

[Emergency Response Guidebook]

TOXIC ; inhalation, ingestion, or skin contact with material may cause sevsre injury or death.

Harmful if swallowed.

May be harmful in contact with skin.

May irritate the respiratory tract.

Oral toxicity ;

rat	LD50	1250 mg/kg
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	LD50	1530 mg/kg
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Dermal toxicity ;

rabbit	LD50	2740 mg/kg
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Irritant properties ;

Corrosive to the eyes, the skin.

Teratogenic effects ;

[DFG 2005] MAK ; Pregnancy risk group : C

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### 12. Ecological information

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The product should not be allowed to drain into sewers.

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### 13. Disposal considerations

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

# MATERIAL SAFETY DATA SHEET

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**14. Transport information**

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UN Hazard Class: 8, Pack Group: III, (UN No.1805 as Phosphoric acid, solution)

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**15. Regulatory information**

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Follow all regulations in your country.

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**16. Other information**

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