

MATERIAL SAFETY DATA SHEET

1. Identification of the Product and the Company

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 ,JAPAN

Phone Number for Information: 81-75-561-1112

Date Prepared: 5/17/2007

1.3 Emergency Telephone Number

81-75-561-1112

2. Composition/Information on Ingredients

| Composition | Cas no. | % | Hazard type |
|------------------------------|------------|--------|-------------|
| 2-Hydroxy Ethyl Methacrylate | 868-77-9 | 100`20 | irritant |
| Glass powder | 65997-18-4 | 300`40 | |
| UDMA | 72869-86-4 | 200`30 | |
| TEGDMA | 109-16-0 | 0010 | |
| Others | | | |

3. Hazardous Identification

3.1 Route of En: Inhalation :No Skin:possible Ingestion: possible

3.2 Health Hazard(Acute and Chronic) :May cause sensitization for skin, eyes and mucous membrane.

3.3 Carcinogenicity :No

3.4 Hazard Designation: Irritant preparation. Symbol is Xi

4. First Aid Measures

4.1 Eye contact :Rinse immediately with plenty of water and seek medical advice.

4.2 Skin contact Wash immediately with plenty of water and soap.

4.3 Ingestion : Seek medical advice if necessary.

5. Fire-fighting Measures

5.1 Suitable Extinguishing Media: CO2, dry chemical, Foam

5.2 Extinguishing Media Should not be used :

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. Handling 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)

8. Exposure Controls/Personal Protection

8.1 Exposure limits: ACGIH TLV.

None assigned.

8.2 Respiratory Protection: Not required(use protective gas mask for organic gas, if necessary)

8.3 Hand Protection: Latex or rubber gloves

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- 8.4 Eye Protection: Safety goggles (May be required)
8.5 Skin Protection: Not required (Observe normal care when working with chemicals.)

9. Physical And Chemical Properties

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

10. Stability And Reactivity

- 10.1 Condition to Avoid: Visible light on paste
10.2 Materials to Avoid: Strong oxidizing materials
10.3 Hazardous Decomposition Products: Will not occur

11. Toxicological Information

- Inhalation of the vapor ,may cause headache, dizziness and vomiting.
May causes severe burns. Harmful in contact with skin and if swallowed.
Chronic exposure may cause reproductive harm. May act as a sensitizer.
- 11.1 Acute Toxicity: ORL-RAT 0kDc50 5050 mg/kg as 2-Hydroxy Ethyl Methacrylate
 ORL-MUS 0kDc50 3275 mg/kg

12. Ecological Information

Don't discard into the drain.

13. Disposal Conditions

Disposal in accordance with federal, state and local regulations.

14. Transport Information

15. Regulatory Information

16. Other Information

Handling of this product exclusively by dental specialists according to instruction for use.