

	Printing date: April 1, 2020		
SECTIO	ON 1. Identification of the substance or mixture and of the supplier		
1.1	Product identifier		
	Trade Name:		
	FL-BOND II "BONDING AGENT"		
1.2	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 date sheet		
	Company/Undertaking identification		
	Manufacturer's Name: SHOFU DENTAL GmbH		
	Address: An der Pönt 70, 40885 Ratingen, Germany		
	Phone: +49 (0) 2102-8664-0		
	Fax: +49 (0) 2102-8664-64		
	E-Mail: info@shofu.de		
	Section in Charge: Quality Management & Regulatory Affairs		
1.4	Emergency Telephone Number		
	+49-2102-8664-53 (SHOFU DENTAL GmbH) 24 hours / 7 days		
SECTIO	ON 2. Hazards identification		
2.1	Classification of the substance or mixture		
	CLASSIFICATION (EC 1272/2008)		
	Skin Irrit. 2 H315 Causes skin irritation		
	Skin Sens. 1 H317 May cause an allergic skin reaction		
	Eye Irrit. 2 H319 Causes serious eye irritation		
2.2	Label elements		
	LABEL IN ACCORDANCE WITH (EC) NO.1272/2008		
	GHS07		
	HAZARD-DETERMINING COMPONENTS OF LABELLING		
	UDMA		
	2-hydroxyethyl methacrylate		
	SIGNAL WORD		
	Warning HAZARD STATEMENTS		
	H315 Causes skin irritation.		
	H317 May cause an allergic skin reaction.		
	H319 Causes serious eye irritation.		
	PRECAUTIONARY STATEMENTS		
	P280 Wear protective gloves/protective clothing/eye protection/face		
	protection.		
	(Contd. on page2)		



	(Contd. on page1)
P302+P3	52
	IF ON SKIN: Wash with plenty of soap and water.
P305+P3	51+P338
	IF IN EYES: Rinse cautiously with water for several minutes.
	Remove contact lenses, if present and easy to do. Continue rinsing.
P501	Dispose of contents/container in accordance with
	local/regional/national/international 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:

	Cas: 72869-86-4 EINECS: 276-957-5	UDMA	
		Skin Irrit. 2 H315, Skin Sens. 1 H317 Eye Irrit. 2 H319	20-30 %
	Cool 969 77 0	2-hydroxyethyl methacrylate	
-	Cas: 868-77-9 EINECS: 212-782-2	Skin Irrit. 2 H315, Skin Sens. 1 H317 Eye Irrit. 2 H319	10-20 %

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	ct lenses, if
		present. and easy to do. If eye irritation persists, get medical ad	vice/attention.
	Skin contact:	Wash immediately with soap and plenty of water. If on skin, skir	irritation, get
		medical advice/attention.	
Ingestion: Rinse mouth. Get medical advice/attention.			
	Inhalation:	Remove victim to fresh air and keep at rest in a position comfort	able for breathing.
		If symptom concerning breath goes out, call a POISON CENTE	R or doctor.
4.2	Most importar	nt symptoms and effects, both acute and delayed	
	No furth	er relevant information available.	
4.3	Indication of any immediate medical attention and special treatment needed		
	No furth	er relevant information available.	
SECTIO	ON 5. Fire-fig	Inting measures	
5.1	Extinguishing	Media:	
	CO ₂ , Dr	y chemical, Foam, Dry sand	
5.2	Special hazar	ds arising from the substance or mixture:	
	No furth	er relevant information available.	(Contd. on page3)
			Varaian Number F



(Contd. on page2)

		(Contd. on page2)		
5.3	Advice for firefighte			
	Wear fire pro	tective cloth and self-contained breathing apparatus, if necessary.		
SECTIO	ON 6. Accidental	release measures		
6.1	Personal precautio	ns, protective equipment and emergency procedures:		
	Avoid eye an	d skin contact.		
6.2	Environmental Pred	cautions:		
	Send to approved treatment/disposal company or dispose according to local, state and federal regulations.			
6.3	.			
0.0	Absorb with s	suitable absorbent (e.g. paper towel, cloth, dry sand, saw dust and vermiculite)		
		n a suitable 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.		
SECTIO	ON 7. Handling ar	nd storage		
	Precautions for saf			
		ion of grindings and prolonged skin contact with uncured resin.		
7.2		storage, including any incompatibilities:		
		ol and dark area. (Keep refrigerated when not in use.)		
73	Specific end use(s)			
1.0	• • • • • • • • •	/- levant information available.		
SECTIO		ontrols/personal protection		
8.1	Control parameters			
0.1	•	hit values that require monitoring at the workplace:		
	•	does not contain any relevant quantities of materials with critical values that		
	•			
		ionitored at the workplace.		
8.2	Exposure controls:			
	Respiratory Protect			
		Required (use dust mask while grinding or finishing.)		
	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.		
		(Contd. on page4)		
		Version Number 5		



SAFETY DATA SHEET

(Contd. on page3)

	(Contd. on page3)
 Material of gloves 	
the materia manufactur of several s not be calc prior to the · Penetration time of g The exact l manufactur	break through time has to be found out by the rer of the protective gloves and has to be observed. ontact of a maximum of 15 minutes gloves made of
Butyl rubbe	
Nitrile rubb	
Eye Protection: Safety goggles	
Lyer rolection. Salety goggies	
SECTION 9. Physical and chemical properties	
9.1 Information on basic physical and chemical p	properties
Appearance/Odor/Colour:	Viscous liquid with sweet odor from acrylate.
Odour threshold	Not determined.
pH	Not determined.
•	Not determined.
Melting point/freezing point Boiling Point:	Not determined.
-	113 °C
Flash point:	Not determined.
Evaporation rate	
Flammability (solid, gas)	Not applicable. Not determined.
Upper/lower flammability or explosive limits	Not determined.
Vapour pressure	
Vapour density	Not determined.
Relative Density:	1.5 (water=1)
Solubility: water solubility	Insoluble
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 availab	le.
SECTION 10. Stability and reactivity	
10.1 Reactivity:	
Polymerization will occur with heat, light	nt.
10.2 Chemical stability:	
Stable under normal temperatures and	pressures. (Contd. on page5)
-	pressures. (Contd. on page5 Version Number 5



(Contd. on page4)

(Contd. on page4)		
10.3 Possibility of hazardous reactions:		
No dangerous reactions known.		
.4 Condition to Avoid:		
Direct sunlight, high temperature and heating.		
10.5 Incompatible materials:		
Strong oxidizing materials.		
10.6 Hazardous Decomposition Products:		
None under normal conditions of storage and use.		
None under hormal conditions of storage and use.		
SECTION 11. Toxicological information		
11.1 Information on toxicological effects:		
Acute toxicity: 2-Hydroxy Ethyl Methacrylate;		
5 5		
Dermal rabbit LD50 > 3000 mg/kg		
Skin corrosion/irritation: Skin Irrit. 2; H315 Causes skin irritation.		
Eye damage/irritation: Eye Irrit. 2; H319 Causes serious eye irritation.		
Sensitization to the respiratory tract:		
Based on available data, the classification criteria are not met.		
Skin sensitization: Skin Sens. 1; H317 May cause an allergic skin reaction.		
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.		
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.		
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.		
(Contd. on page6)		



(Contd. on page5)

SECTION 13. Disposal consideration 13.1 Waste treatment methods:	
13.1 Waste treatment methods:	ons
	ntainer to in accordance with local/regional/national/international
SECTION 14. Transport information	
14.1 UN number:	Void
14.2 UN proper shipping name:	Void
14.3 Transport hazard class(es):	Void
14.4 Packing group:	Void
14.5 Environmental hazards:	No further relevant information available.
14.6 Special precautions for user:	Not applicable. Annex II of MARPOL73/78 and the IBC Code:
	Not applicable.
SECTION 15. Regulatory information	on
 Other regulations, limitations The product is a medica 15.2 Chemical safety assessment: 	ee Section 2 s and prohibitive regulations: al device according to the EC-directive 93/42/EEC. essment has not been carried out.
SECTION 16 Other information	
SECTION 16. Other information This product is intended for us	se by dental professionals. (instrument/material)
This product is intended for us	se by dental professionals. (instrument/material)
This product is intended for us Relevant phrases:	
This product is intended for us Relevant phrases: H315 Causes skin in	ritation.
This product is intended for us Relevant phrases: H315 Causes skin in	ritation. allergic skin reaction.
This product is intended for us Relevant phrases: H315 Causes skin in H317 May cause an	ritation. allergic skin reaction.
This product is intended for us Relevant phrases: H315 Causes skin in H317 May cause an H319 Causes seriou Abbreviations and acronyms: EINESC: European Inve	ritation. allergic skin reaction. s eye irritation. entory of Existing Commercial Chemical Substances
This product is intended for us Relevant phrases: H315 Causes skin in H317 May cause an H319 Causes seriou Abbreviations and acronyms: EINESC: European Inve CAS: Chemical Abstrac	ritation. allergic skin reaction. s eye irritation. entory of Existing Commercial Chemical Substances ts Service (division of the American Chemical Society)
This product is intended for us Relevant phrases: H315 Causes skin in H317 May cause an H319 Causes seriou Abbreviations and acronyms: EINESC: European Inve CAS: Chemical Abstrac LD50: Lethal dose, 50 p	ritation. allergic skin reaction. s eye irritation. entory of Existing Commercial Chemical Substances ts Service (division of the American Chemical Society) percent
This product is intended for us Relevant phrases: H315 Causes skin in H317 May cause an H319 Causes seriou Abbreviations and acronyms: EINESC: European Inve CAS: Chemical Abstrac LD50: Lethal dose, 50 p PBT: Persistent, Bioacc	ritation. allergic skin reaction. s eye irritation. entory of Existing Commercial Chemical Substances ts Service (division of the American Chemical Society) percent umulative and Toxic
This product is intended for us Relevant phrases: H315 Causes skin in H317 May cause an H319 Causes seriou Abbreviations and acronyms: EINESC: European Inve CAS: Chemical Abstrac LD50: Lethal dose, 50 p PBT: Persistent, Bioacc	ritation. allergic skin reaction. s eye irritation. entory of Existing Commercial Chemical Substances ts Service (division of the American Chemical Society) bercent
This product is intended for us Relevant phrases: H315 Causes skin in H317 May cause an H319 Causes seriou Abbreviations and acronyms: EINESC: European Inve CAS: Chemical Abstrac LD50: Lethal dose, 50 p PBT: Persistent, Bioacc	ritation. allergic skin reaction. s eye irritation. entory of Existing Commercial Chemical Substances ts Service (division of the American Chemical Society) percent umulative and Toxic
This product is intended for us Relevant phrases: H315 Causes skin in H317 May cause an H319 Causes seriou Abbreviations and acronyms: EINESC: European Inve CAS: Chemical Abstrac LD50: Lethal dose, 50 p PBT: Persistent, Bioacc	ritation. allergic skin reaction. s eye irritation. entory of Existing Commercial Chemical Substances ts Service (division of the American Chemical Society) percent umulative and Toxic
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SECTIO	ON 1. Identification of the substance/mixture and of the company/undertaking		
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			
	Company/Undertaking identification		
	Manufacturer's Name: SHOFU DENTAL GmbH		
	Address: An der Pönt 70, 40885 Ratingen, Germany		
	Phone: +49 (0) 2102-8664-0		
	Fax: +49 (0) 2102-8664-64		
	E-Mail: info@shofu.de		
	Section in Charge: Quality Management & Regulatory Affairs		
1 1			
1.4	Emergency Telephone Number		
	+49-2102-8664-53 (SHOFU DENTAL GmbH) 24 hours / 7 days		
SECTIO			
2.1	Classification of the substance or mixture		
	CLASSIFICATION (EC 1272/2008)		
	Flam.liq. 2 H225 Highly flammable liquid and vapour		
	Eye Irrit. 2 H319 Causes serious eye irritation		
2.2	Label elements		
	LABEL IN ACCORDANCE WITH (EC) NO.1272/2008		
	GHS02 GHS07		
	HAZARD-DETERMINING COMPONENTS OF LABELLING		
	Ethanol		
	SIGNAL WORD		
	Danger		
	HAZARD STATEMENTS		
	H225 Highly flammable liquid and vapour.		
	H319 Causes serious eye irritation.		
	PRECAUTIONARY STATEMENTS		
	P210 Keep away from heat/sparks/open flames/hot surfaces.		
	- No smoking.		
	P233 Keep container tightly closed.		
	P242 Use only non-sparking tools.		
	(Contd. on page2)		
L	(Conta: on pagez)		



		D 000	(Contd. on page1)
		P280	Wear protective gloves/protective clothing/eye protection/face protection.
		P303+P3	•
			IF ON SKIN (or hair): Remove/Take off immediately all contaminated
			clothing. Rinse skin with water/shower.
		P264	Wash hands thoroughly after handling.
		P305+P3	51+P338
			IF IN EYES: Rinse cautiously with water for several minutes.
			Remove contact lenses, if present and easy to do. Continue rinsing.
		P337+P3	13
			If eye irritation persists: Get medical advice/attention.
		P403+P3	25
			Store in a well-ventilated place. Keep cool.
		P501	Dispose of contents/container in accordance with
			local/regional/national/international regulation.
2.3	Other hazards		
2.0	-		t 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:

Cas: 64-17-5	Ethanol	30-35 %
EINECS: 200-578-6	Flam. Liq. 2 H225, Eye Irrit. 2 H319	30-35 %

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.Skin contact:Wash immediately with soap and plenty of water. If on skin, skin irritation, get

- medical advice/attention.
- Ingestion: Rinse mouth. Get medical advice/attention.

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.

(Contd. on page3)



(Contd. on page2)

SECTIC	ON 5. Fire-figh	ting measures			(, , , , , , , , , , , , , , , , , , ,
5.1					
	CO ₂ , Dry chemical, Foam, Dry sand				
5.2	-	s arising from the substance	or mixture:		
	Easily fla	mmable liquid in room temp.			
	In case o	f fire, irritation gasses and fu	mes may emit.		
5.3	Advice for firefig	ghters:			
	Wear fire	protective cloth and self-con	tained breathing	apparatus, if nec	essary.
					-
SECTIO	ON 6. Acciden	tal release measures			
6.1		utions, protective equipment	and emergency i	orocedures:	
0.1	•	ntact with eyes and skin.			
6.2	Environmental	•			
0.2					least state and
		approved treatment/disposal	company or dispo	ose according to	local, state and
		egulations.			
6.3		aterial for containment and c			
	Wipe up and discard in a suitable container.				
6.4	Reference to of				
	See Section 7 for information on safe handling.				
	See Sect	ion 8 for information on perso	onal protection ec	quipment.	
	See Sect	ion 13 for disposal informatio	n.		
SECTIO	ON 7. Handlin	g and storage			
7.1	Precautions for				
		a well ventilated place.			
		ay from naked flames, sparks	s and sources of	heat. No smoking	J.
7.2		afe storage, including any in			,
		tainer tightly closed. Store in	•	fireproof area	
	•	•••	a bool, dant and		
7.3	Separated from strong oxidants.				
7.5	.3 Specific end use(s): No further relevant information available				
	No fultite		ne -		
00000					
SECTIO		re controls/personal protec	tion		
8.1	Control parame				
	Exposure limits	:	I	1	
	Component		ACGIH (TLV)	NIOSH REL	OSHA PEL
	Ethanol	TWA: 1000 ppm TWA;	TWA 1000	TWA 1000	TWA 1000
		1920 mg/m ³ TWA	ppm	ppm (1900	ppm (1900
		WEL-STEL: 3000 ppm		mg/m ³)	mg/m ³)
		STEL; 5760 mg/m ³ STEL			
		ŬŬ			·J
8.2	Exposure contr	ols:			
5.2	Respiratory Protection:				
		Not required.			
					(Contd. on page4)



			(Contd. on page3)
	Skin Protection:	Hand Protection	
		-	to be impermeable and resistant to the product/ the
		substance/ the prepara	
		-	p recommendation to the glove material can be given
			paration/the chemical mixture.
		•	naterial on consideration of the penetration times,
		rates of diffusion and th	e degradation.
		• Material of gloves	
		the materia manufactur	on of the suitable gloves does not only depend on al, but also on further marks of quality and varies from rer to manufacturer. As the product is a preparation
		not be calc	substances, the resistance of the glove material can ulated in advance and has therefore to be checked
			application.
		 Penetration time of g 	
			break through time has to be found out by the
			rer of the protective gloves and has to be observed.
		•	ontact of a maximum of 15 minutes gloves made of
		the following material	
		Butyl rubbe Nitrile rubb	
	Eye Protection:	Safety goggles	
		Salety goggles	
SECTIO	ON 9. Physical and	l chemical properties	
9.1	Information on basic	c physical and chemical p	properties
	Appearance/Odor/C	olour:	Colorless transparent liquid with alcohol odor
	Odour threshold		Not determined.
	рН		Not determined.
	Melting point/freezin	ig 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		ibility or explosive limits	Not determined.
Vapour pressure			Not determined.
	Vapour density Relative Density		Not determined.
	Relative Density: Solubility: water solubility		≈ 1 (water=1) Soluble
	Solubility: water solubility Partition coefficient: n-octanol/water		Not determined.
			Not determined.
	Auto-ignition temperature		Not determined.
	Decomposition temperature		Not determined.
	Viscosity Explosive properties		Not applicable.
	Oxidising properties		Not applicable.
1			F F



		(Contd. on page4)			
9.2	Other information				
	No further relevant information available.				
	ON 10. Stability and react	ivity			
10.1	Reactivity:				
10.0		nformation available.			
10.2	2 Chemical stability:				
10.0	Stable under normal temperatures and pressures.				
10.3	3 Possibility of hazardous reactions:				
	No dangerous reactions known.				
10.4	4 Condition to Avoid:				
10 5	Avoid direct sunlight, excess heat, flame and other source of ignition.				
10.5	.5 Incompatible materials:				
10.0	Strong oxidizing materials.				
10.6	Hazardous Decomposition				
	None under normal	conditions of storage and use.			
SECTIC	ON 11. Toxicological info	rmation			
	Information on toxicologica				
11.1	Acute toxicity:	Ethanol;			
	Addie toxicity.	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. 2; H319 Causes serious eye irritation.			
	Sensitization to the respira				
		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/Ge	enotoxicity:			
		Based on available data, the classification criteria are not met.			
	Carcinogenicity:	Ethyl alcohol:			
		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 toxic	ity (single exposure):			
		Based on available data, the classification criteria are not met.			
	Specific target organ toxic	ity (repeated exposure):			
		Based on available data, the classification criteria are not met.			
	Aspiration hazard:	Based on available data, the classification criteria are not met.			
	ON 12. Ecological information	ation			
12.1	Toxicity:				
40.0	No further relevant information available.				
12.2 Persistence and degradability:					

No further relevant information available.

(Contd. on page6)



	(Contd. on page5)		
12.3 Bioaccumulative potential:			
No further relevant information a	available.		
12.4 Mobility in soil:			
No further relevant information a			
12.5 Results of PBT and vPvB assessment	:		
Not applicable.			
12.6 Other adverse effects:			
No further relevant information a	ivailable.		
SECTION 13. Disposal considerations			
13.1 Waste treatment methods:			
-	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:	Warning: Flammable liquids.		
14.7 Transport in bulk according to Annex I	of MARPOL73/78 and the IBC Code:		
	Not applicable.		
SECTION 15. Regulatory information			
	lations/legislation specific for the substance or mixture:		
EU REGULATIONS: See Section			
Other regulations, limitations and pro			
-	according to the EC-directive 93/42/EEC.		
15.2 Chemical safety assessment:			
A Chemical Safety Assessment	has not been carried out.		
SECTION 16. Other information			
This product is intended for use by der	ntal professionals. (instrument/material)		
Relevant phrases:			
H225 Highly flammable liquid	l and vapour.		
H319 Causes serious eye irri			
Abbreviations and acronyms:			
	Existing Commercial Chemical Substances		
	e (division of the American Chemical Society)		
LC50: Lethal concentration, 50 p			
LD50: Lethal dose, 50 percent			
PBT: Persistent, Bioaccumulativ	e and Toxic		
vPvB: very Persistent and very E			
	วเปลงบนไไนเล่นเช		