

	Printing date: April 1, 2020
SECTIO	DN 1. Identification of the substance or mixture and of the supplier
1.1	Product identifier
	Trade Name:
	FL-BOND II "BONDING AGENT"
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
13	Details of the supplier of the safety date sheet
1.5	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	DN 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	352
	IF ON SKIN: Wash with plenty of soap and water.
P305+P	351+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: 70000.00.4	UDMA	
Cas: 72869-86-4 EINECS: 276-957-5	Skin Irrit. 2 H315, Skin Sens. 1 H317 Eye Irrit. 2 H319	20-30 %
	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.

SECTI	ON 4. First-a	id measures	
4.1	Description of	first aid measures	
	Eye contact:	Rinse cautiously with water for several minutes. Remove co	ontact lenses, if
		present. and easy to do. If eye irritation persists, get medica	al 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 con	nfortable for breathing.
		If symptom concerning breath goes out, call a POISON CE	NTER or doctor.
4.2	Most importar	nt symptoms and effects, both acute and delayed	
	No furth	ner relevant information available.	
4.3	Indication of a	any immediate medical attention and special treatment neede	d
	No furth	ner relevant information available.	
SECTIO	ON 5. Fire-fig	phting 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	ner relevant information available.	(Contd. on page3)
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(Contd. on page2)

5.2	Advice for firefights	(Conto. on pagez)
5.3	Advice for firefighte	
	Wear fire pro	tective cloth and self-contained breathing apparatus, if necessary.
SECTION	ON 6. Accidental	
6.1	Personal precautio	ns, protective equipment and emergency procedures:
	Avoid eye an	d skin contact.
6.2	Environmental Pre	cautions:
	Send to appr	oved treatment/disposal company or dispose according to local, state and
	federal regula	ations.
6.3		rial for containment and cleaning up:
		suitable absorbent (e.g. paper towel, cloth, dry sand, saw dust and vermiculite)
		n a suitable container.
6.4	Reference to other	
0.4		7 for information on safe handling.
		5
		8 for information on personal protection equipment.
	See Section	13 for disposal information.
SECTION	ON 7. Handling ar	
7.1	Precautions for saf	•
		ion of grindings and prolonged skin contact with uncured resin.
7.2	Conditions for safe	storage, including any incompatibilities:
	Store in a co	ol and dark area. (Keep refrigerated when not in use.)
7.3	Specific end use(s)	:
	No further re	levant information available.
SECTIO	ON 8. Exposure c	ontrols/personal protection
8.1	Control parameters):
	•	it values that require monitoring at the workplace:
	•	does not contain any relevant quantities of materials with critical values that
	•	onitored at the workplace.
8.2	Exposure controls:	
0.2	Respiratory Protect	tion:
	Respiratory i rotec	Required (use dust mask while grinding or finishing.)
	Skin Protection:	Hand Protection
	Skin Piolection.	
		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.



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 I 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	er, BR
	Nitrile rubb	er, NBR
	Eye Protection: Safety goggles	
SECTIC	ON 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.
	рН	Not determined.
	Melting point/freezing point	Not determined.
	Boiling Point:	Not determined.
	Flash point:	113 °C
	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:	1.5 (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.
	ON 10. Stability and reactivity	
10.1	Reactivity:	
	Polymerization will occur with heat, light	ht.
	Chemical stability:	
10.2	Stable under normal temperatures and	



(Contd. on page4)

		(Conta. on page4)
10.3	Possibility of hazardous re	actions:
	No dangerous react	ions known.
10.4	Condition to Avoid:	
	Direct sunlight, high	temperature and heating.
10.5	Incompatible materials:	
1010	Strong oxidizing ma	terials
10.6	Hazardous Decomposition	
10.0	•	
	None under normal	conditions of storage and use.
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	ON 11. Toxicological info	
11.1	Information on toxicologica	
	Acute toxicity:	2-Hydroxy Ethyl Methacrylate;
		Oral rat LD50 5050 mg/kg
		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 respira	atory 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/Ge	
	3 ,	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:	
	Specific target organ toxic	
		Based on available data, the classification criteria are not met.
	Specific target organ toxic	
		Based on available data, the classification criteria are not met.
	Aspiration hazard:	Based on available data, the classification criteria are not met.
SECTIO	ON 12. Ecological information	ation
12.1	Toxicity:	
	No further relevant i	nformation available.
12.2	Persistence and degradab	ility:
	No further relevant i	nformation available.
12.3	Bioaccumulative potential:	
	No further relevant i	nformation available.
12.4	Mobility in soil:	
	-	nformation available.
12.5	Results of PBT and vPvB	
12.0	Not applicable.	
10 6	Other adverse effects:	
12.0		nformation available
	ino further relevant l	nformation available.
		(Contd. on page6)



(Contd. on page5)

SECTION 13. Dispos	(Contd. on page5)
12.1 Wests treatm	
	ent methods:
Dispose	e of contents/container to in accordance with local/regional/national/international
regulati	ions.
SECTION 14. Transp	port information
14.1 UN number:	Void
14.2 UN proper sh	ipping name: Void
14.3 Transport haz	zard class(es): Void
14.4 Packing grou	p: Void
14.5 Environmenta	al hazards: No further relevant information available.
14.6 Special preca	
14.7 Transport in b	oulk according to Annex II of MARPOL73/78 and the IBC Code:
	Not applicable.
SECTION 15. Regula	atory information
	n and environmental regulations/legislation specific for the substance or mixture:
• EU REGUL	
	ations, limitations and prohibitive regulations:
	oduct is a medical device according to the EC-directive 93/42/EEC.
15.2 Chemical safe	ety assessment:
A Chem	nical Safety Assessment has not been carried out.
SECTION 16. Other	
This product i	is intended for use by dental professionals. (instrument/material)
Relevant phra	
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
	Causes serious eye irritation.
H319	-
Abbreviations	s and acronyms:
Abbreviations EINES0	s and acronyms: C: European Inventory of Existing Commercial Chemical Substances
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