

SECTIO	ON 1. Identification of the substance or mixture and of the supplier			
	Product identifier			
1.1	Trade Name:			
10	CERAMAGE "OXY BARRIER"			
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	Details of the supplier of the safety date sheet			
	Company/Undertaking identification			
	Manufacturer's Name: <b>SHOFU INC</b> . Address: 11 Kamitakamatsu-cho, Fukuine, Higashiyama-ku, Kyoto 605-0983, JAPAN			
	Phone: +81-75-561-1112			
	Fax: +81-75-275-4795			
	Section in Charge: Quality Assurance Section			
14	Emergency Telephone Number			
1.4	+81-75-561-1112			
SECTIO	ON 2. Hazards identification			
2.1	GHS Classification			
	HEALTH HAZARDS			
	EYE DAMAGE/IRRITATION Category 2B			
	The thing without mention is out of a classification object. Or cannot classify it.			
2.2	Label elements			
2.2	SYMBOL Void			
	SIGNAL WORD Warning			
	SIGNAL WORD Warning			
	HAZARD STATEMENTS			
	Causes eye irritation			
	PRECAUTIONARY STATEMENTS			
	[Prevention]			
	Do not handle until all safety precautions have been read and understood.			
	Wash hands thoroughly after handling.			
	[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.			
	[Storage]			
	Store in a cool and dark area.			
	[Disposal]			
	Dispose of contents and container in accordance with regulation.			



	Finding date. September 4, 2019
2.3	Other hazards
	Results of PBT and vPvB assessment
	PBT: Not applicable.
	vPvB: Not applicable.
SECTIO	DN 3. Composition/information on ingredients
3.1	Chemical characterization: Mixtures
3.2	Description: -
3.3	Dangerous components: Void
	Glycerin [Cas No. 56-81-5] 70-80 %
	Polyethylene Glycol [Cas No. 25322-68-3]
	Water
	Others
3.4	Additional information: For the wording of the listed risk phrases refer to section 2
0.4	
SECTIO	DN 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 and seek medical advice if necessary.
	Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
4.0	If symptom concerning breath goes out, call a POISON CENTER or doctor.
4.2	Most important symptoms and effects, both acute and delayed
4.0	No further relevant information available.
4.3	Indication of any immediate medical attention and special treatment needed
	No further relevant information available.
SECTIO	
5.1	Extinguishing Media:
5.0	Foam, CO <sub>2</sub> , Powder, Dry sand
5.2	Special hazards arising from the substance or mixture:
	In case of fire, irritation gases and fumes may emit.
5.3	Advice for firefighters:
	Wear fire protective cloth and self-contained breathing apparatus, if necessary.
SECTIO	
6.1	Personal precautions, protective equipment and emergency procedures:
_	Avoid contact with eyes and skin.
6.2	Environmental Precautions:
	Dispose according to local, state and federal regulations.
6.3	Methods and material for containment and cleaning Up:
	Wipe up and discard in a stable 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.

Handling and storage SECTION 7.

Precautions for safe handling: 7.1

Avoid inhalation of grindings and prolonged skin contact with uncured resin.

- 7.2 Conditions for safe storage, including any incompatibilities:
  - Keep away from direct sunlight or heat.
- 7.3 Specific end use(s):

No further relevant information available.

#### SECTION 8. Exposure controls/personal protection

Control parameters: 8.1

**Exposure** limits

Component	ACGIH		
Glycerin	TWA 10 mg/m <sup>3</sup>		
	(Glycerin mist)		

#### 8.2 Exposure controls:

**Respiratory Protection:** 

Not required. 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. · Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. · Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. · For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable: Butyl rubber, BR Nitrile rubber, NBR Eye Protection: Safety goggles **SECTION 9. Physical and chemical properties** 



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	Odour threshold		Not determined.		
	рН		Not determined.		
	Melting point/freezing point		Not determined.		
	Boiling Point:		Not determined.		
	Flash point:		Not determined.		
	Evaporation rate		Not determined.		
	Flammability (solid, gas)		Not applicable.		
	Upper/lower flammability or	r explosive limits	Not determined.		
	Vapour pressure		Not determined.		
	Vapour density		Not determined.		
	Relative Density:		1.25 (water=1)		
	Solubility: water solubility		Soluble		
	Partition coefficient: n-octar	nol/water	Not determined.		
	Auto-ignition temperature		Not determined.		
	Decomposition temperature	Э	Not determined.		
	Viscosity		Not determined.		
	Explosive properties		Not applicable.		
	Oxidising properties		Not applicable.		
9.2	Other information				
	No further relevant in	formation availab	le.		
SECT	ON 10. Stability and reactive	vity			
10.	1 Reactivity:				
	No further relevant in	formation availab	le.		
10.	2 Chemical stability:				
	Stable under normal	temperatures and	d pressures.		
10.3	3 Possibility of hazardous real	actions:			
	No dangerous reaction	ons known.			
10.4	4 Condition to Avoid:				
	Avoid exposure to dir	rect sun light on th	ne container.		
10.	5 Incompatible materials:				
	Strong oxidizing mate	erials.			
10.	6 Hazardous Decomposition	Products:			
	None under normal c	onditions of stora	ge and use.		
SECT	ON 11. Toxicological infor	mation			
11.	1 Information on toxicological				
	Acute toxicity;	Glycerin; Oral	rat	LD50	12600 mg/kg
		Dermal	rabbit	LD50	> 10 g/kg
		Inhalatio	on rat	LC50	> 570 mg/m <sup>3</sup> /1H
		Polyethylene Gly	rcol;		
		Oral	rat	LD50	30200 mg/kg
	Skin corrosion/irritation:	Based on availab	ole data, the classi	fication c	riteria are not met.
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Eye damage/irritation: Eye Irrit. 2B; H320 Causes eye irritation.

Sensitization to the respiratory tract:

Based on available data, the classification criteria are not met.



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	Skin sensitization:	Based on available data, the classification criteria are not met.			
	Germ cell mutagenicity/Ge				
	6 ,	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 toxicity (single exposure):				
	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			
	Toxicity:				
		nformation available.			
12.2	Persistence and degradab				
12.2	-	nformation available.			
123	Bioaccumulative potential:				
12.0	•	nformation available.			
10.4	Mobility in soil:				
12.4	•	ofermation available			
40 5		nformation available.			
12.5	Results of PBT and vPvB	assessment:			
	Not applicable.				
12.6	Other adverse effects:				
	No further relevant in	nformation available.			
SECTIC	ON 13. Disposal consider	ations			
	Waste treatment methods:				
13.1					
	Dispose of contents/container to in accordance with local/regional/national/international				
	regulations.				
SECTIC	ON 14. Transport informa	lion			
	UN number:	Void			
	UN proper shipping name:				
	Transport hazard class(es)				
	Packing group:	Void			
-	Environmental hazards:	No further relevant information available.			
	Special precautions for use				
14.7	Transport in bulk according	g to Annex II of MARPOL73/78 and the IBC Code:			
		Not applicable.			
SECTIC	ON 15. Regulatory inform	ati			
o conc	Follow all regulations in yo				
		our oounty.			
		(Contd. on page6)			



