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

1.1 Product Name:

HY-Bond Polycarboxylate Cement "POWDER"

1.2 Company /Undertaking identification

Manufacturer's Name: SHOFU INC.

Address: 11 Kamitakamatsu-cho, Fukuine, Higashiyama-ku, Kyoto 605-0983 ,JAPAN Phone: +81-75-561-1112 Fax: +81-75-561-2273 Section in Charge: Quality Assurance Section Date Prepared: 2014.9.25 1.3 Emergency Telephone Number

+81-75-561-1112

2.Hazards identification

FLAMMABLE SOLIDS	Not Classified
PYROPHORIC SOLIDS	Not Classified
SELF-HEATING SUBSTANCES AND MIXTURES	Not Classified
SUBSTANCES AND MIXTURES WHICH, IN CONTAC	CT Not Classified
WITH WATER, EMIT FLAMMABLE GASA	S
OXIDIZING SOLIDS	Not Classified
ACUTE TOXICITY-ORAL	Not Classified
ACUTE TOXICITY-INHALATION(DUST)	Not Classified
SKIN CORROSION/IRRITATION	Category 2
EYE DAMAGE/IRRITATION	Category 1
SENSITIZATION-SKIN	Not Classified
CARCINOGENICITY	Not Classified
TOXIC TO REPRODUCTION	Not Classified
SPECIFIC TARGET ORGAN SYSTEMIC	Category 1
TOXICITY (SINGLE EXPOSURE)	(systemic toxicity)
SPECIFIC TARGET ORGAN SYSTEMIC	Category 1(lung)
TOXICITY (REPEATED EXPOSURE)	Category 2(bone)
	PYROPHORIC SOLIDS SELF-HEATING SUBSTANCES AND MIXTURES SUBSTANCES AND MIXTURES WHICH,IN CONTAC WITH WATER,EMIT FLAMMABLE GASA OXIDIZING SOLIDS ACUTE TOXICITY-ORAL ACUTE TOXICITY-INHALATION(DUST) SKIN CORROSION/IRRITATION EYE DAMAGE/IRRITATION EYE DAMAGE/IRRITATION SENSITIZATION-SKIN CARCINOGENICITY TOXIC TO REPRODUCTION SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (SINGLE EXPOSURE) SPECIFIC TARGET ORGAN SYSTEMIC

The thing without mention is out of a classification object. Or cannot classify it.

LABEL ELEMENTS SYMBOL	
SIGNAL WORD	Danger
HAZARD STATEMENTS	Causes skin irritation Causes serious eye damage Causes damage to organs(systemic toxicity) Causes damage to organs through prolonged or repeated exposure(lung) Waming May cause damage to organs throngh prolonged or repeated exposure(bone)
PRECAUTIONARY STATEMEN	
	[Prevention]
	Obtain special instruction before use.

Do not handle until all safety precautions have been read and understood. Do not eat, drink or smoke when using this product. Do not breathe dust. Use personal protective equipment as required. Wash hands thoroughly after handling. [Response] Get medical advice/attention if you feel unwell. Take off contaminated clothing and wash before reuse. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. [Storage] Store in a cool and dark area. [Disposal] Dispose of contents and container in accordance with regulation.

3.Composition/information on ingredients

C omposition Zinc Oxide (ZnO) [Cas No.1314-13-2] Magnesia(MgO) [Cas No.1309-48-4] Others

>80%

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 saop and plenty of water. If on skin, skin irritation, get medical
	advice/attention.
4.3 Ingestion :	Rinse mouth and seek medical advice if necessary.
4.4 Inhalation :	Remove victim to flesh air and keep at rest in a position comfortable for breathing.
	If symptom concerning breath gose out, call a POISON CENTER to doctor.

5.Fire-fighting measures

5.1 Suitable Extinguishing Media:N/A5.2 Extinguishing Media Should not be used :N/A5.3 Special Exposure Hazards Arising:N/A	This product is non-flammable.	
	5.1 Suitable Extinguishing Media:	N/A
5.3 Special Exposure Hazards Arising: 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	5.4 Special Protective Equipment:	N/A

6.Accidental release measures

6.1 Personal Precautions:	See section 8. Do not breath dust.
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:	Handle in a well ventilated area. Avoid prolonged inhalation.
7.2 Storage:	Store in a cool and dry conditions with lid tightly closed.

8.Exposure	controls/	personal	protection
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		protection	3.Exposure controls/personal p
	ACGIH TLV.	Chemical name	8.1Exposure limits:
	2 mg/m ³ (TWA)	Zinc Oxide	
	10 mg∕m ³ (TWA)	Magnesium Oxide	
		Dust mask(may be)	8.2 Respiratory Protection:
		Latex or rubber glove	8.3 Hand Protection:
	protection.	Safety goggles or eye	8.4 Eye Protection:
	protective overalls.	Not required. Genera	8.5 Skin Protection:
		ties	Physical and chemical proper
	hite odorless powder	Yellowish	9.1 Appearance/Odour/pH
		ge: N/D	9.2 Boiling Point/Boiling Ran
		nge: N/D	9.3 Melting Point/Melting Ra
		N/D	9.4 Flash point:
		N/D	9.5 Auto flammability:
		N/D	9.6 Explosive Properties:
		N/D	9.7 Oxidizing Properties:
		N/D	9.8 Vapour Pressure:
		≒2.3	9.9 Relative Density:
		<i>ubility</i> Insoluble	9.10 Solubility: water solu
			0.Stability and reactivity
	r recommended storage conditions.	Stable und	10.1 Stability:
		N/A	10.2 Reactivity:
	t sunlight and high temperature.		10.3 Condition to avoid:
	sumight and high temperature.	N/A	10.4 Materials to avoid:
			ro.+ materials to avoid.
			.Toxicological information
	at LD50 >5000mg/kg	Oral	Zinc Oxide (ZnO)
	LC50 > 5.7 mg/kg	Inhalation (dust)	
	ng/m ³ (38MKAJ 2A,1745,1981)		Magnesia(MgO)
			2.Ecological information
		: No data available.	DECOMPOSITION
		: No data available.	PERSISTENCE
			AQUATIC TOXICITY
			Disposal considerations
ernational	ance with local/regional/national/internationa	container to in accord	Dispose of contents,
erna	ance with local/regional/national/interna	: No data available.	AQUATIC TOXICITY

14.Transport information

regulations.

Hazard class or division: Not classified as hazardous.

AIR : Transport in accordance with ICAO · IATA-DGR

UN Number : Not applicable

Protect from direct sun light in transportation, and confirm the container does not leak. Carefully load it onto a transporter without dropping, overturning or damaging so that it will

stably stays on the transporter.

15.Regulatory information

Follow all regulations in your country.

16.Other information

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

https://www.ismiledentalproducts.com/hy-bond-polycarboxylate-temporary-cement-luting-21-0370-group



SAFETY DATA SHEET

page 1/5 HY-Bond Polycarboxylate Cement LIQUID Printing date: August 26, 2019

SCTION	N 1. Identification of the substance or mixture and of the supplier
1.1	Product identifier
	Trade Name:
	HY-Bond Polycarboxylate Cement "LIQUID"
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: SHOFU DENTAL CORPORATION
	Address: 1225 Stone Drive, San Marcos, CA 92078 USA
	Toll Free: 1-800-827-4638
	Phone: 760-736-3277
	Fax: 760-736-3276
	E-Mail: customer-service@shofu.com
	Section in Charge: Quality Management & Regulatory Affairs
1.4	Emergency Telephone Number
	For emergencies only. Call CHEMTREC: +1 703-741-5970 / 1-800-424-9300 (24 hours)
SCTION	
2.1	GHS Classification
	PHYSICAL HAZARDS
	FLAMMABLE LIQUIDS Not Classified
	The thing without mention is out of a classification object. Or cannot classify it.
	g
2.2	Label elements
	SYMBOL Void
	SIGNAL WORD Void
	HAZARD STATEMENTS Void
	PRECAUTIONARY STATEMENTS
	[Prevention]
	Obtain special instruction before use.
	Do not handle until all safety precautions have been read and understood.
	[Response]
	Get medical advice/attention if you feel unwell.
	[Storage]
	Store in a cool and dark area.
	[Disposal]
	Dispose of contents and container in accordance with regulation.
2.3	Other hazards
	Results of PBT and vPvB assessment
	PBT: Not applicable. vPvB: Not applicable.
	vPvB: Not applicable.



SCTIO	N 3. Composition/information on ingredients
3.1	Chemical characterization: Mixtures
3.2	Description: -
	•
3.3	Dangerous components: Void
	Copolymer of acrylic acid and tricarboxylic acid (Water solution)
	Tartaric acid [Cas No.87-69-4] 0.5-1 %
	Others
3.4	Additional information: For the wording of the listed risk phrases refer to section 2
0.1	
SCTIO	
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.
	If symptom concerning breath goes out, call a POISON CENTER or doctor.
4.2	Most important symptoms and effects, both acute and delayed
7.2	No further relevant information available.
4.3	Indication of any immediate medical attention and special treatment needed
	No further relevant information available.
SCTIO	N 5. Fire-fighting measures
5.1	Extinguishing Media:
	Foam, CO ₂ , Powder, Dry sand
5.2	Special hazards arising from the substance or mixture:
0.2	· · ·
	No further relevant information available.
5.3	Advice for firefighters:
	No special measures required.
SCTIO	N 6. Accidental release measures
6.1	Personal precautions, protective equipment and emergency procedures:
	Avoid contact with eyes and skin.
6.2	Environmental Precautions:
0.2	
	Send to approved treatment/disposal company or dispose according to local, state and
	federal regulations.
6.3	Methods and material for containment and cleaning Up:
	Wipe up and discard in a suitable container.
6.4	Reference to other section:
0.4	
	See Section 7 for information on safe handling.
	See Section 8 for information on personal protection equipment.
	See Section 13 for disposal information.
1	



SCTIO	N 7. Handling ar	nd storage	
7.1	Precautions for saf	e handling:	
	Avoid inhalin	g and contact with eyes and skin.	
	Keep away from ignition sources and separate from strong oxidizer.		
7.2	Conditions for safe	storage, including any incompatibilities:	
	Store in a co	ol and dry place out of direct sunlight and source of ignition.	
	Separated fro	om organic peroxide. Keep containers closed.	
7.3	Specific end use(s)	:	
	No further re	levant information available.	
SCTIO	N 8. Exposure c	ontrols/personal protection	
8.1	Control parameters	S:	
	Ingredients with lim	it values that require monitoring at the workplace:	
	The produ	act does not contain any relevant quantities of materials with critical values that	
	have to be	e monitored at the workplace.	
8.2	Exposure controls:		
	Respiratory Protect	tion:	
		Dust mask	
	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	
SCTIO	N 9. Physical an	d chemical properties	
9.1		ic physical and chemical properties	
	Appearance/Odor/		
	Odour threshold	Not determined.	
	pН	Not determined.	
		Version Number 6	



SAFETY DATA SHEET HY-Bond Polycarboxylate Cement

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			Printing a
	Melting point/freezing point	Not determined.	
	Boiling Point:	≈ 100 °C	
	Flash point:	Not determined.	
	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:	\approx 1.2 (water=1)	
	Solubility: water solubility	Soluble.	
	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 available.

SCTION 10. Stability and reactivity

10.1 Reactivity:

No further relevant information available.

- 10.2 Chemical stability:
 - Stable under normal temperatures and pressures.
- 10.3 Possibility of hazardous reactions:

No dangerous reactions known.

10.4 Condition to Avoid:

Avoid direct sunlight and high temperature.

10.5 Incompatible materials:

No further relevant information available.

- 10.6 Hazardous Decomposition Products:
 - None under normal conditions of storage and use.

SCTION 11. Toxicological information

11.1 Information on toxicological effects: Acute toxicity: Based on available data, the classification criteria are not met. Skin corrosion/irritation: Based on available data, the classification criteria are not met. Eye damage/irritation: Based on available data, the classification criteria are not met. Sensitization to the respiratory tract: 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/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.



		Printing date: August 26, 2019	
	Specific target organ toxic	ity (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.	
	Aspiration nazaru.	based on available data, the classification chiefla are not met.	
SCTION	N 12. Ecological inform	ation	
	Toxicity:		
	•	nformation available.	
12.2		Persistence and degradability:	
	-	nformation available.	
10.0			
12.3 Bioaccumulative potential: No further relevant information available.			
		nformation available.	
12.4	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.		
SCTION	N 13. Disposal conside	rations	
13.1	Waste treatment methods		
	Dispose of contents/conta	iner to in accordance with local/regional/national/international	
	regulations.	C C	
	C C		
SCTION	N 14. Transport informa	tion	
	UN number:	Void	
14.2	UN proper shipping name		
	Transport hazard class(es		
	•	Void	
	Packing group:		
	Environmental hazards:	No	
	Special precautions for us		
14.7	Transport in bulk accordin	g to Annex II of MARPOL73/78 and the IBC Code:	
		Not applicable.	
SCTION	N 15. Regulatory inform	ati	
	Follow all regulations in year	our country.	
SCTION	N 16. Other information		
This product is intended for use by dental professionals. (instrument/material)			
Abbreviations and acronyms:			
CAS: Chemical Abstracts Service (division of the American Chemical Society)			
PBT: Persistent, Bioaccumulative and Toxic			
vPvB: very Persistent and very Bioaccumulative			
L		Version Number 6	