

SECTIO	ON 1. Identification of the substance or mixture and of the	supplier
1.1	Product identifier	
	Trade Name:	
	HY-Bond Polycarboxylate Cement "POWDER"	
1.2	Relevant identified uses of the substance or mixture and uses a	advised against
	Relevant identified uses: Dental material	5
	Uses advised against: No further data	
1.3	Details of the supplier of the safety date sheet	
	Company/Undertaking identification	
	Manufacturer's Name: SHOFU INC.	
	Address: 11 Kamitakamatsu-cho, Fukuine, Higashiyama-	ku. Kvoto 605-0983. JAPAN
	Phone: +81-75-561-1112	,,,,
	Fax: +81-75-275-4795	
	Section in Charge: Quality Assurance Section	
1.4	Emergency Telephone Number	
	+81-75-561-1112	
SECTIO	ON 2. Hazards identification	
2.1	GHS Classification	
	PHYSICAL HAZARDS	
	FLAMMABLE SOLIDS	Not Classified
	PYROPHORIC SOLIDS	Not Classified
	SELF-HEATING SUBSTANCES AND MIXTURES	Not Classified
	SUBSTANCES AND MIXTURES WHICH, IN CONTAC	T WITH WATER,EMIT
	FLAMMABLE GASAS	Not Classified
	OXIDIZING SOLIDS	Not Classified
	HEALTH HAZARDS	
	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 TOXICITY (SINGLE EXPOSURE)
		Category 1 (systemic toxicity)
	SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (I	REPEATED EXPOSURE)
		Category 1(lung)
		Category 2(bone)
	The thing without mention is out of a classification obje	ect. Or cannot classify it.



2.2 Label elements SYMBOL GHS05 GHS08 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) May cause damage to organs through prolonged or repeated exposure. (bone) PRECAUTIONARY STATEMENTS [Prevention] Obtain special instruction before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Wash hand thoroughly after handling. [Response] IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell. IF ON SKIN: Wash with plenty of water and soap. 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. 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. 2.3 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. **SECTION 3. Composition/information on ingredients** Chemical characterization: Mixtures 3.1 Description: Mixture of substances listed below with nonhazardous additions. 3.2



3.3	Dangerous components: Void		
0.0	Zinc Oxide [Cas No. 1314-13-2] 80-90 %		
	Magnesium Oxide [Cas No. 1309-48-4]		
0.4	Others		
3.4	Additional information: For the wording of the listed risk phrases refer to section 2		
SECTIO	DN 4. First-aid measures Description of 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.		
	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		
	No further relevant information available.		
4.3	Indication of any immediate medical attention and special treatment needed		
	No further relevant information available.		
	DN 5. Fire-fighting measures		
5.1	Extinguishing Media:		
	This product is not flammable.		
5.2	Special hazards arising from the substance or mixture:		
	No further relevant information available.		
5.3	Advice for firefighters:		
	No special measures required.		
SECTIO	DN 6. Accidental release measures		
6.1	Personal precautions, protective equipment and emergency procedures:		
	Avoid contact with eyes and skin. Do not breathe dust.		
6.2	Environmental Precautions:		
	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:		
	See Section 7 for information on safe handling.		
	See Section 8 for information on personal protection equipment.		
	See Section 13 for disposal information.		
SECTIO			
7.1	Precautions for safe handling:		
	Handle in a well ventilated area. Avoid prolonged inhalation.		



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7.2	Conditions for safe	storage, inclu	uding any incompati	bilities:
	Store in a coo	ol and dry cor	nditions with lid tight	tly closed.
7.3	Specific end use(s)	Specific end use(s):		
	No further rel	evant informa	ation available.	
SECTIO	ON 8. Exposure co	ontrols/perse	onal protection	
8.1	Control parameters	:		
	Exposure limits			
	Zinc Oxide	9	ACGIH TLV	2 mg/m ³ (TWA)
	Magnesiur	n Oxide	ACGIH	10 mg/m ³ (I) (TWA)
8.2	Exposure controls:			
	Respiratory Protect	ion:		
		Dust mask		
	Skin Protection:	Hand Prote	ection	
		The glove r	material has to be ir	mpermeable and resistant to the product/ the
		substance/	the preparation.	
		Due to mis	sing tests no recom	mendation to the glove material can be given
		for the proc	duct/ the preparatior	n/the chemical mixture.
		Selection o	f the glove material	on consideration of the penetration times,
		rates of diff	usion and the degra	adation.
		· Material	of gloves	
			The selection of th	e suitable gloves does not only depend on
			the material, but a	lso 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 i	n advance and has therefore to be checked
		prior to the application.		
		· Penetrat	ion time of glove ma	aterial
			The exact break th	nrough time has to be found out by the
			manufacturer of th	e protective gloves and has to be observed.
		 For the p 	ermanent contact c	of a maximum of 15 minutes gloves made of
		the following materials are suitable:		
			Butyl rubber, BR	
			Nitrile rubber, NBF	8
	Eye Protection:	Safety gog	gles	
SECTIO	ON 9. Physical and	d chemical p	properties	
9.1	Information on basi		d chemical propertie	es
	Appearance/Odor/C	Colour:		vish white odorless powder
	Odour threshold			etermined.
	рН			etermined.
	Melting point/freezir	ng point		etermined.
	Boiling Point:		Not de	etermined.
	Flash point:		Not de	etermined.
	Evaporation rate			etermined.
1	Flammability (solid,	acc)	Not or	oplicable.



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	Upper/lower flammability o	r explosive limits	Not determined.	
	Vapour pressure		Not determined.	
	Vapour density		Not determined.	
	Relative Density:		\approx 2.3 (water=1)	
	Solubility: water solubility		Insoluble.	
	Partition coefficient: n-octa	nol/wator	Not determined.	
			Not determined.	
	Auto-ignition temperature	-		
	Decomposition temperatur	е	Not determined.	
	Viscosity		Not determined.	
	Explosive properties		Not applicable.	
	Oxidising properties		Not applicable.	
9.2	Other information			
	No further relevant informa	ation available.		
OFOTIO				
	ON 10. Stability and react			
10.1	Reactivity:	formation availab		
10.0	No further relevant in	normation availab	le.	
10.2	Chemical stability:			
	Stable under normal	-	l pressures.	
10.3	Possibility of hazardous re			
	No dangerous reacti	ons known.		
10.4	Condition to Avoid:			
	Avoid direct sunlight	and high tempera	ture.	
10.5	Incompatible materials:			
	No further relevant in	nformation availab	le.	
10.6	Hazardous Decomposition	Products:		
	None under normal	conditions of stora	ge and use.	
1	ON 11. Toxicological infor			
11.1	Information on toxicologica			
	Acute toxicity:	Zinc Oxide;		
		Oral	rat	LD50 > 5000 mg/kg
		Inhalatio	on (dust) rat	LC50 > 5.7 mg/kg
	Skin corrosion/irritation:	H315 Causes ski	n irritation.	
	Eye damage/irritation:	H318 Causes se	rious eye damage	
	Sensitization to the respira	tory tract:		
		Based on availab	le data, the class	fication criteria are not met.
	Skin sensitization:	Based on availab	le data, the classi	fication criteria are not met.
	Germ cell mutagenicity/Ge			
	5 ,	-	le data, the classi	fication criteria are not met.
	Carcinogenicity:			fication criteria are not met.
	Reproductive toxicity:			fication criteria are not met.
	Effects on or via lactation:			
	Specific target organ toxici		e).	
		H370 Causes da		

H370 Causes damage to organs. (systemic toxicity)



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Specific target organ to:	xicity (repeated exposure):
	H372 Causes damage to organs through prolonged or repeated
	exposure. (lung)
	H373 May cause damage to organs through prolonged or repeated
	exposure. (bone)
Aspiration hazard:	Based on available data, the classification criteria are not met.
SECTION 12. Ecological infor	motion
12.1 Toxicity:	Ination
,	nt information available.
12.2 Persistence and degrad	
	nt information available.
12.3 Bioaccumulative potent	
	nt information available.
12.4 Mobility in soil:	nt information available.
12.5 Results of PBT and vPv	D assessment.
Not applicable.	
12.6 Other adverse effects:	
No further relevan	nt information available.
SECTION 13. Disposal consid	lerations
13.1 Waste treatment metho	
	ntainer to in accordance with local/regional/national/international
regulations.	j.
Ū,	
SECTION 14. Transport inform	nation
14.1 UN number:	Void
14.2 UN proper shipping nan	ne: Void
14.3 Transport hazard class(es): Void
14.4 Packing group:	Void
14.5 Environmental hazards:	No
14.6 Special precautions for	user: Not applicable.
14.7 Transport in bulk accord	ding to Annex II of MARPOL73/78 and the IBC Code:
	Not applicable.
SECTION 15. Regulatory info	rmati
Follow all regulations in	your country.
SECTION 16. Other information	
This product is intended	for use by dental professionals. (instrument/material)
Dolovent phresses	
Relevant phrases:	
	an alkin irritation
	es skin irritation.
H318 Caus	es skin irritation. es serious eye damage. es damage to organs. (systemic toxicity)



H372	Causes damage to organs through prolonged or repeated exposure. (lung)
-	

H373 May cause damage to organs through prolonged or repeated exposure. (bone) Abbreviations and acronyms:

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative