SAFETY DATA SHEETS

This SDS packet was issued with item:

076362446

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

076362404

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

076362420



SCTIO		
1.1	N 1. Identification of the substance or mixture a	nd of the supplier
	Product identifier	
	Trade Name:	
	HY-Bond Zinc Phosphate Cement "LIQUID"	
1.2	-	and uses advised against
1.2	Relevant identified uses: Dental material	
	Uses advised against: No further data	
1.3		
	Company/Undertaking identification	
	Manufacturer's Name: SHOFU DENTAL CORF	PORATION
	Address: 1225 Stone Drive, San Marcos, CA 92	2078 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 & Reg	ulatory Affairs
1.4	5 , 1	
	For emergencies only. Call CHEMTREC: +1 70	03-741-5970 / 1-800-424-9300 (24 hours)
SCTIO	N 2. Hazards identification	
2.1	GHS Classification	
	HEALTH HAZARDS	
	ACUTE TOXICITY-ORAL	Category 4
	SKIN CORROSION/IRRITATION	Category 1A
	EYE DAMAGE/IRRITATION	
		Cotogon / 1
		Category 1
	SPECIFIC TARGET ORGAN SYSTEMIC TO	DXICITY (SINGLE EXPOSURE)
		•
		DXICITY (SINGLE EXPOSURE)
		DXICITY (SINGLE EXPOSURE) Category 2 (systemic toxicity)
	SPECIFIC TARGET ORGAN SYSTEMIC TO	DXICITY (SINGLE EXPOSURE) Category 2 (systemic toxicity) Category 3 (respiratory tract irritation)
		DXICITY (SINGLE EXPOSURE) Category 2 (systemic toxicity) Category 3 (respiratory tract irritation) DXICITY (REPEATED EXPOSURE)
	SPECIFIC TARGET ORGAN SYSTEMIC TO SPECIFIC TARGET ORGAN SYSTEMIC TO	DXICITY (SINGLE EXPOSURE) Category 2 (systemic toxicity) Category 3 (respiratory tract irritation)
	SPECIFIC TARGET ORGAN SYSTEMIC TO SPECIFIC TARGET ORGAN SYSTEMIC TO ENVIRONMENTAL HAZARD	DXICITY (SINGLE EXPOSURE) Category 2 (systemic toxicity) Category 3 (respiratory tract irritation) DXICITY (REPEATED EXPOSURE) Category 2 (lung)
	SPECIFIC TARGET ORGAN SYSTEMIC TO SPECIFIC TARGET ORGAN SYSTEMIC TO	DXICITY (SINGLE EXPOSURE) Category 2 (systemic toxicity) Category 3 (respiratory tract irritation) DXICITY (REPEATED EXPOSURE) Category 2 (lung)
	SPECIFIC TARGET ORGAN SYSTEMIC TO SPECIFIC TARGET ORGAN SYSTEMIC TO ENVIRONMENTAL HAZARD HAZARDOUS TO THE AQUATIC ENVIRON	DXICITY (SINGLE EXPOSURE) Category 2 (systemic toxicity) Category 3 (respiratory tract irritation) DXICITY (REPEATED EXPOSURE) Category 2 (lung) IMENT-ACUTE HAZARD Category 2
	SPECIFIC TARGET ORGAN SYSTEMIC TO SPECIFIC TARGET ORGAN SYSTEMIC TO ENVIRONMENTAL HAZARD	DXICITY (SINGLE EXPOSURE) Category 2 (systemic toxicity) Category 3 (respiratory tract irritation) DXICITY (REPEATED EXPOSURE) Category 2 (lung) IMENT-ACUTE HAZARD Category 2 IMENT-CHRONIC HAZARD
	SPECIFIC TARGET ORGAN SYSTEMIC TO SPECIFIC TARGET ORGAN SYSTEMIC TO ENVIRONMENTAL HAZARD HAZARDOUS TO THE AQUATIC ENVIRON	DXICITY (SINGLE EXPOSURE) Category 2 (systemic toxicity) Category 3 (respiratory tract irritation) DXICITY (REPEATED EXPOSURE) Category 2 (lung) IMENT-ACUTE HAZARD Category 2
	SPECIFIC TARGET ORGAN SYSTEMIC TO SPECIFIC TARGET ORGAN SYSTEMIC TO ENVIRONMENTAL HAZARD HAZARDOUS TO THE AQUATIC ENVIRON	DXICITY (SINGLE EXPOSURE) Category 2 (systemic toxicity) Category 3 (respiratory tract irritation) DXICITY (REPEATED EXPOSURE) Category 2 (lung) IMENT-ACUTE HAZARD Category 2 IMENT-CHRONIC HAZARD
	SPECIFIC TARGET ORGAN SYSTEMIC TO SPECIFIC TARGET ORGAN SYSTEMIC TO ENVIRONMENTAL HAZARD HAZARDOUS TO THE AQUATIC ENVIRON	DXICITY (SINGLE EXPOSURE) Category 2 (systemic toxicity) Category 3 (respiratory tract irritation) DXICITY (REPEATED EXPOSURE) Category 2 (lung) IMENT-ACUTE HAZARD Category 2 IMENT-CHRONIC HAZARD Category 2
2.2	SPECIFIC TARGET ORGAN SYSTEMIC TO SPECIFIC TARGET ORGAN SYSTEMIC TO ENVIRONMENTAL HAZARD HAZARDOUS TO THE AQUATIC ENVIRON HAZARDOUS TO THE AQUATIC ENVIRON	DXICITY (SINGLE EXPOSURE) Category 2 (systemic toxicity) Category 3 (respiratory tract irritation) DXICITY (REPEATED EXPOSURE) Category 2 (lung) IMENT-ACUTE HAZARD Category 2 IMENT-CHRONIC HAZARD Category 2
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Version Number 9 Revision date: August 9, 2019



_					Printing date: Augu	ist 26, 2019
	SIGNAL	WORD	Danger			
	ΗΔΖΑΒ	D STATE	MENTS			
			if swallowed			
			severe skin burns and eye	anemeh e		
			use respiratory irritation	e damage		
		•	use damage to organs (sys	stomic toxicity		
		•	o o ()	-	ed or repeated exposure (lung)	
		•	aquatic life with long lastir	• • •	ed of repeated exposure (lung)	
				.g		
	PRECA		RY STATEMENTS			
		[Preven	-			
			special instruction before u			
			• •		been read and understood.	
			reathing dust/fume/gas/mis		oray.	
			ands thoroughly after hand	•		
			eat, drink or smoke when u	0 1	duct.	
			y outdoors or in a well-ven	tilated area.		
			lease to the environment.			
		-		clothing/eye	protection/face protection.	
		[Respor	-			
		IF SWA	LLOWED: Rinse mouth. D	o NOT induc	e vomiting.	
		IF ON S	KIN or hair: Take off imme	diately all co	ntaminated clothing. Rinse skir	with water
		or show	-			
		IF INHA	LED: Remove person to fr	esh air and k	keep comfortable for breathing.	
		IF IN EY	'ES: Rinse cautiously with	water for sev	veral minutes. Remove contact	lenses, if
		present	and easy to do. Continue	rinsing.		
		Get me	dical advice/attention if you	ı feel unwell.		
		Collect	spillage.			
		[Storage	9]			
		Store in	a cool and dark area.			
		[Dispos	al]			
		Dispose	of contents and container	in accordan	ce with regulation.	
		•			Ū	
	2.3 Other ha	azards				
		Results	of PBT and vPvB assessn	nent		
		PBT:	Not applicable.			
		vPvB:	Not applicable.			
			ion/information on ingre	dients		
			terization: Mixtures			
	-	tion: Mixt	ure of substances listed be	low with non	hazardous additions.	
	3.3 Danger	ous comp	onents:			
	P	hosphoric	acid [Cas No.7664-38-2]	5	50-60 %	
	Zi	inc oxide	[Cas No.1314-13-2]	1	-5 %	
1						



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	Other components:
	Aluminum hydroxide 1-10 %
	Water 30-35 %
34	Additional information: For the wording of the listed risk phrases refer to section 2
SCTIO	N 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.
	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.
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:
	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.
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:
	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.
SCTIO	N 7. Handling and storage
7.1	Precautions for safe handling:
	Avoid inhaling and contact with eyes and skin.
7.2	Conditions for safe storage, including any incompatibilities:
1.2	Store in a cool and dry place out of direct sunlight.
	Keep containers closed.
	הבבף נטוונמווובוש טוטשבע.



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7.3	7.3 Specific end use(s):			
	No further	relevant informatio	n available.	
SCTIO	N 8. Exposure	controls/person	al protection	
8.1	Control paramete	-		
	Exposure limits	Phosphoric acid;		
		[ACGIH 2014]	TLV-TWA	1 mg/m ³
			TLV-STEL	3 mg/m ³
		Zinc Oxide;	-	
		[ACGIH 2013]	TLV-TWA	2 mg/m ³ (R)
		[]	TLV-STEL	10 mg/m ³ (R)
8.2	Exposure control	s.		10 mg/m (11)
0.2	Respiratory Prote			
	Respiratory From	Dust mask		
	Skin Protection:	Hand Protecti	on	
				impermeable and resistant to the product/ the
		substance/ th		
				nmendation to the glove material can be given
			-	on/the chemical mixture.
		-		al on consideration of the penetration times,
			ion and the deg	-
		· Material of	•	
			-	he suitable gloves does not only depend on
	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.		
				of a maximum of 15 minutes gloves made of
		•	g materials are	3
			utyl rubber, BR	
			itrile rubber, NE	R
	Eye Protection:	Safety goggle		
			0	
SCTIO	N 9. Physical a	and chemical pro	perties	
9.1		asic physical and c		ies
	Appearance/Odd	or/Colour:	Odo	urless, color less liquid
	Odour threshold			letermined.
	pН		1-3 (as a 2% solution)
	Melting point/free	zing point		determined.
	Boiling Point:	0.		determined.
	Flash point:			determined.
	Evaporation rate			letermined.
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Flammability (solid, gas)		Not applicable.		
Upper/lower flammability of	or explosive limits	Not determined	l.	
Vapour pressure		Not determined	l.	
Vapour density		Not determined	l.	
Relative Density:		1.59 (water=1)		
Solubility: water solubility		Soluble.		
Partition coefficient: n-octa	anol/water	Not determined	l.	
Auto-ignition temperature		Not determined	l.	
Decomposition temperatu	re	Not determined	l.	
Viscosity		Not determined	l.	
Explosive properties		Not applicable.		
Oxidising properties		Not applicable.		
9.2 Other information				
No further relevant i	nformation availab	le.		
SCTION 10. Stability and react	livity			
10.1 Reactivity:	afermention oveileb	1.		
No further relevant i	nformation availab	le.		
10.2 Chemical stability:	I tomporaturas and			
	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.				
None under normal		ge and use.		
SCTION 11. Toxicological info	rmation			
11.1 Information on toxicologic				
Acute toxicity:	Acute Tox. 4; H30	02 Harmful if swa	allowed.	
	Phosphoric acid;			
	Oral	rat	LD50	1250 mg/kg
	Dermal	rabbit	LD50	2740 mg/kg
	Inhalatio	on rat	LC50	> 0.85 mg/L (4H)
	Zinc oxide;			
	Oral	rat	LD50	> 5000 mg/kg
	Dermal	rabbit		> 5000 mg/kg
	Inhalatio	on (dust) rat	LC50	> 5.7 mg/L
Skin corrosion/irritation:		. ,	ere skin bu	irns and eye damage.
Eye damage/irritation:				is and eye damage.
Sensitization to the respiratory tract:				
	Based on availab	le data, the clas	sification c	riteria are not met.
Skin sensitization:	Based on availab	le data, the clas	sification c	riteria are not met.



	Germ cell mutagenicity/Ge	notoxicity:
	Contracting Co	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 toxici	
		STOT SE 2; H371 May cause damage to organs (systemic toxicity).
		STOT SE 3; H335 May cause respiratory irritation.
	Specific target organ toxici	
		STOT RE 3; H373 May cause damage to organs through prolonged or
		repeated exposure (lung).
	Aspiration hazard:	Based on available data, the classification criteria are not met.
SCTION	12. Ecological informa	ation
	Toxicity:	
	No further relevant in	nformation available.
12.2	Persistence and degradab	ility:
	No further relevant ir	•
12.3	Bioaccumulative potential:	
	No further relevant in	
12.4	Mobility in soil:	
	No further relevant in	nformation available
125	Results of PBT and vPvB a	
12.5	Not applicable.	2355311CHL.
126	Other adverse effects:	
12.0		efermation available
	No further relevant ir	normation available.
SCTION	13. Disposal considera	ations
13.1	Waste treatment methods:	
	Dispose of contents/contai	ner to in accordance with local/regional/national/international
	regulations.	C C
	0	
SCTION	14. Transport informat	tion
14.1	UN number:	1805
14.2	UN proper shipping name:	Phosphoric acid, solution
14.3	Transport hazard class(es)	: 8 Corrosive substances.
14.4	Packing group:	III
14.5	Environmental hazards:	No
14.6	Special precautions for use	er: Not applicable.
		g to Annex II of MARPOL73/78 and the IBC Code:
		Not applicable.
SCTION		
	Follow all regulations in yo	ur country.



