

SCTIO	1. Identification of the substance or mixture and of the	supplier			
1.1	Product identifier				
	Trade Name:				
	HY-Bond Zinc Phosphate Cement "LIQUID"				
1.2	Relevant identified uses of the substance or mixture and uses a	advised against			
	Relevant identified uses: Dental material	0			
	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					
	+81-75-561-1112				
SCTIO	12. Hazards identification				
2.1	GHS Classification				
	PHYSICAL HAZARDS				
	FLAMMABLE LIQUIDS	Not Classified			
	PYROPHORIC LIQUIDS	Not Classified			
	SELF-REACTIVE SUBSTANCES AND MIXTURES	Not Classified			
	SUBSTANCES AND MIXTURES WHICH, IN CONTAC	T WITH WATER, EMIT			
	FLAMMABLE GASAS	Not Classified			
	OXIDIZING LIQUIDS	Not Classified			
	HEALTH HAZARDS				
	ACUTE TOXICITY-ORAL	Category 4			
	ACUTE TOXICITY-DERMAL	Not Classified			
	SKIN CORROSION/IRRITATION	Category 1A			
	EYE DAMAGE/IRRITATION	Category 1			
	SENSITIZATION-SKIN	Not Classified			
	SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (SINGLE EXPOSURE)				
		Category 2 (systemic toxicity)			
		Category 3 (respiratory tract			
		irritation)			
	SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (F	REPEATED EXPOSURE)			
		Category 2 (lung)			
	ENVIRONMENTAL HAZARD				
	HAZARDOUS TO THE AQUATIC ENVIRONMENT-AC	UTE HAZARD			
		Category 2			
	HAZARDOUS TO THE AQUATIC ENVIRONMENT-CHRONIC HAZARD				
		Category 3			
	The thing without mention is out of a classification object. Or ca	nnot classify it.			



	Printing date: August 3, 2017
2.2	Label elements SYMBOL
	GHS07 GHS05 GHS08 SIGNAL WORD Danger
	HAZARD STATEMENTS
	Harmful if swallowed.
	Causes severe skin burns and eye damage.
	Causes serious eye damage. May cause respiratory irritation.
	May cause demage to organs. (systemic toxicity)
	May cause damage to organs through prolonged or repeated exposure. (lung)
	PRECAUTIONARY STATEMENTS
	[Prevention]
	Obtain special instruction before use.
	Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection.
	Do not breathe dust/fume/gas/mist/vapours/spray.
	Do not eat, drink or smoke when using this product.
	Avoid release to the environment.
	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 IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	IF SWALLOWED: Call a POISON CENTER or doctor 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.
SCTIO	I 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: Phosphoric acid [Cas No.7664-38-2] 50-60 % Alunimium hydroxide 1-10 % Zinc oxide 1-5 % Water 30-35 % 3.4 Additional information: For the wording of the listed risk phrases refer to section 2 SCTION 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. SCTION 5. Fire-fighting measures 5.1 Extinguishing Media: Powder, Alcohol-resistant foam, Carbon dioxide. 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. SCTION 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 personal protection equipment. See Section 13 for disposal information. SCTION 1			Printing date: August 3, 2017
Alunimium hydroxide 1-10 % Zinc oxide 1-5 % Water 30-35 % 3.4 Additional information: For the wording of the listed risk phrases refer to section 2 SCTION 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 vicitm 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 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available. 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. SCTION 5.	3.3	Dangerous components:	
Zinc oxide 1-5 % Water 30-35 % 3.4 Additional information: For the wording of the listed risk phrases refer to section 2 SCTION 4. First-slid 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. SCTION 5. Fire-fighting measures 5.1 Extinguishing Media: Powder, Alcohol-resistant foam, Carbon dioxide. 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. SCTION 5. Accidental release measures 6.1		Phosphoric acid [Cas No.7664-38-2]	50-60 %
Water 30-35 % 3.4 Additional information: For the wording of the listed risk phrases refer to section 2 SCTION 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 vicitm 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. SCTION 5. Fire-fighting measures 5.1 Extinguishing Media: Powder, Alcohol-resistant foam, Carbon dioxide. 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 coth and self-contained breathing apparatus, if necessary. SCTION 6. Accidental release measures		Alunimium hydroxide	1-10 %
 3.4 Additional information: For the wording of the listed risk phrases refer to section 2 SCTION 4. 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. 5.1 Extinguishing Media: Powder, Alcohol-resistant foam, Carbon dioxide. 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. SCTION 6. Accidental release measures 6.1 Personal 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 discrotin an 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. 		Zinc oxide	1-5 %
 SCTION 4. 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 scap 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. SCTION 5. Fire-fighting measures 5.1 Extinguishing Media: Powder, Alcohol-resistant foam, Carbon dioxide. 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. SCTION 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 7 for information on personal protection equipment. See Section 7 for information on personal protection equipment. See Section 7 for disposal information. 		Water	30-35 %
 SCTION 4. 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 scap 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. SCTION 5. Fire-fighting measures 5.1 Extinguishing Media: Powder, Alcohol-resistant foam, Carbon dioxide. 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. SCTION 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 7 for information on personal protection equipment. See Section 7 for information on personal protection equipment. See Section 7 for disposal information. 	3.4	Additional information: For the wording of the li	sted risk phrases refer to section 2
 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. 5.1 Extinguishing Media: Powder, Alcohol-resistant foam, Carbon dioxide. 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. SCTION 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 7 for information on safe handling. See Section 13 for disposal information. 		5	•
 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. 5.1 Extinguishing Media: Powder, Alcohol-resistant foam, Carbon dioxide. 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. SCTION 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 7 for information on safe handling. See Section 13 for disposal information. 	SCTIO	N 4. 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. 5.1 Extinguishing Media: Powder, Alcohol-resistant foam, Carbon dioxide. 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. SCTION 5. 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 1 for information on personal protection equipment. See Section 1 for disposal information. SCTION 7. Handling and storage 7.1 Precautions for safe handling: 	4.1		
and easy to do. If eye irritation persists, get medical advice/attention. Skin contact: Wash immediately with scap 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. 5.1 Extinguishing Media: Powder, Alcohol-resistant foam, Carbon dioxide. 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. SCTION 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 13 for disposal information. Set Section 13 for disposal information.		Eye contact: Rinse cautiously with water for s	everal minutes. Remove contact lenses, if present.
 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. 5.1 Extinguishing Media: Powder, Alcohol-resistant foam, Carbon dioxide. 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. SCTION 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 personal protection equipment. See Section 13 for disposal information. 			-
 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. 5.1 Extinguishing Media: Powder, Alcohol-resistant foam, Carbon dioxide. 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. SCTION 6. Accidental release measures 6.1 Personal precautions; Send to approved treatment/disposal company or dispose according to local, state and federal regulations. 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 7 for information on personal protection equipment. See Section 13 for disposal information. SCTION 7. Handling and storage 7.1 Precautions for safe handling: 			
 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 symptoms 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. 5.1 Extinguishing Media: Powder, Alcohol-resistant foam, Carbon dioxide. 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. SCTION 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 13 for disposal information. SCTION 7. Handling and storage 7.1 Precautions for safe handling: 			a plonty of watch in on okin, okin intration, got
 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. SCTION 5. Fire-fighting measures 5.1 Extinguishing Media: Powder, Alcohol-resistant foam, Carbon dioxide. 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. SCTION 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. SCTION 7. Handling and storage 7.1 Precautions for safe handling: 			advice if necessary
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. 5.1 Extinguishing Media: Powder, Alcohol-resistant foam, Carbon dioxide. 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. 5.4 Extinguishing proceedings of the system of the		•	-
 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. SCTION 5. Fire-fighting measures 5.1 Extinguishing Media: Powder, Alcohol-resistant foam, Carbon dioxide. 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. SCTION 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. SCTION 7. Handling and storage 7.1 Precautions for safe handling: 			
No further relevant information available. 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available. SCTION 5. Fire-fighting measures 5.1 Extinguishing Media: Powder, Alcohol-resistant foam, Carbon dioxide. 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. SCTION 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 personal protection equipment. See Section 13 for disposal information. SCTION 7. Handling and storage 7.1 Precautions for safe handling:	12		
 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available. SCTION 5. Fire-fighting measures 5.1 Extinguishing Media: Powder, Alcohol-resistant foam, Carbon dioxide. 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. SCTION 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. SCTION 7. Handling and storage 7.1 Precautions for safe handling: 	4.2		-
Scrion 5. Fire-fighting measures 5.1 Extinguishing Media: Powder, Alcohol-resistant foam, Carbon dioxide. 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. SCTION 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. SCTION 7. Handling and storage 7.1 Precautions for safe handling:	10		
SCTION 5. Fire-fighting measures 5.1 Extinguishing Media: Powder, Alcohol-resistant foam, Carbon dioxide. 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. SCTION 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. SCTION 7. Handling and storage 7.1 Precautions for safe handling:	4.3	-	-
 5.1 Extinguishing Media: Powder, Alcohol-resistant foam, Carbon dioxide. 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. SCTION 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. SCTION 7. Handling and storage 7.1 Precautions for safe handling: 			
 5.1 Extinguishing Media: Powder, Alcohol-resistant foam, Carbon dioxide. 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. SCTION 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. SCTION 7. Handling and storage 7.1 Precautions for safe handling: 	SCTIO	N.E. Eiro fighting mooouroo	
 Powder, Alcohol-resistant foam, Carbon dioxide. 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. SCTION 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 13 for disposal information. SCTION 7. Handling and storage 7.1 Precautions for safe handling: 			
 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. SCTION 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 13 for disposal information. SCTION 7. Handling and storage 7.1 Precautions for safe handling: 	0.1		dioxide
 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. SCTION 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. SCTION 7. Handling and storage 7.1 Precautions for safe handling: 	5.2		
 5.3 Advice for firefighters: Wear fire protective cloth and self-contained breathing apparatus, if necessary. SCTION 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. SCTION 7. Handling and storage 7.1 Precautions for safe handling: 	5.2		
 Wear fire protective cloth and self-contained breathing apparatus, if necessary. SCTION 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. SCTION 7. Handling and storage 7.1 Precautions for safe handling: 	53	-	inay emit.
 SCTION 6. Accidental release measures Personal precautions, protective equipment and emergency procedures:	5.5	•	ned breathing apparatus, if pecessary
 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. SCTION 7. Handling and storage 7.1 Precautions for safe handling: 		wear me protective cloth and self-contain	ned breathing apparatus, in necessary.
 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. SCTION 7. Handling and storage 7.1 Precautions for safe handling: 	SCTIO	N 6 Accidental release measures	
 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. SCTION 7. Handling and storage 7.1 Precautions for safe handling: 			d emergency procedures:
 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. 	0.1		
 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. SCTION 7. Handling and storage 7.1 Precautions for safe handling: 	62	-	
 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. SCTION 7. Handling and storage 7.1 Precautions for safe handling:	0.2		many or dispose according to local state and
 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. SCTION 7. Handling and storage 7.1 Precautions for safe handling:			hpany of dispose according to local, state and
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. SCTION 7. Handling and storage 7.1 Precautions for safe handling:	63	-	
 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. SCTION 7. Handling and storage 7.1 Precautions for safe handling: 	0.5		
See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information. <u>SCTION 7. Handling and storage</u> 7.1 Precautions for safe handling:	6.4		
See Section 8 for information on personal protection equipment. See Section 13 for disposal information. <u>SCTION 7. Handling and storage</u> 7.1 Precautions for safe handling:	0.4		
See Section 13 for disposal information. SCTION 7. Handling and storage 7.1 Precautions for safe handling:			-
SCTION 7. Handling and storage 7.1 Precautions for safe handling:		-	ai protection equipment.
7.1 Precautions for safe handling:		See Section 13 for disposal information.	
7.1 Precautions for safe handling:	SCTIO	N.Z. Hendling and storage	
Avoid innaling and contact with eyes and skin.	/.1	-	l akin
		Avoid initialing and contact with eyes and	I SKILI.



SAFETY DATA SHEET

			Printing date: August 3, 2017	
7.2	Conditions for sa	fe storage, includi	ng any incompatibilities:	
	Store in a o	cool and dry place	out of direct sunlight.	
	Keep conta	ainers closed.		
7.3	Specific end use			
_	•	relevant information	on available	
SCTIO		controls/person	al protection	
8.1				
0.1	Control paramete			
	Exposure limits	Phosphoric acid		
		[ACGIH 2004]	TLV: 1 mg/m ³ (TWA), 3 mg/m ³ (STEL)	
		NIOSH REL:	TWA 1 mg/m ³ , ST 3 mg/kg	
		OSHA PEL:	TWA 1 mg/m ³	
		[DFG 2005]	MAK: (Inhalable fraction) 2 mg/m ³	
		Zinc Oxide;		
		[ACGIH]	TLV: 2 mg/m ³ (TWA)	
8.2	Exposure control	S:		
	Respiratory Prote	ection:		
		Dust mask		
	Skin Protection:	Hand Protect	ion	
		The glove ma	aterial has to be impermeable and resistant to the product/ the	
		-	e preparation.	
			ng tests no recommendation to the glove material can be given	
			ct/ 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			
		Г	he exact break through time has to be found out by the	
		r	nanufacturer of the protective gloves and has to be observed.	
		 For the per 	manent contact of a maximum of 15 minutes gloves made of	
		the followir	ng materials are suitable:	
			Butyl rubber, BR	
			litrile rubber, NBR	
	Eye Protection:	Safety goggle		
	Lyorrotootion	Caloty goggi		
SCTIO	N 9 Physical	and chemical pro	operties	
9.1			chemical properties	
	Appearance/Odd		Odourless, color less liquid	
	Odour threshold		Not determined.	
	pН		1-3 (as a 2% solution)	



SAFETY DATA SHEET HY-Bond Zinc Phosphate Cement

page 5/7 HY-Bond Zinc Phosphate Cement LIQUID Printing date: August 3, 2017

					F	Printing date: August 3, 2017
	Melting point/freezing point		Not deter	mined.		
	Boiling Point:		Not deter	mined.		
	Flash point:		Not deter	mined.		
	Evaporation rate		Not deter	mined.		
	Flammability (solid, gas)		Not appli	cable.		
	Upper/lower flammability or e	explosive limits	Not deter	mined.		
	Vapour pressure		Not deter	mined.		
	Vapour density		Not deter	mined.		
	Relative Density:		1.59 (wat	ter=1)		
	Solubility: water solubility		Soluble.			
	Partition coefficient: n-octano	ol/water	Not deter	mined.		
	Auto-ignition temperature		Not deter	mined.		
	Decomposition temperature		Not deter	mined.		
	Viscosity		Not deter	mined.		
	Explosive properties		Not appli	cable.		
	Oxidising properties		Not appli	cable.		
9.2	Other information					
	No further relevant information	on available.				
SCTION		ty				
10.1	Reactivity:					
	No further relevant info	ormation available	Э.			
10.2	Chemical stability:					
	Stable under normal te	-	pressures	6.		
10.3	Possibility of hazardous reac					
	No dangerous reaction	is known.				
10.4	Condition to Avoid:					
	Avoid direct sunlight ar	nd high temperati	ure.			
10.5	Incompatible materials:					
	No further relevant info		Э.			
10.6	Hazardous Decomposition P					
	None under normal cor	nditions of storag	e and use	Э.		
SCTION						
11.1	Information on toxicological e					
	,	1302 Harmful if sv	vallowed.			
	P	hosphoric acid;				
		Oral		rat	LD50	1530 mg/kg
	_	Dermal		rabbit	LD50	2740 mg/kg
	Z	inc oxide;				5000
		Oral		rat	LD50	> 5000 mg/kg
		Inhalatio	. ,	rat	LC50	> 5.7 mg/kg
		1314 Causes sev			i eye dan	nage.
		1318 Causes seri	ous eye c	lamage.		
	Sensitization to the respirator	•				
	В	ased on available	e data, th	e classifi	cation cr	iteria 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.		
Specific target organ toxicity (single exposure):			
	H335 May cause respiratory irritation.		
	H371 May cause damage to organs. (systemic toxicity)		
Specific target organ toxicity (repeated exposure):			
	H373 May cause damage to organs through prolonged or repeated exposure. (lung)		
Aspiration hazard:	Based on available data, the classification criteria are not met.		
12 Ecological informa	ation		

SCTION 12. Ecological information

12.1 Toxicity:

No further relevant information available.

12.2 Persistence and degradability:

No further relevant information available.

12.3 Bioaccumulative potential:

No further relevant information available.

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 13. Disposal considerations

13.1 Waste treatment methods: Dispose of contents/container to in accordance with local/regional/national/international regulations.

SCTION 14.Transport information14.1UN number:180514.2UN proper shipping name:Phosphoric acid, solution14.3Transport hazard class(es):8 Corrosive substances.14.4Packing group:III14.5Environmental hazards:No

14.6 Special precautions for user: Not applicable.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:

Not applicable.

SCTION 15. Regulatory informati

Follow all regulations in your country.



SCTION 16. Other information

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

Relevant phrases:

- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

- H371 May cause damage to organs. (systemic toxicity)
- H373 May cause damage to organs through prolonged or repeated exposure. (lung)
- H401 Toxic to aquatic life.
- H412 Harmful to aquatic life with long lasting effects.

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