according to 1907/2006/EC, Article 31 Hoffmann Dental Manufaktur GmbH

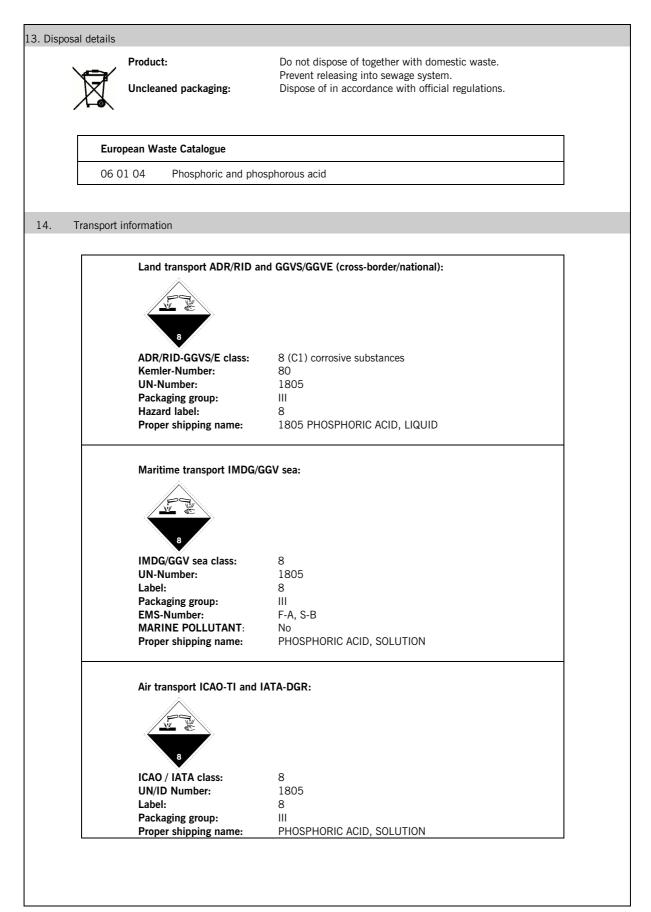
Reviewed on: 1 June 2012

1. Identification of substance and manufacturer's name Product details/Trade name: HOFFMANN'S READY2PROTECT Copperioncement, LIQUID Manufacturer/Supplier: Wangenheimstr. 37/39, D-14193 Berlin Telephone: +49 (0) 30 / 82 00 99 0 Fax: +49 (0) 30 / 82 28 14 5 Information department/Emergency information: Quality assurance department e-mail: sicherheit@hoffmann-dental.com 2. Composition/Data on ingredients Chemical characterization: Description: Mixture of below-mentioned substances with innocuous additions. Hazardous ingredients: CAS: 1314-13-2 Zinc Oxide Warning; H411 10 - 15 % EINECS: 215-222-5 N; R 51/53 CAS: 7664-38-2 > 50 % Ortho-Phosphoric Acid Danger; H314 EINECS: 231-633-2 C; R 34 3. Hazards identification Hazard designation: Hazardous to the environment Ν С Corrosive Special danger warning for human and environment: The product has to be labelled due to the calculation procedure of the "EU-Directive of the General Classification of Preparations" in the latest valid version. H314: Causes severe skin burns and eye damage. H411: Toxic to aquatic life with long lasting effects. R 34: Causes burns R 51/53: Toxic to aquatic organisms may cause long-term harmful effects in the waters. Classification system: The classification is in compliance with the current EU-lists, but is also completed with details given by technical literature and company. 4. First aid measures **General information:** Remove contaminated clothes immediately. - After skin contact: Remove with soap by washing under the running water. - After eve contact: Immediately flush opened eye under running water for several minutes (at least 10 min.), get prompt medical attention. Drink plenty of water, do not induce vomiting (danger of - After swallowing: perforation), and consult a physician immediately. - After inhaling: Not applicable. 5. Fire fighting measures Suitable extinguishing agents: Not applicable Special protective equipment: No special measures are required.

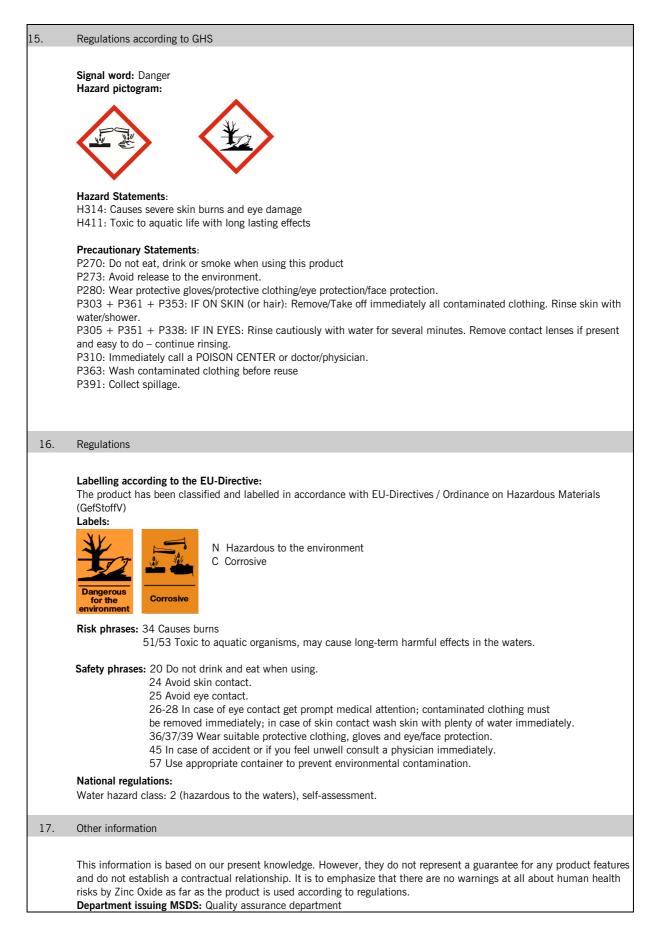
Accidental release mea	asures			
Person-related safety Environmental precau		Wear personal protective clothing. Inform responsible authorities in case of spillage into waters or sewage system. Dilute with plenty of water.		
Methods of cleaning u	p:	Absorb with liquid-binding material (chemical binders; use cellulose for		
Additional information	:	small amounts). Use neutralizing agent. See chapter 8 for information about personal protective equipment. See section 13 for disposal information.		
Handling and storage				
Handling:		The product is only for dental use.		
 Information about sa Information about pr 		Keep containers tightly closed.		
against explosion and		No special measures are required.		
Storage: - Information about st - Information about st	•	Store dry and tightly closed in original container.		
one common storage	facility:	Not required.		
- Requirements for sto	rage rooms:	No special requirements.		
Ingredients with limiting values that require monitoring at the workplace CAS 7664-38-2 Ortho-Phosphoric Acid (EU-No.: 231-633-2)				
		aboric Acid (FLI_No., 231_633_2)		
CAS 7664-38-2 TLV	Ortho-Phosp 1 mg/m ³	bhoric Acid (EU-No.: 231-633-2) EU EU		
TLV	1 mg/m ³	EU		
TLV Technical protective n Personal protective eq Respiratory protection	1 mg/m ³ neasures: Not require uipment: : Not required.	EU ed.		
TLV Technical protective n Personal protective eq Respiratory protection Skin protection: Wear product/the substance/	1 mg/m ³ neasures: Not require uipment: : Not required. suitable protective g the preparation. Due ation/the chemical n	EU ed. gloves; the glove material has to be impermeable and resistant to the e to absent tests no recommendations about the glove material can be giver nixture. The selection of the glove material should be in consideration of the		
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General information:	
Form:	Liquid
Colour:	Colourless
Odour:	Odourless
Change in state	
Boiling point/boiling range:	> 100 °C
Melting point/melting range:	Not determined
Flashpoint:	Not applicable
pH-value:	1 - 2
Autoflammability:	Product does not self ignite
Danger of explosion:	Product does not sen iginte
Density at 20 °C:	1,8 g/cm ³
Solubility in water:	Fully miscible
Solvent content:	
Organic solvents:	0,0 %
Water:	25 %
VOC EU:	0,0 %
Solids content:	19 %
	15 //
Stability and reactivity	
Conditions to be avoided:	No decomposition when used according to regulations.
Hazardous reactions:	No hazardous reactions are known.
Hazardous decomposition products:	No hazardous decomposition products are known.
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Toxicological information	
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according to 1907/2006/EC, Article 31 Hoffmann Dental Manufaktur GmbH



Hoffmann Dental Manufaktur GmbH



Reviewed on: 1 June 2012

1.	Identification of substance and manufacturer's name						
	Product details/Trade name:						
	\bigcirc						
	HOFFMANN'S READY2PROTECT Copperioncement, POWDER						
	Manufacturer/Supplier: Wangenheimstr. 37/39, D-14193 Berlin Telephone: +49 (0) 30 / 82 00 99 0 Fax: +49 (0) 30 / 82 28 14 5						
	Information department/Emergency information: Quality assurance department e-mail: sicherheit@hoffmann-dental.com						
2.	Composition/Data on ingredien	ts					
	Chemical characterization:						
	Description: Mixture of below-r	mentioned substances with inne	ocuous additions.				
	Hazardous ingredients:						
	CAS: 1314-13-2 EINECS: 215-222-5	Zinc Oxide	Warning; H410 N; R 50/53	80 - 90 %			
	CAS: 1309-48-4 EINECS: 215-171-9	Magnesium Oxide		5-10 %			
	CAS: 7789-75-5 EINECS: 232-188-7	Calcium Fluoride		0 – 5 %			
3.	Hazards identification						
	 Hazard designation: N Hazardous to the environment. Special danger warning for human and environment: The product has to be labelled due to the calculation procedure of the "EU-Directive of the General Classification of Preparations" in the latest valid version. H410: Very toxic to aquatic life with long lasting effects. R 50/53: Very toxic to aquatic organisms, may cause long-term harmful effects in the waters. Classification system: The classification is in compliance with the current EU-lists, but is also completed with details given by technical literature and company. 						
4.	First aid measures						
	After skin contact:After eye contact:	Fresh air. Remove by washing under the Flush opened eye with running (A plenty of substance) In case	water for several minutes				
5.	Fire fighting measures						
	Suitable extinguishing agents: Special protective equipment:	Not applicable No special measures	are required.				

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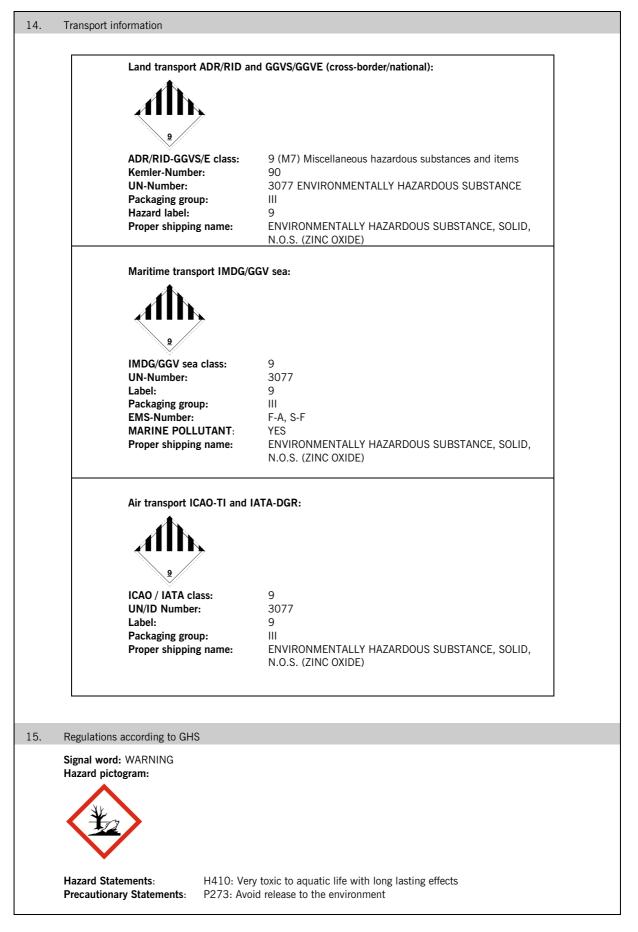
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	Accidental release	measures			
F	Person-related saf precautions: Environmental pre	-		ng of powder. spillage from entering the sewage system.	
ſ	Methods of cleanii		Pick up dry developmen	powder and dispose of as usual. Clean subsequently and prevent the t of dust.	
ŀ	Handling and stora	age			
-	Handling: - Information abou - Information abou against explosion	ut protection	ing:	The product is only for dental use. No special measures are required. No special measures are required.	
-	Storage: - Information about storage: - Information about storage in one common storage facility:			Store dry and tightly closed in original container.	
-	Requirements for		ns:	Not required. No special requirements.	
Ingredients with limiting values that require monitoring at the workplace					
	1314-13-2	Zinc Oxide	9	(EU-No.: 215-222-5)	
	TLV	1	. A mg/m ³	smoke; DFG	
	1309-48-4	Magnesiur	n Oxide	(EU-No.: 215-171-9)	
	TLV		6 A mg/m ³	smoke; DFG	
1		Calcium F	luoride	(EU-No.: 232-188-7)	
1	7789-75-5	Calcium			
	7789-75-5 TLV	2,	5 E mg/m ³ as F	DFG	
F F S S F L C C T C C T	TLV Technical protectiv Notice: When used Personal protectiv Respiratory protection: N substance/the prepar product/the prepar product/the prepar product/the prepar breakthrough time Material of gloves characteristics and resistance of the g	2, ve measures d according t e equipment ction: Not rec lot required n paration. Due ration/the che e, kinds of pen s: The select d varies from love material	IN ST	ed. is, no smoke containing zinc is released. the glove material has to be impermeable and resistant to the product/the tests no recommendations about the glove material can be given for the ure. The selection of the glove material should be in consideration of the d the degradation. suitable gloves does not only depend on material but also on further qui rer to manufacturer. As the product is a preparation of several substances calculated in advance and has to be checked prior to the application.	
ן 1 2 2 3 4 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TLV Technical protecti Notice: When used Personal protectiv Respiratory protection: N Substance/the prepar product/the prepar product/the prepar treakthrough time Material of gloves characteristics and resistance of the gi Penetration time of gloves and has to I For the permanent materials are suita Natural rubber (La	2, ve measures d according t re equipment ction: Not rec lot required n boration. Due ration/the che c, kinds of per c, kinds of per	s F Not required. ecessarily; to absent t emical mixture meation an ion of the manufactu can not be rial: The ex	ed. is, no smoke containing zinc is released. the glove material has to be impermeable and resistant to the product/the tests no recommendations about the glove material can be given for the ure. The selection of the glove material should be in consideration of the id the degradation. suitable gloves does not only depend on material but also on further qui rer to manufacturer. As the product is a preparation of several substances	

9.	Physical and chemical properties			
	General information:			
	Form:	Powder		
	Colour:	Whitish		
	Odour:	Odourless		
	Change in state			
	Boiling point/boiling range:	Not applicable		
	Melting point/melting range:	> 1.200 °C		
	Flash point:	Not applicable		
	pH-value:	Not applicable		
	Autoflammability:	The product does not self ignite.		
	Danger of explosion:	Product is not explosive		
	Bulk density:	500 kg/m ³		
	Solubility in water:	Insoluble		
	Solvent content:			
	Organic solvents:	0,0 %		
10.	Stability and reactivity			
	Conditions to be avoided:	No decomposition when used according to regulations.		
	Hazardous reactions:	No hazardous reactions are known.		
		No hazardous decomposition products are known.		
	Hazardous decomposition products:	No nazaruous decomposition products are known.		
11.	Toxicological information			
	Values given below refer to basic substance Zinc Oxide.			
	From subacute to chronic toxicity : Sensitisation: Mutagenicity Test: Ames-Test:	Research on human: no sensitising effect Negative; no mutagenic effect.		
	Additional toxicological information:	In our experience and according to the literature provided to us the product does not cause any noxious effects when used and handled according to regulations.		
12.	Ecological information			
	Referring to main substance:			
	Biological decomposition:Is not deterEcotoxicological information:QuantitativBiological effects:Very toxic tGeneral information:Prevent relevant	rmined. e data about ecological effects are not available for this product. to aquatic organisms. May cause long-term harmful effects in the waters. easing into waters, sewage system and soil. ard class 2 (self-assessment): hazardous to waters.		
13. Di	sposal details			
	Product: De	o not dispose of together with domestic waste.		
		revent releasing into sewage system.		
		ispose of in accordance with official regulations.		
	European Waste Catalogue			
	18 01 06 Chemicals containin	g or consisting of hazardous substances		

Material Safety Data Sheet

according to 1907/2006/EC, Article 31 Hoffmann Dental Manufaktur GmbH



16.	Regulations				
	Labelling according to EU-Directive: The product has been classified and labelled in accordance with EU-Directives / Ordinance on Hazardous Materials (GefStoffV). Labels:				
	Dangerous for the environment				
	Risk phrases: 50/53: Very toxic to aquatic organisms, may cause long-term harmful effects in waters.				
	Safety phrases: 57: Use appropriate container to avoid environmental contamination.				
	National regulations: Water hazard class: 2 (hazardous to waters), self-assessment.				
17.	Other information				
	This information is based on our present level of knowledge. However, they do not represent a guarantee for any product features and do not establish a contractual relationship. It is to emphasize that there are no warnings at all about human health risks by Zinc Oxide as far as the product is used according to regulations. Department issuing MSDS: Quality assurance department				