Hoffmann Dental Manufaktur GmbH

Reviewed on: 18 June 2012

1.	Identification of substance and manufacturer's name				
	Product details/Trade name:				
	HOFFMANN'S CEMENT QUICK SETTING, Liquid Manufacturer/Supplier: Wangenheimstr. 37/39, D-14193 Berlin Telephone: +49 (0) 30 / 82 00 99 0 Fax: +49 (0) 30 / 82 28 145 Fax: +49 (0) 30 / 82 28 145 Information department/Emergency information: Quality assurance department e-mail: sicherheit@hoffmann-dental.com				
2.	. Composition/Data on ingredients				
	Chemical characterization: Description: Mixture of below-m	entioned substances with innocu	ous additions.		
	Hazardous ingredie	nts:			
	CAS: 1314-13-2 EINECS: 215-222-5	Zinc Oxide	Warning; H411 N; R 51/53	10 – 15 %	
	CAS: 7664-38-2 EINECS: 231-633-2	Ortho-Phosphoric Acid	Danger; H314 C; R 34	> 50 %	
3. Hazards identification Hazard designation: N Hazardous to the environment					
	C 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 literatur and company.				
4.	4. First aid measures				
	General warnings:Remove contaminated clothing immediately After skin contact:Remove by washing with soap under the running water After eye contact:Immediately flush opened eye under running water for several minutes (at least 10 consult an eye specialist.				
	 After swallowing: After inhaling: 	Drink plenty of water, do not inc physician immediately. Not applicable.	luce vomiting (danger d	of perforation) and consu	ılt a
5.	Fire fighting measures				
	Suitable extinguishing agents : Special protective equipment:	Not applicable No special mea	sures required.		

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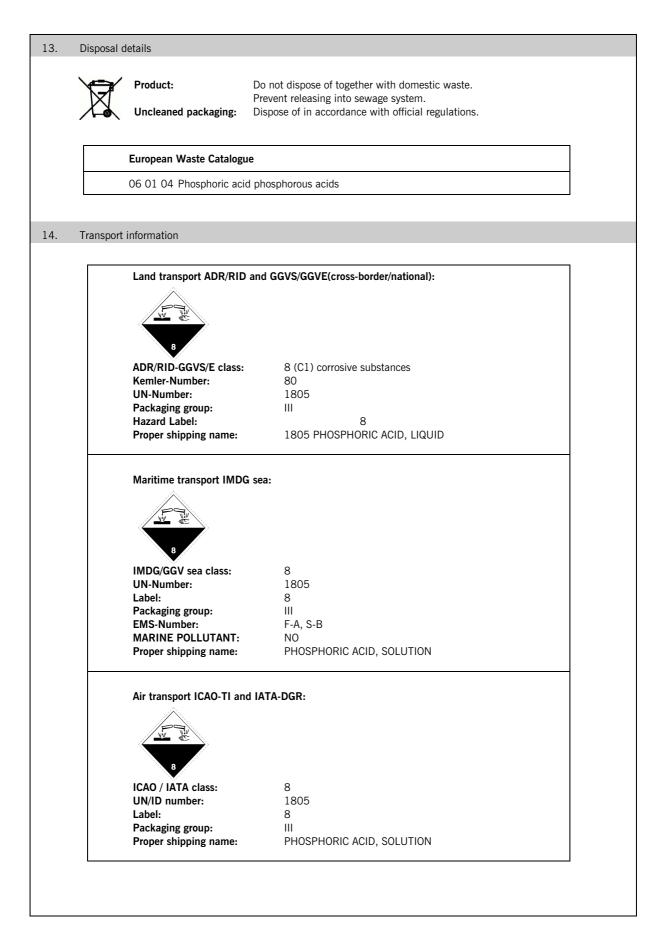
6.	Accidental release measures		
	Person-related safety		
	precautions:	Wear personal protective clothing.	
	Environmental precautions:	Inform responsible authorities in case of spillage into waters or sewage system. Dilute with	
	·	plenty of water.	
	Methods of cleaning up:	Absorb with liquid binding material (chemical binders; use cellulose for small	
		amounts). Use neutralizing agent.	
	Additional information:	See chapter 8 for information about personal protective equipment.	
		See chapter 13 for disposal information.	
7.	Handling and storage		
	Handling:	The product is only for dental use.	
	- Information about safe handl		
	- Information about protection		
	against explosion and fire:	No special measures are required.	
	Storage:		
	- Information about storage:	Store dry and tightly closed in original container.	
	- Information about storage in	Not service d	
	one common storage facility:	Not required.	
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General information	
Form:	Liquid
Colour:	Colourless
Odour:	Odourless
Change in state	100.00
Boiling point/boili	
Melting point/mel	
Flashpoint:	Not applicable
pH-value:	1 – 2
Autoflammability:	
Danger of explosion	
Density at 20 °C:	1,8 g/cm ³
Solubility in water	r: fully miscible
Solvent content:	
Organic solvents:	0,0 %
Water:	25 %
VOC EU:	0,0 %
Solid content:	19 %
Stability and reactivity	
Conditions to be avoided:	No decomposition when used according to regulations.
Hazardous reactions:	No hazardous reactions are known.
Hazardous decomposition pro	
	sic substance Phosphoric Acid:
5	sic substance Phosphoric Acid:
Values given below refer to ba	sic substance Phosphoric Acid: ce the product does not cause any noxious effects when used and handled according to
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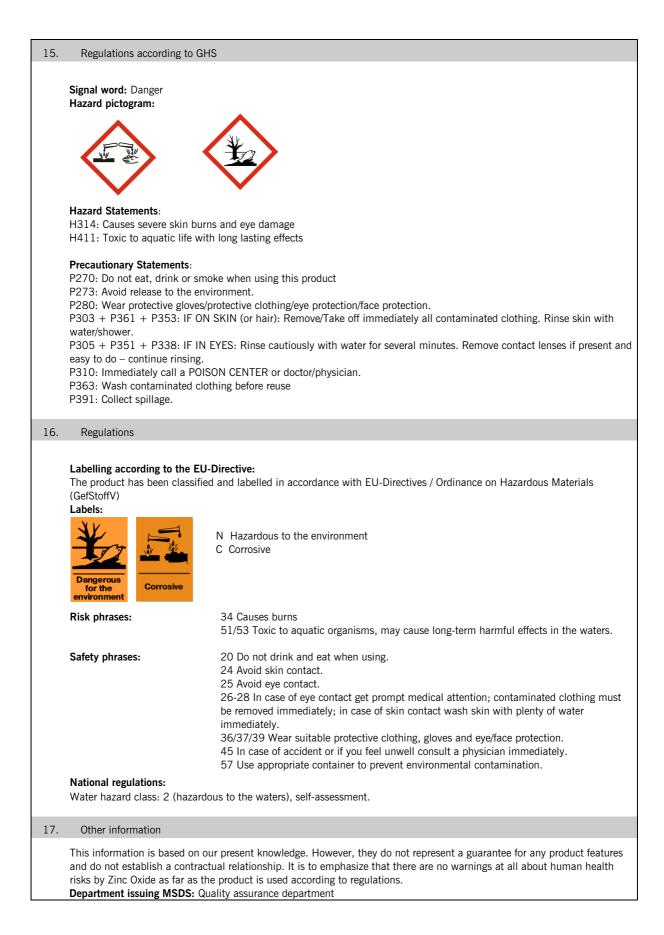
Material Safety Data Sheet

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



Material Safety Data Sheet

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



Reviewed on: 11 June 2012

1.	1. Identification of substance and manufacturer's name					
	Product details/Trade name:					
	HOFFMANN'S CEMENT QUICK SETTING, POWDER					
	Manufacturer/Supplier: Wangenheimstr. 37/39, D-14 Telephone: +49 (0) 30 / 82 0 Fax: +49 (0) 30 / 82 2 Information department/Emer Quality assurance department e-mail: sicherheit@hoffmann-0	00 99 0 28 145 gency information:				
2.	Composition/Data on ingredier	nts				
	Chemical characterization: Description: Mixture of below-mentioned substances with innocuous 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 %		
3.	Hazards identification					
	Hazard description: 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 waters. Classification system: The classification is in compliance with the latest EU-lists, but also completed with details given by technical litera and company.					
4.	First aid measures					
	- After inhaling - After skin contact: - After eye contact: - After swallowing:	Fresh air. Remove by washing under th Flush opened eye with runni (A plenty of substance) In ca	ng water for several minute	, i		
5.	Fire fighting measures					
	Suitable extinguishing agents: Special protective equipment:		res required.			
6.	Accidental release measures					
	Person-related safety precauti Environmental precautions: Methods of cleaning up:	Prevent any Pick up dry	ng of powder. spillage from entering the powder and dispose of as development of dust.		tly and	

7.	Handling and storag	e					
	 Handling: Information about safe handling: Information about protection against explosion and fire: Storage: Information about storage: Information about storage in one common storage facility: Requirements for storage rooms: 		The product is only for dental use. No special measures are required.				
			No special measures are required.				
			Store dry and tightly closed in original container.				
			Not required. No special requirements.				
8.	Exposure controls and personal protection						
	Data on limiting valu	Data on limiting values that require monitoring at the workplace:					
		-	equire monitoring at the workplace				
	1314-13-2	Zinc Oxide					
			(EU-No.: 215-222-5)				
	TLV	1 A mg/m ³	smoke; DFG				
	1309-48-4	Magnesium Oxide	(EU-No.: 215-171-9)				
	TLV	6 A mg/m ³	smoke; DFG				
	characteristics and varies from manufactures resistance of the glove material can not be Penetration time of glove material : The exploves and has to be observed. For the permanent contact in application material are suitable : Natural rubber (Laterian Science)		suitable gloves does not only depend on material, but also on further of arer to manufacturer. As the product is a preparation of several substance acalculated in advance and has to be checked prior to the application. Eact breakthrough time is to be obtained from the manufacturer of the prod areas without increased risk of injury (e.g. lab) gloves made of the follow ex). In of 15 minutes gloves made of the following material are suitable: a goggles with side protection. othing.				
9.	Physical and chemical properties						
	General information						
	Form:		Powder				
	Colour: Odour:		Whitish Odourless				
	Change in state						
	Boiling point/boi	ling range:	Not applicable				
	Melting point/me		> 1.200 °C				
	Flashpoint:		Not applicable				
	pH-value:		Not applicable				
	Autoflammability		Product does not self ignite				
	Danger of explos		Product is not explosive				
	Bulk density:		500 kg/m ³				
	Solubility in wat		Insoluble				
	Solvent content:		2.0.%				

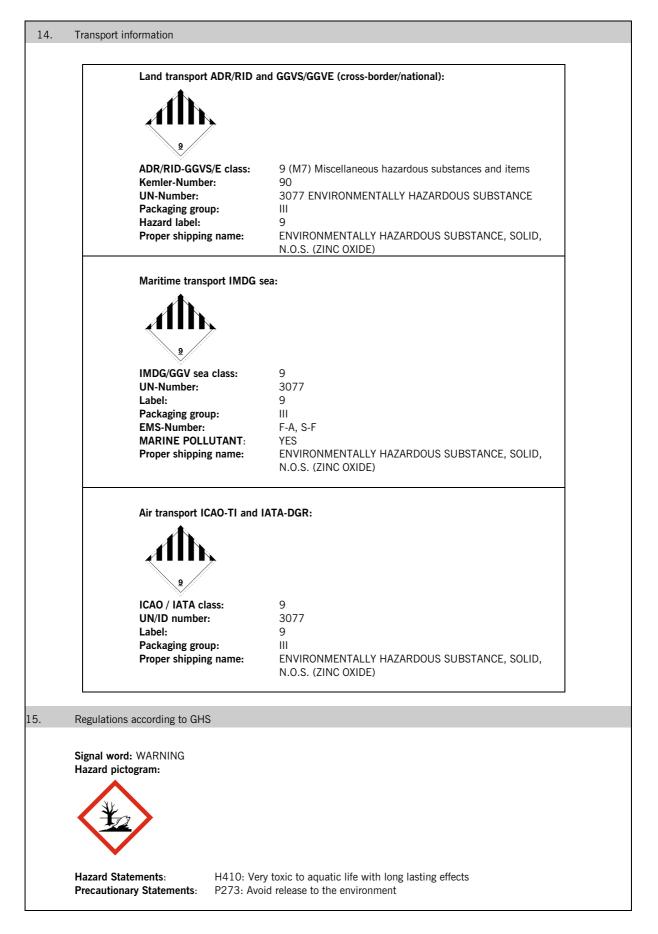
0,0 %

Organic solvents:

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10.	Stability and reactivity	
	Conditions to be avoided: Hazardous reactions: Hazardous decomposition products:	No decomposition when used according to regulations. No hazardous reactions are known. No hazardous decomposition products are known.
11.	Toxicological information	
	Values given below refer to basic substance From subacute to chronic toxicity : Sensitisation: <u>Research on human</u> : Mutagenicity Test: Ames-Test: Nega Additional toxicological information:	no sensitising effect
12.	Ecological information	
	Referring to main substance: Biological decomposition: Ecotoxicological information: Biological effects: General information: Water hazard class 2 (self-assessment):	Is not determined. Quantitative data about ecological effects are not available for this product. Very toxic to aquatic organisms. May cause long-term harmful effects in the waters. Prevent releasing into waters, sewage system and soil. hazardous to waters.
13. Dispo	osal details	
	Product: Uncleaned packaging:	Do not dispose of together with domestic waste. Prevent releasing into sewage system. Dispose of in accordance with official regulations.
	European Waste Catalogue	
		or consisting of hazardous substances

Hoffmann Dental Manufaktur GmbH



1.6			
16.	Regulations		
	Labelling according to EU guideline: The product has been classified and labelled in accordance with EU Directives / Ordinance on Hazardous Materials (GefStoffV) Labels:		
	N Hazardous to the environment		
	Risk phrases:50/53 Very toxic to aquatic organisms, may cause long-term harmful effects in the 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 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		