Material Safety Data Sheet according to 1907/2006/EC, Article 31

Hoffmann Dental Manufaktur GmbH

1.	Identification of substance and manufacturer's name										
	Product details/Trade name:										
	HOFFMANN'S CEMENT NORMAL 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 Information department/Emergency information:										
						Quality assurance department e-mail: sicherheit@hoffmann-dental.com					
						2.	Composition/Data on ingredients				
						۷.		11.5			
		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	10 10 //							
	CAS: 7664-38-2 EINECS: 231-633-2	Ortho-Phosphoric Acid	Danger; H314 C; R 34	> 50 %							
			0,01								
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 Cla 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 b and company.										
4.	First aid measures										
	General warnings: - After skin contact: - After eye contact:	Remove contaminated clothing immediately. Remove by washing with soap under the running water. Immediately flush opened eye under running water for several minutes (at least 10 min.), consult an eye specialist.									
	- After swallowing:	Drink plenty of water, do not induce vomiting (danger of perforation) and consult a physician immediately.									
	- After inhaling:	Not applicable.									
5.	Fire fighting measures										

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6.	Accidental release measures				
	Person-related safety precautions: Environmental precautions:	Wear personal protective clothing. 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			
	Additional information:	amounts). Use neutralizing agent. See chapter 8 for information about personal protective equipment. See chapter 13 for disposal information.			
7.	Handling and storage				
	Handling: - Information about safe handli - Information about protection against explosion and fire:	g:The product is only for dental use.g:Keep containers tightly closed.No special measures are required.			
	Storage: - Information about storage: - Information about storage in one common storage facility: - Requirements for storage roor	Store dry and tightly closed in original container. Not required. s: No special requirements.			
	Data on limiting values that require monitoring at the workplace:				
	CAS 7664-38-2	Ortho-Phosphoric Acid (EU-No.: 231-633-2)			
	TLV	1 mg/m ³ EU			
	 Technical protective measures: Not required. Personal protective equipment: Respiratory protection: Not required. Skin protection: Wear suitable protective gloves; the glove material has to be impermeable and resistant to the product/the substance/the preparation. Due to absent tests no recommendations about the glove material can be given for the product/the preparation/the chemical mixture. The selection of the glove material should be in consideration of the breakthrough time, kinds of permeation and the degradation. Material of gloves: The selection of the suitable gloves does not only depend on material but also on further quality caracteristics 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 to be checked prior to the application. Suitable glove material is e. g. butyl rubber, fluorocarbon rubber (Viton), natural rubber (Latex). For the permanent contact of a maximum of 15 minutes gloves made of PVC or PE are suitable. Penetration time of glove material: The exact breakthrough time is to be obtained from the manufacturer of the protective gloves and has to be observed. Eye protection: Protective goggles with side protection are recommended. Body protection: Lightweight protective clothing. 				
	General protective and hygienic	5			

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9. Physical and chemical properties 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 is not explosive Density at 20 °C: 1,8 g/cm3 Solubility in water: fully miscible Solvent content: **Organic solvents:** 0.0 % Water: 25 % VOC EU: 0.0 % Solid content: 19 % 10. 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. 11. Toxicological information Values given below refer to basic substance Phosphoric Acid: Acute toxicity: In our experience the product does not cause any noxious effects when used and handled according to regulations. LD50 (dermal rabbit): 2740 mg/kg (referring to pure substance) LDLo (oral, rat): 1530 mg/kg (referring to pure substance) LC50/4h (relating to inhalation, rat : > 850 mg/ I (referring to pure substance) Specific symptoms in animal experiments: Test for for eye irritation (rabbit): Corrosive effect Test for for skin irritation (rabbit): Corrosive effect From subacute to chronic toxicity : Sensitisation, Research on human: No sensitisation effect Mutagenicity, Ames-Test: Negative; no mutagenic effect. Irritation effects on human: - Swallowing: Strong corrosive effect on mouth and throat. - Skin: Corrosive effect. - Eye: Strong corrosive effect. 12. Ecological information Referring to main substance: Biological decomposition: Is not determined. **Ecotoxicological information:** Quantitative data about ecological effects are not available for this product. **Biological effects:** Very toxic to aquatic organisms. May cause long-term harmful effects in the waters. General information: Prevent releasing into waters, sewage system and soil. Water hazard class 2 (self-assessment): hazardous to water.

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