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

Hoffmann Dental Manufaktur GmbH

1.	Identification of substance an	d manufacturer's name								
	Product details/Trade name: With the second seco									
2.								Composition/Data on ingredie		
							Chemical characterization: Description: Mixture of below-mentioned substances with innocuous additions.			
	Hazardous ingredients:									
	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 literature and company.									
4.	First aid measures									
	General warnings: - After skin contact: - After eye contact:	Remove contaminated clothing in Remove by washing with soap un Immediately flush opened eye un consult an eye specialist.	nder the running water der running water for s	several minutes (at least 10 min						
	- After swallowing: - After inhaling:	Drink plenty of water, do not induce vomiting (danger of perforation) and consult a physician immediately. Not applicable.								
5.	Fire fighting measures									
	Suitable extinguishing agents :	Not applicable								

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

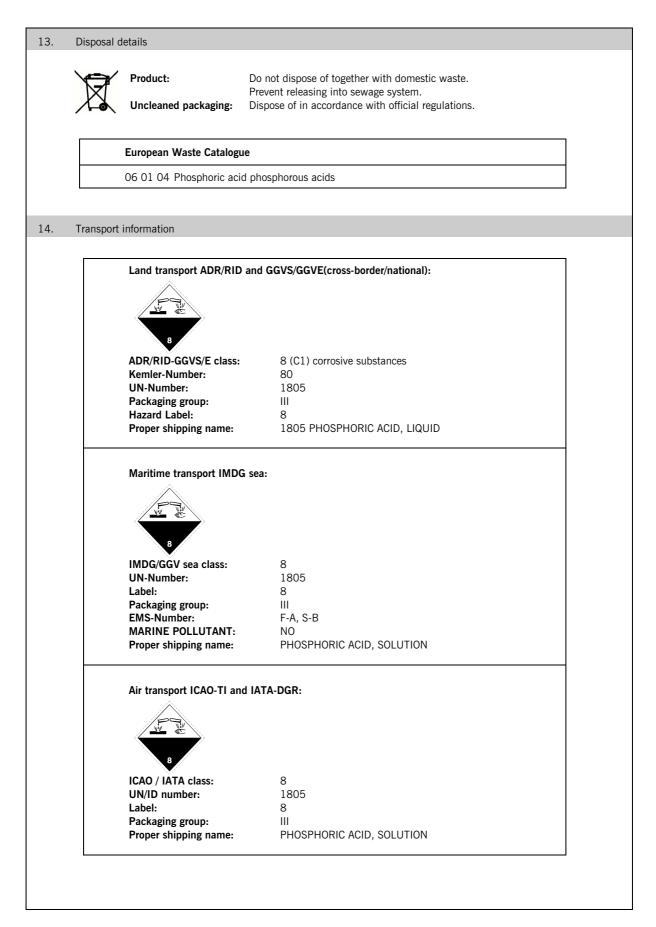
Hoffmann Dental Manufaktur GmbH

6.					
	Accidental release measures				
	Person-related safety precautions: Environmental precautions:	Wear personal protective clothing. Inform responsible authorities in case of spi plenty of water.	llage into waters or sewage system. Dilute with		
	Methods of cleaning up:	Absorb with liquid binding material (chemic	al binders; use cellulose for small		
	Additional information:	amounts). Use neutralizing agent. See chapter 8 for information about persona See chapter 13 for disposal information.	al protective equipment.		
7.	Handling and storage				
	Handling: - Information about safe handli - Information about protection against explosion and fire:	The product is only for den         ng:       Keep containers tightly close         No special measures are re	sed.		
	Storage: - Information about storage: - Information about storage in one common storage facility: - Requirements for storage room	Store dry and tightly closed Not required. <b>ms:</b> No special requirements.	in original container.		
	- Requirements for storage root	ins: No special requirements.			
8.	Exposure controls and persor	al protection			
	Data on limiting values that require monitoring at the workplace:         Ingredients with limiting values that require monitoring at the workplace         CAS 7664.38.2         Orthe Decemberia Acid				
	CAS 7664-38-2 TLV	Ortho-Phosphoric Acid 1 mg/m <sup>3</sup> EU	(EU-No.: 231-633-2)		
	CAS 7664-38-2 TLV Technical protective measures: Personal protective equipment: Respiratory protection: Not req Skin protection: Wear suitable substance/the preparation. Due product/the preparation/the che breakthrough time, kinds of per Material of gloves: The selectio caracteristics and varies from m resistance of the glove material glove material is e. g. butyl rub maximum of 15 minutes gloves	Ortho-Phosphoric Acid 1 mg/m <sup>3</sup> EU Not required. uired. protective gloves; the glove material has to be to absent tests no recommendations about the mical mixture. The selection of the glove material meation and the degradation. n of the suitable gloves does not only depend hanufacturer to manufacturer. As the product can not be calculated in advance and has to ber, fluorocarbon rubber (Viton), natural rubb s made of PVC or PE are suitable.	(EU-No.: 231-633-2) e impermeable and resistant to the product/the ne glove material can be given for the erial should be in consideration of the on material but also on further quality is a preparation of several substances, the be checked prior to the application. Suitable er (Latex). For the permanent contact of a		
	CAS 7664-38-2 TLV Technical protective measures: Personal protective equipment: Respiratory protection: Not req Skin protection: Wear suitable substance/the preparation. Due product/the preparation/the che breakthrough time, kinds of per Material of gloves: The selectio caracteristics and varies from m resistance of the glove material glove material is e. g. butyl rub maximum of 15 minutes gloves Penetration time of glove mater gloves and has to be observed. Eye protection: Protective gogg Body protection: Lightweight p General protective and hygieni	Ortho-Phosphoric Acid           1 mg/m³         EU           Not required.         EU           uired.         EU           protective gloves; the glove material has to be to absent tests no recommendations about the mical mixture. The selection of the glove material mature. The selection of the glove material mature is to be cloud an ufacturer to manufacturer. As the product can not be calculated in advance and has to ber, fluorocarbon rubber (Viton), natural rubb is made of PVC or PE are suitable.           rial: The exact breakthrough time is to be obt les with side protection are recommended. rotective clothing.	(EU-No.: 231-633-2) e impermeable and resistant to the product/the ne glove material can be given for the erial should be in consideration of the on material but also on further quality is a preparation of several substances, the be checked prior to the application. Suitable er (Latex). For the permanent contact of a ained from the manufacturer of the protective		

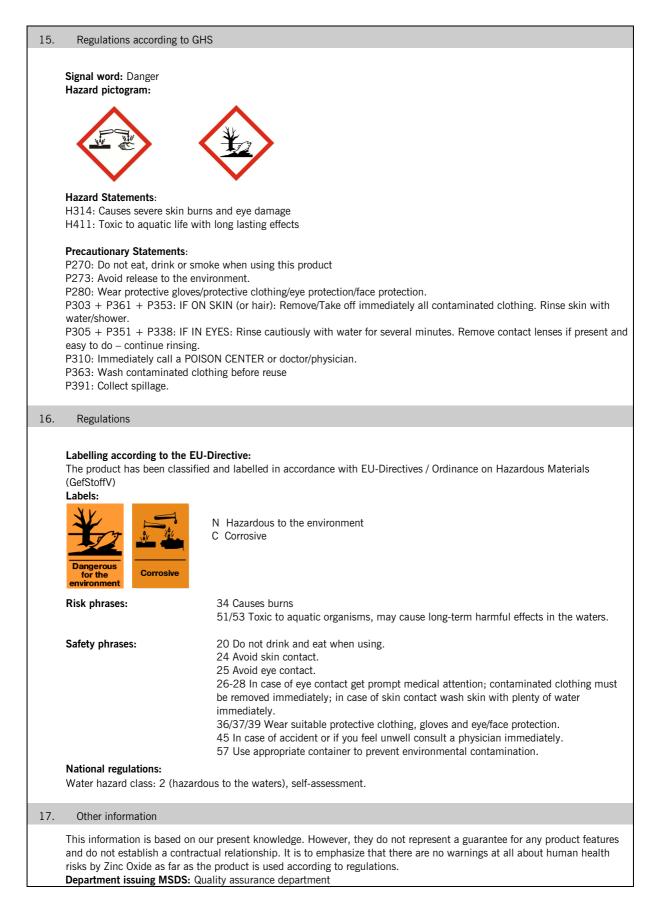
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9. Physical and chemical properties General information: Form: Liquid Colour: Colourless Odour: Odourless Change in state Boiling point/boiling range: > 100 °C Melting point/melting range: Not determined Flashpoint: Not applicable pH-value: 1 – 2 Autoflammability: 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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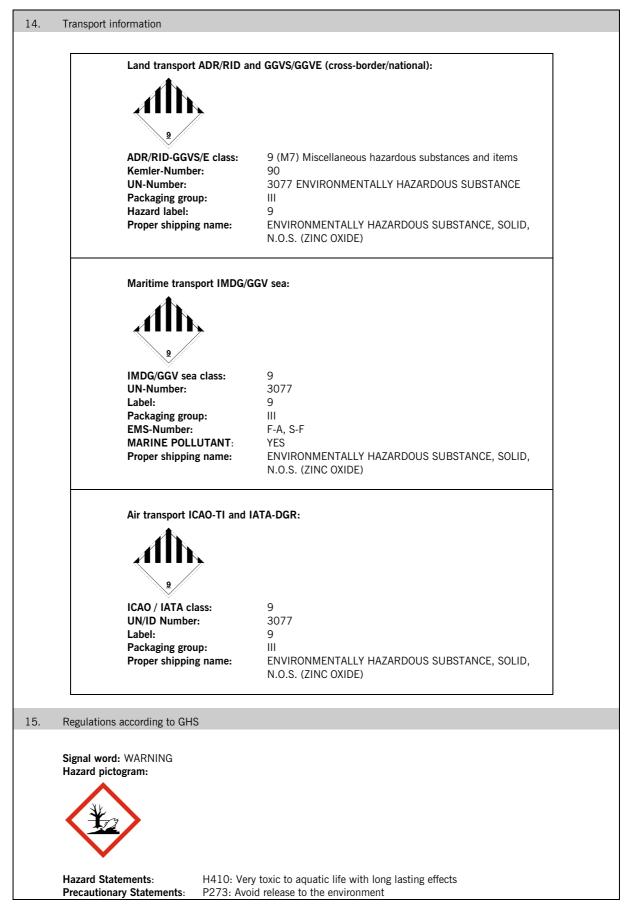
Reviewed on: 12 June 2012

1.	Identification of substance and manufacturer's name					
	Product details/Trade name:					
	HOFFMANN'S CEMENT NORMAL SETTING, POWDER					
	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 ingredient	S				
	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 O	xide		5 - 10 %	
	CAS: 7789-75-5 EINECS: 232-188-7	Calcium Fluor	ide		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:		th running wat	er for several min	utes. Consult an eye special sult a physician immediatel	
5.	Fire fighting measures					
	Suitable extinguishing agents: Special protective equipment:		applicable special measur	es are required.		
6.	Accidental release measures					
	Person-related safety precautic Environmental precautions: Methods of cleaning up:	Prev Picł	up dry powde	ge from entering th	ne sewage system. s usual. Clean subsequently	y and

Handling:		The product is only for dental use.	
- Information abo	ut safe handling:	No special measures are required.	
- Information abo	ut protection		
against explosio	n and fire:	No special measures are required.	
Storage:			
- Information abo	-	Store dry and tightly closed in original container.	
<ul> <li>Information about storage in one common storage facility:</li> </ul>		Not required.	
- Requirements fo	• •	No special requirements.	
Exposure controls	and personal protection		
Data on limiting y	alues that require monit	oring at the workplace.	
	and s that require monit	Sing at the workplace.	
Ingredients w	vith limiting values that i	require monitoring at the workplace	
1314-13-2	Zinc Oxide	(EU-No.: 215-222-5)	
TLV	1 A mg/m <sup>3</sup>	smoke; DFG	
1309-48-4	Magnesium Oxide	(EU-No.: 215-171-9)	
TLV	6 A mg/m <sup>3</sup>	smoke; DFG	
7789-75-5	Calcium Fluoride	(EU-No.: 232-188-7)	
TLV	2,5 E mg/m <sup>3</sup>	DFG	
	as F		
	ive measures: Not requir	ed.	
Technical protect	ad according to regulation		
Notice: When use	0 0	ns, no smoke containing zinc is released.	
Notice: When use Personal protective	ve equipment	is, no smoke containing zinc is released.	
Notice: When use Personal protectiv Respiratory protection	ve equipment ction: Not required.		
Notice: When use Personal protectiv Respiratory protections Skin protection: N	ve equipment ction: Not required. Not required necessarily;		
Notice: When use Personal protective Respiratory protection: N Substance/the prep product/the prepa	ve equipment ction: Not required. Not required necessarily; paration. Due to absent t ration/the chemical mixtu	the glove material has to be impermeable and resistant to the product/th 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	
Notice: When use Personal protective Respiratory protection: N substance/the prep product/the prepa breakthrough time	ve equipment ction: Not required. Not required necessarily; paration. Due to absent t ration/the chemical mixtu e, kinds of permeation an	the glove material has to be impermeable and resistant to the product/th 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 ind the degradation.	
Notice: When use Personal protective Respiratory protection: N substance/the prep product/the prepa breakthrough time Material of gloves	ve equipment ction: Not required. Not required necessarily; paration. Due to absent t ration/the chemical mixtu e, kinds of permeation an s: The selection of the	the glove material has to be impermeable and resistant to the product/th 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 ind the degradation. suitable gloves does not only depend on material but also on further	
Notice: When use Personal protective Respiratory protection: N substance/the prep product/the prepa breakthrough time Material of gloves characteristics and	ve equipment ction: Not required. Not required necessarily; paration. Due to absent t ration/the chemical mixtu e, kinds of permeation an s: The selection of the d varies from manufactu	the glove material has to be impermeable and resistant to the product/th 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 rer to manufacturer. As the product is a preparation of several substance	
Notice: When use Personal protective Respiratory protection: N substance/the prepa breakthrough time Material of gloves characteristics and resistance of the g	ve equipment ction: Not required. Not required necessarily; paration. Due to absent t ration/the chemical mixtu e, kinds of permeation an s: The selection of the d varies from manufactu glove material can not be	the glove material has to be impermeable and resistant to the product/th 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 rer to manufacturer. As the product is a preparation of several substance calculated in advance and has to be checked prior to the application.	
Notice: When use Personal protective Respiratory protection: N substance/the prepa breakthrough time Material of gloves characteristics and resistance of the g Penetration time gloves and has to	ve equipment ction: Not required. Not required necessarily; aparation. Due to absent t ration/the chemical mixtue, kinds of permeation an s: The selection of the d varies from manufactu glove material can not be of glove material: The ex be observed.	the glove material has to be impermeable and resistant to the product/th 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 rer to manufacturer. As the product is a preparation of several substance calculated in advance and has to be checked prior to the application. act breakthrough time is to be obtained from the manufacturer of the pro-	
Notice: When use Personal protection Respiratory protect Skin protection: N substance/the prepa breakthrough time Material of gloves characteristics and resistance of the g Penetration time gloves and has to For the permanent	ve equipment ction: Not required. Not required necessarily; paration. Due to absent t ration/the chemical mixtu e, kinds of permeation an s: The selection of the d varies from manufactu glove material can not be of glove material: The ex be observed. nt contact in application	the glove material has to be impermeable and resistant to the product/th 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 rer to manufacturer. As the product is a preparation of several substance calculated in advance and has to be checked prior to the application. act breakthrough time is to be obtained from the manufacturer of the pro-	
Notice: When use Personal protective Respiratory protection: N substance/the prepa breakthrough time Material of gloves characteristics and resistance of the g Penetration time gloves and has to For the permanent materials are suits	ve equipment ction: Not required. Not required necessarily; aparation. Due to absent t ration/the chemical mixtue, kinds of permeation an s: The selection of the d varies from manufactu glove material can not be of glove material: The ex be observed. nt contact in application able:	the glove material has to be impermeable and resistant to the product/th 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 rer to manufacturer. As the product is a preparation of several substance calculated in advance and has to be checked prior to the application. act breakthrough time is to be obtained from the manufacturer of the pro-	
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Notice: When use Personal protective Respiratory protection: N substance/the prepa breakthrough time Material of gloves characteristics and resistance of the g Penetration time gloves and has to For the permanent materials are suits Natural rubber (La	ve equipment ction: Not required. Not required necessarily; aparation. Due to absent t ration/the chemical mixtu e, kinds of permeation an s: The selection of the d varies from manufactu glove material can not be of glove material: The ex be observed. nt contact in application able: atex). nt contact of a maximum	the glove material has to be impermeable and resistant to the product/th 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 rer to manufacturer. As the product is a preparation of several substance calculated in advance and has to be checked prior to the application. act breakthrough time is to be obtained from the manufacturer of the pro-	
Notice: When use Personal protection Respiratory protect Skin protection: N substance/the prepa breakthrough time Material of gloves characteristics and resistance of the g Penetration time gloves and has to For the permanent materials are suita Natural rubber (La For the permanent Natural rubber (La Eye protection: Re	ve equipment ction: Not required. Not required necessarily; aparation. Due to absent t ration/the chemical mixtu e, kinds of permeation an s: The selection of the d varies from manufactu glove material can not be of glove material: The ex be observed. ht contact in application able: atex). ht contact of a maximum atex). ecommended: Protective	the glove material has to be impermeable and resistant to the product/th 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 rer to manufacturer. As the product is a preparation of several substance calculated in advance and has to be checked prior to the application. act breakthrough time is to be obtained from the manufacturer of the pro- areas without increased risk of injury (e. g. lab) gloves made of the follow of 15 minutes gloves made of the following material are suitable: goggles with side protection.	
Notice: When use Personal protective Respiratory protect Skin protection: N substance/the prepa breakthrough time Material of gloves characteristics and resistance of the g Penetration time gloves and has to For the permanent materials are suit Natural rubber (La For the permanent Natural rubber (La Eye protection: R Body protection: R	ve equipment ction: Not required. Not required necessarily; aparation. Due to absent t ration/the chemical mixtue, kinds of permeation an s: The selection of the d varies from manufactu glove material can not be of glove material: The ex be observed. ht contact in application able: atex). ht contact of a maximum atex).	the glove material has to be impermeable and resistant to the product/th 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 ad the degradation. suitable gloves does not only depend on material but also on further rer to manufacturer. As the product is a preparation of several substance calculated in advance and has to be checked prior to the application. act breakthrough time is to be obtained from the manufacturer of the pro- areas without increased risk of injury (e. g. lab) gloves made of the follo of 15 minutes gloves made of the following material are suitable: goggles with side protection. bthing.	

	General information:				
	Form:	Powder			
	Colour:	Whitish			
	Odour:	Odourless			
	Change in state				
	Boiling point/boiling range:	Not applicable			
	Melting point/melting range:	> 1.200 °C Not applicable Not applicable			
	Flash point:				
	pH-value:				
	-				
	Autoflammability:	The product does not self ignite. Product is not explosive 500 kg/m <sup>3</sup>			
	Danger of explosion:				
	Bulk density:				
	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.			
	Hazardous decomposition products:	No hazardous decomposition products are known.			
11.	Toxicological information				
	From subacute to chronic toxicity : Sensitisation: <u>Research on human</u> : no sensitising effect Mutagenicity Test: Ames-Test:Negative; no mutagenic effect.				
	Additional toxicological information:	In the second second second was to the Discussion and discuss the			
		In our experience and according to the literature provided to us the product does not cause any noxious effects when used and handled vv according to regulations.			
12.	Ecological information	product does not cause any noxious effects when used and handled vv			
12.	-	product does not cause any noxious effects when used and handled vv			
12.	Referring to main substance:	product does not cause any noxious effects when used and handled vv according to regulations.			
12.	Referring to main substance: Biological decomposition:	product does not cause any noxious effects when used and handled vv according to regulations.			
12.	Referring to main substance:	product does not cause any noxious effects when used and handled vv according to regulations. Is not determined. Quantitative data about ecological effects are not available for this			
12.	Referring to main substance: Biological decomposition: Ecotoxicological information:	product does not cause any noxious effects when used and handled vv according to regulations. Is not determined. Quantitative data about ecological effects are not available for this product.			
12.	Referring to main substance: Biological decomposition:	product does not cause any noxious effects when used and handled vv according to regulations. 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			
12.	Referring to main substance: Biological decomposition: Ecotoxicological information:	product does not cause any noxious effects when used and handled vv according to regulations. Is not determined. Quantitative data about ecological effects are not available for this product.			
12.	Referring to main substance: Biological decomposition: Ecotoxicological information: Biological effects: General information:	product does not cause any noxious effects when used and handled vv according to regulations. 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.			
	Referring to main substance: Biological decomposition: Ecotoxicological information: Biological effects: General information: Disposal details	product does not cause any noxious effects when used and handled vv according to regulations. 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. Water hazard class 2 (self-assessment): hazardous to waters.			
	Referring to main substance: Biological decomposition: Ecotoxicological information: Biological effects: General information:	product does not cause any noxious effects when used and handled vv according to regulations. 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. Water hazard class 2 (self-assessment): hazardous to waters. Do not dispose of together with domestic waste.			
	Referring to main substance: Biological decomposition: Ecotoxicological information: Biological effects: General information: Disposal details	product does not cause any noxious effects when used and handled vv according to regulations. 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. Water hazard class 2 (self-assessment): hazardous to waters.			
	Referring to main substance: Biological decomposition: Ecotoxicological information: Biological effects: General information: Disposal details Yroduct:	<ul> <li>product does not cause any noxious effects when used and handled vv according to regulations.</li> <li>Is not determined.</li> <li>Quantitative data about ecological effects are not available for this product.</li> <li>Very toxic to aquatic organisms. May cause long-term harmful effects in the waters.</li> <li>Prevent releasing into waters, sewage system and soil.</li> <li>Water hazard class 2 (self-assessment): hazardous to waters.</li> </ul> Do not dispose of together with domestic waste. Prevent releasing into sewage system.			
	Referring to main substance: Biological decomposition: Ecotoxicological information: Biological effects: General information: Disposal details Yroduct:	<ul> <li>product does not cause any noxious effects when used and handled vv according to regulations.</li> <li>Is not determined.</li> <li>Quantitative data about ecological effects are not available for this product.</li> <li>Very toxic to aquatic organisms. May cause long-term harmful effects in the waters.</li> <li>Prevent releasing into waters, sewage system and soil.</li> <li>Water hazard class 2 (self-assessment): hazardous to waters.</li> </ul> Do not dispose of together with domestic waste. Prevent releasing into sewage system.			

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16.	Regulations			
	Labelling according to EL The product has been cla (GefStoffV). Labels:	J-Directive: ssified and labelled in accordance with EU-Directives / Ordinance on Hazardous Materials		
	Dangerous for the environment	N Hazardous to the environment		
	Risk phrases: Safety phrases:	50/53 Very toxic to aquatic organisms, may cause long-term harmful effects in waters. 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. <b>Department issuing MSDS:</b> Quality assurance department			