

# Material Safety Data Sheet

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

Reviewed on: 11 June 2012

<b>1. Identification of substance and manufacturer's name</b>			
<b>Product details/Trade name:</b>			
			
<b>HOFFMANN'S</b> CEMENT QUICK SETTING, POWDER			
<b>Manufacturer/Supplier:</b>			
Wangenheimstr. 37/39, D-14193 Berlin			
Telephone: +49 (0) 30 / 82 00 99 0			
Fax: +49 (0) 30 / 82 28 145			
<b>Information department/Emergency information:</b>			
Quality assurance department			
e-mail: sicherheit@hoffmann-dental.com			
<b>2. Composition/Data on ingredients</b>			
<b>Chemical characterization:</b>			
<b>Description:</b> Mixture of below-mentioned substances with innocuous additions.			
<b>Hazardous ingredients:</b>			
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 %
<b>3. Hazards identification</b>			
<b>Hazard description:</b>			
N Hazardous to the environment			
<b>Special danger warning for human and environment:</b>			
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.			
<b>Classification system:</b>			
The classification is in compliance with the latest EU-lists, but also completed with details given by technical literature and company.			
<b>4. First aid measures</b>			
- After inhaling	Fresh air.		
- After skin contact:	Remove by washing under the running water.		
- After eye contact:	Flush opened eye with running water for several minutes. Consult an eye specialist.		
- After swallowing:	(A plenty of substance) In case of feeling unwell consult a physician immediately.		
<b>5. Fire fighting measures</b>			
<b>Suitable extinguishing agents:</b>	Not applicable.		
<b>Special protective equipment:</b>	No special measures required.		
<b>6. Accidental release measures</b>			
<b>Person-related safety precautions:</b>	Avoid inhaling of powder.		
<b>Environmental precautions:</b>	Prevent any spillage from entering the sewage system.		
<b>Methods of cleaning up:</b>	Pick up dry powder and dispose of as usual. Clean subsequently and prevent the development of dust.		

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## 7. Handling and storage

<b>Handling:</b>	The product is only for dental use.
- <b>Information about safe handling:</b>	No special measures are required.
- <b>Information about protection against explosion and fire:</b>	No special measures are required.
<b>Storage:</b>	
- <b>Information about storage:</b>	Store dry and tightly closed in original container.
- <b>Information about storage in one common storage facility:</b>	Not required.
- <b>Requirements for storage rooms:</b>	No special requirements.

## 8. Exposure controls and personal protection

### Data on limiting values that require monitoring at the workplace:

Ingredients with limiting values that 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

**Technical protective measures:** Not required.

**Notice:** When used according to regulations, no smoke containing zinc is released.

**Personal protective equipment:**

**Respiratory protection:** Not required.

**Skin protection:** Not required necessarily; 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 characteristics 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.

**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.

**For the permanent contact in application areas without increased risk of injury (e.g. lab) gloves made of the following material are suitable:** Natural rubber (Latex).

**For the permanent contact of a maximum of 15 minutes gloves made of the following material are suitable:** Natural rubber (Latex).

**Eye protection:** Recommended: Protective goggles with side protection.

**Body protection:** Lightweight protective clothing.

**General protective and hygienic measures:**

The usual precautionary measures for contact with chemicals are to observe.

## 9. Physical and chemical properties

General information:	
<b>Form:</b>	Powder
<b>Colour:</b>	Whitish
<b>Odour:</b>	Odourless
<b>Change in state</b>	
<b>Boiling point/boiling range:</b>	Not applicable
<b>Melting point/melting range:</b>	> 1.200 °C
<b>Flashpoint:</b>	Not applicable
<b>pH-value:</b>	Not applicable
<b>Autoflammability</b>	Product does not self ignite
<b>Danger of explosion:</b>	Product is not explosive
<b>Bulk density:</b>	500 kg/m <sup>3</sup>
<b>Solubility in water:</b>	Insoluble
<b>Solvent content:</b>	
<b>Organic solvents:</b>	0,0 %

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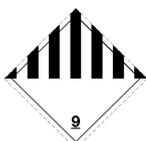
10. Stability and reactivity					
<b>Conditions to be avoided:</b>	No decomposition when used according to regulations.				
<b>Hazardous reactions:</b>	No hazardous reactions are known.				
<b>Hazardous decomposition products:</b>	No hazardous decomposition products are known.				
11. Toxicological information					
<b>Values given below refer to basic substance Zinc Oxide:</b>					
<b>From subacute to chronic toxicity :</b>					
Sensitisation: <u>Research on human</u> : no sensitising effect					
Mutagenicity Test: Ames-Test: Negative; no mutagenic effect.					
<b>Additional toxicological information:</b>	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					
<b>Referring to main substance:</b>					
<b>Biological decomposition:</b>	Is not determined.				
<b>Ecotoxicological information:</b>	Quantitative data about ecological effects are not available for this product.				
<b>Biological effects:</b>	Very toxic to aquatic organisms. May cause long-term harmful effects in the waters.				
<b>General information:</b>	Prevent releasing into waters, sewage system and soil.				
<b>Water hazard class 2 (self-assessment):</b>	hazardous to waters.				
13. Disposal details					
	<b>Product:</b> Do not dispose of together with domestic waste. Prevent releasing into sewage system.				
	<b>Uncleaned packaging:</b> Dispose of in accordance with official regulations.				
<table border="1"><tr><td colspan="2"><b>European Waste Catalogue</b></td></tr><tr><td>18 01 06</td><td>Chemicals containing or consisting of hazardous substances</td></tr></table>		<b>European Waste Catalogue</b>		18 01 06	Chemicals containing or consisting of hazardous substances
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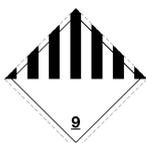
## 14. Transport information

### Land transport ADR/RID and GGVS/GGVE (cross-border/national):



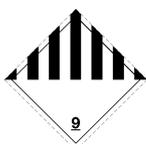
**ADR/RID-GGVS/E class:** 9 (M7) Miscellaneous hazardous substances and items  
**Kemler-Number:** 90  
**UN-Number:** 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE  
**Packaging group:** III  
**Hazard label:** 9  
**Proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC OXIDE)

### Maritime transport IMDG sea:



**IMDG/GGV sea class:** 9  
**UN-Number:** 3077  
**Label:** 9  
**Packaging group:** III  
**EMS-Number:** F-A, S-F  
**MARINE POLLUTANT:** YES  
**Proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC OXIDE)

### Air transport ICAO-TI and IATA-DGR:



**ICAO / IATA class:** 9  
**UN/ID number:** 3077  
**Label:** 9  
**Packaging group:** III  
**Proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC OXIDE)

## 15. Regulations according to GHS

**Signal word:** WARNING

**Hazard pictogram:**



**Hazard Statements:** H410: Very toxic to aquatic life with long lasting effects  
**Precautionary Statements:** P273: Avoid release to the environment

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## 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