

Material Safety Data Sheet

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

Reviewed on: 08 June 2012

1. Identification of substance and manufacturer's name			
Product details/Trade name:			
			
HOFFMANN'S UNIVERSAL CEMENT, 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 ingredients			
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 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 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.		
5. Fire fighting measures			
Suitable extinguishing agents:	Not applicable		
Special protective equipment:	No special measures are required.		
6. Accidental release measures			
Person-related safety precautions:	Avoid inhaling of powder.		
Environmental precautions:	Prevent any spillage from entering the sewage system.		
Methods of cleaning up:	Pick up dry powder and dispose of as usual. Clean subsequently and prevent the development of dust.		

Material Safety Data Sheet

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

7. Handling and storage																															
<p>Handling: - Information about safe handling: - Information about protection against explosion and fire:</p> <p>Storage: - Information about storage: - Information about storage in one common storage facility: - Requirements for storage rooms:</p>	<p>The product is only for dental use. No special measures are required.</p> <p>No special measures are required.</p> <p>Store dry and tightly closed in original container.</p> <p>Not required.</p> <p>No special requirements.</p>																														
8. Exposure controls and personal protection																															
<p>Data on limiting values that require monitoring at the workplace:</p> <table border="1"> <thead> <tr> <th colspan="3">Ingredients with limiting values that require monitoring at the workplace</th> </tr> </thead> <tbody> <tr> <td>1314-13-2</td> <td>Zinc Oxide</td> <td>(EU-No.: 215-222-5)</td> </tr> <tr> <td>TLV</td> <td>1 A mg/m³</td> <td>smoke; DFG</td> </tr> <tr> <td>1309-48-4</td> <td>Magnesium Oxide</td> <td>(EU-No.: 215-171-9)</td> </tr> <tr> <td>TLV</td> <td>6 A mg/m³</td> <td>smoke; DFG</td> </tr> </tbody> </table> <p>Technical protective measures: not required. Notice: In normal use of product 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 materials 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.</p>		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 ³	smoke; DFG	1309-48-4	Magnesium Oxide	(EU-No.: 215-171-9)	TLV	6 A mg/m ³	smoke; DFG															
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 ³	smoke; DFG																													
1309-48-4	Magnesium Oxide	(EU-No.: 215-171-9)																													
TLV	6 A mg/m ³	smoke; DFG																													
9. Physical and chemical properties																															
<table border="1"> <thead> <tr> <th colspan="2">General information:</th> </tr> </thead> <tbody> <tr> <td>Form:</td> <td>Powder</td> </tr> <tr> <td>Colour:</td> <td>Whitish</td> </tr> <tr> <td>Odour:</td> <td>Odourless</td> </tr> <tr> <td colspan="2">Change in state</td> </tr> <tr> <td>Boiling point/boiling range:</td> <td>Not applicable</td> </tr> <tr> <td>Melting point/melting range:</td> <td>> 1.200 °C</td> </tr> <tr> <td>Flashpoint:</td> <td>Not applicable</td> </tr> <tr> <td>pH-value:</td> <td>Not applicable</td> </tr> <tr> <td>Autoflammability:</td> <td>Product does not self ignite</td> </tr> <tr> <td>Danger of explosion:</td> <td>Product is not explosive</td> </tr> <tr> <td>Bulk density:</td> <td>500 kg/m³</td> </tr> <tr> <td>Solubility in water:</td> <td>Insoluble</td> </tr> <tr> <td colspan="2">Solvent content:</td> </tr> <tr> <td>Organic solvents:</td> <td>0,0 %</td> </tr> </tbody> </table>		General information:		Form:	Powder	Colour:	Whitish	Odour:	Odourless	Change in state		Boiling point/boiling range:	Not applicable	Melting point/melting range:	> 1.200 °C	Flashpoint:	Not applicable	pH-value:	Not applicable	Autoflammability:	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 %
General information:																															
Form:	Powder																														
Colour:	Whitish																														
Odour:	Odourless																														
Change in state																															
Boiling point/boiling range:	Not applicable																														
Melting point/melting range:	> 1.200 °C																														
Flashpoint:	Not applicable																														
pH-value:	Not applicable																														
Autoflammability:	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 %																														

Material Safety Data Sheet

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

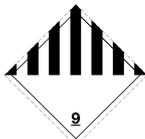
10. Stability and reactivity					
Conditions to be avoided:	No decomposition when used according to the regulation.				
Hazardous reactions:	No hazardous reactions are known.				
Hazardous decomposition products:	No hazardous decomposition products are known.				
11. Toxicological information					
Values given below refer to basic substance Zinc Oxide:					
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 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 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 waters.				
13. Disposal details					
	Product: Do not dispose of together with domestic waste. Prevent releasing into sewage system.				
	Uncleaned packaging: Dispose of in accordance with official regulations.				
<table border="1"><tr><td colspan="2">European Waste Catalogue</td></tr><tr><td>18 01 06</td><td>Chemicals containing or consisting of hazardous substances</td></tr></table>		European Waste Catalogue		18 01 06	Chemicals containing or consisting of hazardous substances
European Waste Catalogue					
18 01 06	Chemicals containing or consisting of hazardous substances				

Material Safety Data Sheet

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

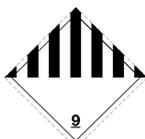
14. Transport information

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



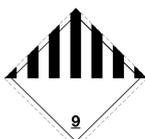
ADR/RID-GGVS/E class: 9 (M7) Miscellaneous hazardous substances and items
Kemler-Number: 90
UN-Number: UN3077 HAZARDOUS TO THE ENVIRONMENT
Packaging group: III
Hazard Label: 9
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
SOLID, N.O.S. (ZINC OXIDE)

Maritime transport IMDG/GGV sea:



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

Air transport ICAO-TI und IATA-DGR:



ICAO / IATA class: 9
UN/ID number: 3077
Label: 9
Packaging group: III
Correct technical 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

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:



N hazardous to 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.