


Material Safety Data Sheet

Acc. to 91/155/EEC adjustment acc. to Directive 2001/58/EC

Hoffmann Dental Manufaktur GmbH

Reviewed on: 16 December 2009

1. Identification of substance and manufacturer's name			
Product details/Trade name:			
			
HOFFMANN'S CARBOXYLATE CEMENT, POWDER			
Manufacturer/Supplier:			
Wangenheimstr. 37/39, D-14193 Berlin			
Telephone: ++49 (0) 30 / 85 10 27 3			
Fax: ++49 (0) 30 / 82 70 45 40			
Information department/Emergency information:			
Quality assurance department, telephone: ++49 (0) 30 / 85 10 27 52			
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	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.			
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 required.			

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6. Accidental release measures																
Person-related safety precautions:	Prevent 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 the development of dust.															
7. Handling and storage																
Handling: The product is only for dental use.																
- Information about safe handling:	No special measures are required.															
- Information about protection against explosion and fire:	No special measures are required.															
Storage:																
- Information about storage:	Store try and tightly closed in original container.															
- Information about storage in one common storage facility:	Is not required.															
- Requirements for storage rooms:	No special measures are required.															
8. Exposure controls and personal protection																
Data on limiting values that require monitoring at the workplace:																
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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																
<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> </tbody> </table>		General information:		Form:	Powder	Colour:	Whitish	Odour:	Odourless	Change in state						
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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/cm ³
Solubility in water:	Insoluble
Solvent content:	
Organic solvents:	0,0 %
10. Stability and reactivity	
Conditions to be avoided:	No decomposition when used according to the regulation.
Hazardous reactions:	No dangerous reactions 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:	Research on human: 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. Do not allow product to reach sewage system.
	Uncleaned packaging: Dispose of in accordance with official regulations.
European Waste Catalogue	
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):



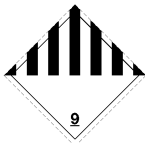
ADR/RID-GGVS/E class: 9 (M7) Miscellaneous hazardous substances and items
Kemler-Number: 90
UN-Number: 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE
Packaging group: III
Hazard label: 9
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC OXIDE)

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)

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15. 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 the waters), self-assessment.

16. 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