


Material Safety Data Sheet

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

Reviewed on 11 June 2012

1.	Identification of substance and manufacturer's name								
<p>Product details/Trade name:</p>  <p>HOFFMANN'S GUTTAPERCHA</p> <p>Manufacturer/Supplier: Wangenheimstr. 37/39, D-14193 Berlin Telephone +49 (0) 30 / 82 00 99 0 Fax +49 (0) 30 / 82 28 145</p> <p>Information department / Emergency information: Quality assurance department e-mail: sicherheit@hoffmann-dental.com</p>									
2.	Composition / Data on ingredients								
<p>Chemical characterization: Description: Mixture of below-mentioned substance with innocuous additions.</p> <table border="1"><tr><td colspan="4">Hazardous ingredients:</td></tr><tr><td>CAS: 1314-13-2 EINECS: 215-222-5</td><td>Zinc Oxide</td><td>Warning; H410 N; R 50/53</td><td>80 – 90 %</td></tr></table>		Hazardous ingredients:				CAS: 1314-13-2 EINECS: 215-222-5	Zinc Oxide	Warning; H410 N; R 50/53	80 – 90 %
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CAS: 1314-13-2 EINECS: 215-222-5	Zinc Oxide	Warning; H410 N; R 50/53	80 – 90 %						
3.	Hazard identification								
<p>Hazard designation: N Hazardous to environment.</p> <p>Special danger warning for human and environment: This product has to be labelled do to the calculation procedure of the „EU-Directive of the General Classification of the 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.</p> <p>Classification system: The classification is in compliance with the current EU-lists, but is also completed with details given by technical literature and company.</p>									
4.	First aid measures								
<p>- After inhaling: Not applicable, because of solid material. - After skin contact: Not applicable. - After eye contact: Not applicable. - After swallowing: (A plenty of substance) In case of feeling unwell consult a physician.</p>									
5.	Fire fighting measures								
<p>Suitable extinguishing agents: Adapt to the environment. Special protective equipment: Staying in dangerous area only with a self-contained breathing apparatus. Other information: Prevent any spillage of water for fire-fighting from entering surface or ground waters. No special measures are required.</p>									
6.	Accidental release measures								
<p>Person related safety precautions: Not required. Environmental precautions: Prevent any spillage from entering the sewage system. Methods of cleaning up: Pick up mechanically.</p>									


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7. Handling and storage																											
Handling: - Information about safe handling: - Information about protection against explosion and fire:	The product is only for dental use. No special measures are required. No special measures are required.																										
Storage: - Information about storage: - Information about storage in one common storage facility: - Requirements for storage rooms:	Store tightly closed and dry in original container. Not required. No special requirements.																										
8. Exposure control and personal protection																											
Data on limiting values that require monitoring at the workplace:																											
<table border="1"><tr><td colspan="3">Ingredients with limiting values that require monitoring at the workplace:</td></tr><tr><td>1314-13-2</td><td>Zinc Oxide</td><td>(EU-No.: 215-222-5)</td></tr><tr><td>TLV</td><td colspan="2">1 A mg/m³ smoke; DFG</td></tr></table>		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																		
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TLV	1 A mg/m ³ smoke; DFG																										
Technical protective measures: Notice: Personal protective equipment Respiratory protection:	Not required. When used according to regulations, no smoke containing zinc is released. 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 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.																										
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"><tr><td colspan="2">General information:</td></tr><tr><td>Form:</td><td>Solid</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>Softening point:</td><td>Approximately at 65 °C</td></tr><tr><td>Boiling point/boiling range:</td><td>Not determined</td></tr><tr><td>Flashpoint:</td><td>Not applicable</td></tr><tr><td>pH-value:</td><td>Not determined</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>Not applicable</td></tr><tr><td>Solubility in Water:</td><td>Insoluble</td></tr></table>		General information:		Form:	Solid	Colour:	Whitish	Odour:	Odourless	Change in state		Softening point:	Approximately at 65 °C	Boiling point/boiling range:	Not determined	Flashpoint:	Not applicable	pH-value:	Not determined	Autoflammability:	Product does not self-ignite	Danger of explosion:	Product is not explosive	Bulk density:	Not applicable	Solubility in Water:	Insoluble
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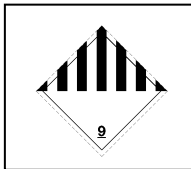
10.	Stability and reactivity
Conditions to be avoided:	No decomposition when used according to the regulation. Do not heat above 80 °C.
Hazardous reactions:	No hazardous reactions are known.
Hazardous decomposition products:	No hazardous decomposition products are known.
11.	Toxicological information
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 relating to the available information the product does not cause any noxious effects when used and handled according to regulations.	
12.	Ecological information
Referring to main substance: Biological decomposition: 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.

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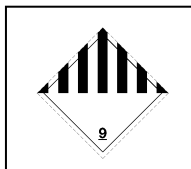
14. Transport information

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



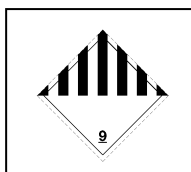
ADR/RID-GGVS/E class: 9 (M7) Miscellaneous hazardous substances and items
Kemler-Number: 90
UN-Number: 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE
Packaging group: III
Hazard label: 9
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC OXIDE)

Maritime transport IMDG/GGV 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
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15. Regulations according to GHS
<p>Signal word: WARNING Hazard pictogram:</p>  <p>Hazard Statements: H410: Very toxic to aquatic life with long lasting effects Precautionary Statements: P273: Avoid release to the environment</p>
16. Regulations
<p>Labelling according to EU-Directive: The product has been classified and labelled in accordance with EU-Directives / Ordinance on Hazardous Materials (GefStoffV).</p> <p>Labels:</p>  <p>N Hazardous to the environment</p> <p>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. 60-61 This material and its container are to dispose of as hazardous waste; prevent releasing into the environment.</p> <p>National regulations: Water hazard class: 2 (hazardous to waters), self-assessment.</p>
17. Other information
<p>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.</p> <p>Department issuing MSDS: Quality assurance department</p>