



according to (EC) No 1907/2006

Date of printing: 27-Oct-15

Page 1 of 6

Date of issue: 29.01.2015

**Hinrisil Hydro - component B - coloured**

**1. Identification of the Substance / Preparation and Company:**

Identification of the substance or preparation:

Commercial product name: Hinrisil Hydro – component B - coloured  
 Duplicating silicone  
 Company / Manufacturer: ERNST HINRICHS Dental GmbH  
 Borsigstr. 1  
 D - 38644 Goslar  
 0 53 21 / 5 06 24  
 0 53 21 / 5 08 81  
 info@hinrichs-dental.de / www.hinrichs-dental.de

**2. Hazards Identification:**

2.1. Classification of the substance or mixture: This product has been classified according to the current legislation as non-hazardous.

Classification according to Directive 67/543/EEC or 1999/45/EC in the amended version:

Xn; R48/20

Health Hazards:

Specific target organ toxicity - repeated exposure: Category 1 Causes damage to organs through prolonged or repeated exposure

Hazard summary

No specific recommendations.

Physical hazards:

Health hazards:

Eye contact:

Quartz: In Polymer embedded fibres do not cause a health risk if processed under normal service conditions. Although the product is classified according to EU-criteria, regarding article 23 and annex 1 (section 1.3.4.1) of the Directive no. 1272/2008 no labelling is required.

Skin Contact:

No specific symptoms noted.

Ingestion:

No specific symptoms noted.

Other Health Effects:

No other information noted.

Environmental hazards:

Not regarded as dangerous for the environment.

2.2 Label Elements:

Labelling for this product is not required according to EC Directives or to relevant national legislation.

2.3 Other hazards:

Chemical compounds which contain silica-hydrogen-compounds (Si-H).

**3. Composition / Information on Ingredients:**

3.1 Mixtures

General information: Mixture of polyorganosiloxanes, fillers, additives. No hazardous ingredients.

Chemical name	Concentration	CAS-No.	EC-No.	Reach Registration-No.	Note
Cristobalite	<=25%	14464-46-1	238-455-4		#

All concentrations are listed in weight per cent, if the substance is not a gas. Gas concentrations are listed as volume per cent.

# For this product there are exposure limits at the working place.

PBT: persistent, bioaccumulative and toxic substance.

vPvB: Very persistent and very bioaccumulative substance.

Classification:

Chemical name	Classification		Note
Cristobalite	DSD:	Xn; R48/20	
	CLP:	STOT RE 1; H372	



according to (EC) No 1907/2006  
Date of printing: 27-Oct-15

Page 2 of 6  
Date of issue: 29.01.2015

**Hinrisil Hydro - component B - coloured**

DSD: Directive 67/548/EEC  
CLP: Regulation No. 1272/2008  
The full text for all R- and H-phrases are listed in section 16.

**4. First aid measures:**

General:	Get medical attention if symptoms occur. Contaminated clothing to be placed in closed container until disposal or decontamination.
4.1 Description of first aid measures:	
Inhalation:	Not relevant.
Eye contact:	In the event of contact with the eyes, rinse thoroughly with clean water. Continue to rinse for at least 15 minutes.
Skin Contact:	Remove contaminated clothing and shoes. Wash with soap and water.
Ingestion:	Do not induce vomiting. Rinse mouth thoroughly.
Most important symptoms and effects, both acute and delayed:	None known.
Indication of any immediate medical attention and special treatment needed:	No specific recommendations.
Hazards:	
Treatment:	No specific recommendations.

**5. Fire Fighting measures:**

5.1 Extinguishing media	
Suitable extinguishing media:	Extinguish with foam, carbon dioxide or dry powder.
Unsuitable extinguishing media:	Do not use a water jet as this can spread the fire. Alkaline powdered extinguishing agents.
5.2 Special hazards arising from the substance or mixture:	For further information, refer to Section 10: "Stability and Reactivity".
5.3 Advice for firefighters:	
Special firefighting procedures:	Water spray should be used to cool containers.
Special protective equipment for firefighters:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire; thereby consider the risks arising from other involved materials.

**6. Accidental release measures:**

6.1 Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment. See Section 8 of the MSDS for Personal Protective Equipment. Keep away from alkali and bases. Eliminate ignition sources.
6.2 Environmental Precautions:	Collect spillage. Do not discharge into waterways, sewage water systems, basements or closed rooms.
6.3 Methods and material for containment and cleaning up:	Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Container must be kept tightly closed. Absorb with sand or other inert absorbent. To clean the floor and all objects contaminated by this material, use an appropriate solvent.(cf. : § 9) Flush area with plenty of water.
Notification Procedures:	Caution: Contaminated surfaces may be slippery. For waste disposal, see section 13 of the MSDS.

**7. Handling and Storage:**

7.1 Precautions for safe handling	In case vapours form while handling use a technical ventilation system. Do not mix with incompatible materials. For further information, refer to Section 10: "Stability and Reactivity". Please read and follow the instructions for use.
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according to (EC) No 1907/2006

Date of printing: 27-Oct-15

Page 3 of 6

Date of issue: 29.01.2015

**Hinrisil Hydro - component B - coloured**

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| 7.2 | Conditions for safe storage, including any incompatibilities: | Store in a cool, dry and well ventilated place. Protect against incompatible materials, open flames and high temperatures. Store in tightly sealed original containers with a degassing valve. Suitable containers: polyethylene. Plastic lined steel drum. |
| 7.3 | Specific end use(s):  | No data available.  |

**8. Exposure controls / Personal protection:**

- |     |  |   |
|-----|--|---|
| 8.1 | Control Parameters:<br>Occupational Exposure Limits:   | Quartz: In Polymer embedded fibres do not cause a health risk if processed under normal service conditions.   |
| 8.2 | Exposure controls:<br>Appropriate engineering controls:<br>Individual protection measures, such as personal protective equipment:<br>General information:<br>Eye/face protection:<br>Skin protection:<br>Hand Protection:<br>Other:<br><br>Respiratory Protection:<br>Hygiene measures:<br>Environmental Controls: | Avoid inhalation of vapours and mist.<br><br>No specific precautions.<br>Safety Glasses<br>Use protective gloves made of: Nitrile. Polyvinyl chloride (PVC). Rubber or plastic.<br>No skin protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.<br>No specific precautions.<br>Provide eyewash station and safety shower.<br>No data available. |

**9. Physical and chemical properties:**

- |     |  |  |
|-----|--|--|
| 9.1 | Information on basic physical and chemical properties<br>Physical state:<br>Colour:<br>Odour:<br>Odour threshold:<br>pH-Value:<br>Setting point:<br>Boiling Point:<br>Flash Point:<br>Evaporation Rate:<br>Flammability (solid, gas):<br>Flammability Limit - Upper (%)-:<br>Flammability Limit - Lower (%)-:<br>Vapour pressure:<br>Vapour density (air=1):<br>Relative density:<br>Solubility(ies):<br>Solubility in Water:<br>Solubility (other):<br><br>Partition coefficient (n-octanol/water):<br>Autoignition Temperature:<br>Decomposition Temperature:<br>Viscosity:<br>Explosive properties: | fluid<br>green<br>odourless<br>No data available.<br>Not applicable.<br>No data available.<br>No data available.<br>> 200 °C (Closed cup according to method ASTM D-56.)<br>No data available.<br>No data available.<br>< 0,1 hPa (20 °C)<br>No data available.<br>1,2 (20°C) approx.<br><br>Practically Insoluble<br>Diethylether: Miscible (in all proportions).<br>Chlorinated solvents: Miscible (in all proportions).<br>Aromatic hydrocarbons: Miscible (in all proportions).<br>Aliphatic hydrocarbons: Miscible (in all proportions).<br>Acetone: Very slightly soluble.<br>Ethanol: Very slightly soluble.<br>No data available.<br>> 400 °C<br>> 200 °C<br>5 000 mm <sup>2</sup> /s (20°C)<br>No data available. |
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according to (EC) No 1907/2006

Date of printing: 27-Oct-15

Page 4 of 6

Date of issue: 29.01.2015

**Hinrisil Hydro - component B - coloured**

Oxidizing properties: According to the data on the components not considered as oxidising. (evaluation by structure-activity relationship)

**10. Stability and Reactivity:**

<p>10.1 Reactivity: Chemical Stability: Possibility of Hazardous Reactions: Conditions to Avoid: Incompatible Materials:</p> <p>Hazardous Decomposition Products:</p>	<p>No further information available. Stable under normal conditions.</p> <p>This product can cause hydrogen gas. No other information noted. Releases an easily flammable gas (hydrogen), which cause a fire and explosion risk when contact with: Strong oxidizing agents. Alkalis and bases. Chemical compounds with mobile hydrogen in the presence of metal salts or metal complexes. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Amorphous silica. Potentially released amount of hydrogen (l/kg of the product): &lt;3</p>
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**11. Toxicological Information:**

<p>Information on likely routes of exposure Inhalation: Ingestion: Skin Contact: Eye contact:</p> <p>11.1 Information on toxicological effects: Acute Toxicity: Oral: Product: Dermal: Product: Inhalation: Product: Repeated Dose Toxicity: Product: Skin Corrosion/Irritation: Product: Serious Eye Damage/Eye Irritation: Product: Respiratory or Skin Sensitization: Product: Germ Cell Mutagenicity: In vitro: Product: In vivo: Product: Carcinogenicity: Product: Reproductive Toxicity: Product: Reproductive Toxicity (Fertility): Product: Developmental Toxicity (Teratogenicity):</p>	<p>No data available. No data available. No data available. No data available.</p> <p>No effects expected (assessment based on ingredients). Not classified for acute toxicity based on available data. No effects expected (assessment based on ingredients). Not classified for acute toxicity based on available data.</p> <p>No effects expected (assessment based on ingredients).</p> <p>No effects expected (assessment based on ingredients).</p> <p>No effects expected (assessment based on ingredients).</p> <p>No effects expected (assessment based on ingredients).</p> <p>No effects expected (assessment based on ingredients).</p> <p>No effects expected (assessment based on ingredients).</p> <p>No effects expected (assessment based on ingredients).</p> <p>No effects expected (assessment based on ingredients).</p> <p>No effects expected (assessment based on ingredients).</p> <p>No effects expected (assessment based on ingredients).</p> <p>No effects expected (assessment based on ingredients).</p> <p>No effects expected (assessment based on ingredients).</p> <p>No data available.</p> <p>No effects expected (assessment based on ingredients).</p> <p>No effects expected (assessment based on ingredients).</p> <p>No data available.</p> <p>No effects expected (assessment based on ingredients).</p> <p>No data available.</p>
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according to (EC) No 1907/2006  
Date of printing: 27-Oct-15

Page 5 of 6  
Date of issue: 29.01.2015

**Hinrisil Hydro - component B - coloured**

Product:	No data available.
Specific Target Organ Toxicity - Single Exposure:	
Product:	No effects expected (assessment based on ingredients).
Specific Target Organ Toxicity - Repeated Exposure:	
Product:	No effects expected (assessment based on ingredients).
Aspiration Hazard:	
Product:	No effects expected (assessment based on ingredients).
Other Adverse Effects:	None known.

**12. Ecological Information:**

12.1 Toxicity:	
Acute toxicity:	
Fish:	No effects expected (assessment based on ingredients).
Product:	
Aquatic Invertebrates:	No effects expected (assessment based on ingredients).
Product:	
Chronic Toxicity:	
Fish:	
Product:	No effects expected (assessment based on ingredients).
Aquatic Invertebrates:	
Product:	No effects expected (assessment based on ingredients).
Toxicity to Aquatic Plants:	
Product:	No effects expected (assessment based on ingredients).
12.2 Persistence and Degradability:	
Biodegradation:	
Product:	Not applicable
BOD/COD Ratio:	
Product:	No data available.
Specified substance(s):	No data available.
Quartz (SiO <sub>2</sub> )	No data available.
White mineral oil (petroleum)	No data available.
12.3 Bioaccumulative Potential:	
Product:	No data available.
12.4 Mobility in Soil:	No data available.
12.5 Results of PBT and vPvB assessment:	None Reported
12.6 Other Adverse Effects:	None known.

**13. Disposal Considerations:**

13.1 Waste treatment methods	
General information:	The user's attention is drawn to the possible existence of local regulations regarding disposal.
Disposal methods:	Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. Incinerate in suitable combustion chamber. Contaminated packages should be as empty as possible. Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. Recycle following cleaning or dispose of at an authorised site.

**14. Transport Information:**

This material is not subject to transport regulations.



according to (EC) No 1907/2006

Date of printing: 27-Oct-15

Page 6 of 6

Date of issue: 29.01.2015

**Hinrisil Hydro - component B - coloured**

Other information: Not a hazardous material with respect to transportation regulations.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

**15. Regulatory Information:**

15. Safety, health and environmental regulations/legislation specific for the substance or mixture

National Regulations:

Water Hazard Class (WGK): WGK 1: slightly water-endangering.

15.2 Chemical safety assessment: No data available.

**16. Other Information:**

Further Information:

The information is based on present level of our knowledge. It does not, however, assure product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations. The information given is based on data available for the material, the components of the material, and similar materials. The information is believed to be correct. It is given in good faith. This information should be used to make an independent determination of the methods to safeguard workers and the environment.

Revision Information: Not relevant.

Key abbreviations or acronyms used: No data available.

Key literature references and sources for data: No data available.

Wording of the R-phrases and H-statements in section 2 and 3:  
H372 Causes damage to organs through prolonged or repeated exposure.

R48/20 Harmful: Danger of serious damage to health by prolonged exposure through inhalation

Training information: No data available.

Inventory Status

Australia AICS: On or in compliance with the inventory

Canada DSL Inventory List: On or in compliance with the inventory

EU EINECS List: On or in compliance with the inventory

Japan (ENCS) List: On or in compliance with the inventory

China Inv. Existing Chemical Substances: On or in compliance with the inventory

Korea Existing Chemicals Inv. (KECI): Not in compliance with the inventory

Philippines PICCS: On or in compliance with the inventory

US TSCA Inventory: On or in compliance with the inventory

New Zealand Inventory of Chemicals: On or in compliance with the inventory