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1. Identification of the Substance / Preparation and Company:

Identification of the substance or preparation:

Commercial product name: Hinrisil Speed – 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.
 Hazard summary: No specific recommendations.
 Physical Hazards:
 Health Hazards: No specific symptoms noted.
 Inhalation:
 Eye contact: No specific symptoms noted.
 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 silicon-hydrogen-compounds (Si-H). This product can produce hydrogen gas. For further information, refer to Section 10: "Stability and Reactivity".

3. Composition / Information on Ingredients:

3.1 Mixtures
 General information: Mixture of organosilicon compound, additives.

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.



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| <p>5.2 Special hazards arising from the substance or mixture:</p> <p>5.3 Advice for firefighters:
Special firefighting procedures:
Special protective equipment for fire-fighters:</p> | <p>Do not use a water jet as this can spread the fire. Alkaline powdered extinguishing agents.</p> <p>This product can produce hydrogen gas. Vapours may form explosive mixture with air. For further information, refer to Section 10: "Stability and Reactivity".</p> <p>Water spray should be used to cool containers. Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Use the usual firefighting measures; thereby consider the risks arising from other involved materials.</p> |
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6. Accidental release measures:

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| <p>6.1 Personal precautions, protective equipment and emergency procedures:</p> <p>6.2 Environmental Precautions:</p> <p>6.3 Methods and material for containment and cleaning up:</p> <p>Notification Procedures:</p> | <p>Use personal protective equipment. See Section 8 of the MSDS for Personal Protective Equipment. Keep away from alkali and bases. Eliminate ignition sources.</p> <p>Collect spillage. Do not discharge into waterways, sewage water systems, basements or closed rooms. Ventilate contaminated area mechanically, whereon ensure that no explosive mixtures are formed with air.</p> <p>Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Suitable container: with a degassing valve. Pick up spilled material with sand or another inert absorbent material. Do not use a basic product. Clean floors and contaminated items with suitable solvents. (see § 9) Rinse area with plenty of water.</p> <p>Caution: Contaminated surfaces may be slippery. For waste disposal, see section 13 of the MSDS.</p> |
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7. Handling and Storage:

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| <p>7.1 Precautions for safe handling</p> <p>7.2 Conditions for safe storage, including any incompatibilities:</p> <p>7.3 Specific end use(s):</p> | <p>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.</p> <p>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.</p> <p>No data available.</p> |
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8. Exposure controls / Personal protection:

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| <p>8.1 Control Parameters:
Occupational Exposure Limits:</p> <p>8.2 Exposure controls:
Appropriate engineering controls:
Individual protection measures, such as personal protective equipment:
General information:
Eye/face protection:
Skin protection:
Hand Protection:
Other:</p> | <p>Exposure limits do not apply to the for any of the components</p> <p>Avoid inhalation of vapours and mist.</p> <p>In case of working with dust formation provide good ventilation.
Safety Glasses
Use protective gloves made of: Nitrile. Polyvinyl chloride (PVC). Rubber or plastic.
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.</p> |
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Respiratory Protection:	No specific precautions.
Hygiene measures:	Provide eyewash station and safety shower.
Environmental Controls:	No data available.

9. Physical and chemical properties:**9.1 Information on basic physical and chemical properties**

Physical state:	fluid
Colour:	yellow
Odour:	odourless
Odour threshold:	No data available.
pH-Value:	Not applicable.
Setting point:	Not applicable.
Boiling Point:	Not applicable.
Flash Point:	> 200 °C (Closed cup according to method ASTM D-56.)
Evaporation Rate:	No data available.
Flammability (solid, gas):	No data available.
Flammability Limit - Upper (%)-:	74 % (V) hydrogen
Flammability Limit - Lower (%)-:	4 % (V) hydrogen
Vapour pressure:	< 0,1 hPa (20 °C)
Vapour density (air=1):	No data available.
Relative density:	1,1 (20°C) approx.
Solubility(ies):	Practically Insoluble
Solubility in Water:	Diethylether: Miscible (in all proportions).
Solubility (other):	Chlorinated solvents: Miscible (in all proportions). Aromatic hydrocarbons: Miscible (in all proportions). Aliphatic hydrocarbons: Miscible (in all proportions). Acetone: Very slightly soluble. Ethanol: Very slightly soluble.
Partition coefficient (n-octanol/water):	No data available.
Autoignition Temperature:	> 400 °C
Decomposition Temperature:	> 200 °C
Viscosity:	4 100 mm ² /s (20°C)
Explosive properties:	No data available.
Oxidizing properties:	According to the data on the components Not considered as oxidising. (evaluation by structure-activity relationship)

10. Stability and Reactivity:

10.1 Reactivity:	No further information available.
Chemical Stability:	Stable under normal conditions.
Possibility of Hazardous Reactions:	This product can cause hydrogen gas.
Conditions to Avoid:	No other information noted.
Incompatible Materials:	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.
Hazardous Decomposition Products:	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): <7

11. Toxicological Information:

Information on likely routes of exposure	
Inhalation:	No effects expected (assessment based on ingredients).
Ingestion:	No effects expected (assessment based on ingredients).
Skin Contact:	No effects expected (assessment based on ingredients).



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11.1	Eye contact:	No effects expected (assessment based on ingredients).
	Information on toxicological effects:	
	Acute Toxicity:	
	Oral:	No effects expected (assessment based on ingredients).
	Product:	Not classified for acute toxicity based on available data
	Dermal:	No effects expected (assessment based on ingredients).
	Product:	Not classified for acute toxicity based on available data
	Inhalation:	
	Product:	No effects expected (assessment based on ingredients).
	Repeated Dose Toxicity:	
	Product:	No effects expected (assessment based on ingredients).
	Skin Corrosion/Irritation:	
	Product:	No effects expected (assessment based on ingredients).
	Serious Eye Damage/Eye Irritation:	
	Product:	No effects expected (assessment based on ingredients).
	Respiratory or Skin Sensitization:	
	Product:	No effects expected (assessment based on ingredients).
	Germ Cell Mutagenicity:	
	In vitro:	
	Product:	No effects expected (assessment based on ingredients).
	In vivo:	
	Product:	No effects expected (assessment based on ingredients).
	Carcinogenicity:	No effects expected (assessment based on ingredients).
	Product:	No data available.
	Reproductive Toxicity:	
	Product:	No effects expected (assessment based on ingredients).
	Reproductive Toxicity (Fertility):	
	Product:	No data available.
	Developmental Toxicity (Teratogenicity):	
	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).



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12.2	Toxicity to Aquatic Plants: Product:	No effects expected (assessment based on ingredients).
	Persistence and Degradability: Biodegradation: Product:	Not applicable
	BOD/COD Ratio: Product:	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. Don not mix this material with other wastes. Please use breathable packaging to achieve a pressure compensation in the waste bin. Contaminated packages should be as empty as possible and should have a degassing valve. 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. Other information:	For air transport a breathable packaging is prohibited.
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:	No data available.

EG-MATERIAL SAFETY DATA SHEET



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Training information:	No data available.
Inventory Status	
AICS:	Not in compliance with the inventory
DSL:	Not in compliance with the inventory
EU INV:	On or in compliance with the inventory
ENCS (JP):	On or in compliance with the inventory
IECSC:	On or in compliance with the inventory
KECI (KR):	Not in compliance with the inventory
PICCS (PH):	On or in compliance with the inventory
TSCA:	On or in compliance with the inventory