



According to regulation (EC) n° 1907/2006 Annex II
 Revision date: 29.11.2018 Version: 3.0

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Hinrisil - component B

1. Identification of the Substance / Preparation and Company:

- 1.1 Product identifier:
 Commercial product name: Hinrisil - component B
 Duplicating silicone
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:
 Identified uses: Moulding diverse objects.
 Uses advised against: None known.
- 1.3 Details of the supplier of the safety data sheet
 Manufacturer/Supplier: ERNST HINRICHS Dental GmbH
 Street / mailbox: Borsigstr. 1
 Country code. / postal code / city: D - 38644 Goslar
 Phone: 0 53 21 / 5 06 24
 Fax: 0 53 21 / 5 08 81
 E-mail / Website: info@hinrichs-dental.de / www.hinrichs-dental.de
- 1.4 Further information obtainable from: ERNST HINRICHS Dental GmbH
 Emergency telephone number
 ERNST HINRICHS Dental GmbH: +49 (0) 53 21 / 5 06 24 - 25 (Mon-Fri. 8 a.m. – 4 p.m.)

2. Hazards Identification:

- 2.1. Classification of the substance or mixture: The product has not been classified as hazardous according to the legislation in force.
 Classification according to Regulation (EC) No 1272/2008 as amended. Not classified
- 2.2 Label Elements: Not applicable
 Hazard summary:
 Physical Hazards: No specific recommendations.
 Health Hazards:
 Inhalation: No specific symptoms noted.
 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.
- 2.3 Other hazards: Chemical compounds containing silicon - hydrogen bonds (SiH). This product may generate hydrogen gas. For further information, refer to section 10: "Stability and Reactivity". Meets vPvB criteria.

3. Composition / Information on Ingredients:

3.2 Mixtures

General information:		Mixture of organosiloxanes, additives.				
Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
Dodecamethylcyclohexasiloxane	0,1 - <1%	540-97-6	208-762-8	01-2119517435-42-0002	No data available.	vPvB
Decamethylcyclopentasiloxane	0,1 - <1%	541-02-6	208-764-9	01-2119511367-43-0003	No data available.	vPvB

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

This substance has workplace exposure limit(s).

Chemical name	Classification	Notes
Decamethylcyclopentasiloxane	None known.	No data available.



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Dodecamethylcyclhexasiloxane	None known.	No data available.
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CLP: Regulation No. 1272/2008.

The full text for all H-statements is displayed 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.
 Skin Contact: Remove contaminated clothing and shoes. Wash with soap and water.
 Eye contact: In the event of contact with the eyes, rinse thoroughly with clean water. Continue to rinse for at least 15 minutes.

Ingestion: Do not induce vomiting. Rinse mouth thoroughly.

4.2 Most important symptoms and effects, both acute and delayed: None known.

4.3 Indication of any immediate medical attention and special treatment needed:
 Hazards: No specific recommendations.
 Treatment: No specific recommendations.

5. Fire Fighting measures:

General Fire Hazards: No specific recommendations.

5.1 Extinguishing media
 Suitable extinguishing media: Foam. Powder. Carbon dioxide (CO2).
 Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire. Alkaline powders.

5.2 Special hazards arising from the substance or mixture: This product may generate hydrogen gas. Vapors may form explosive mixtures with air. For further information, refer to section 10: "Stability and Reactivity".

5.3 Advice for firefighters: Water spray should be used to cool containers.

Special firefighting procedures:
 Special protective equipment for fire-fighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Use standard firefighting procedures and consider the hazards of other involved materials.

6. Accidental release measures:

6.1 Personal precautions, protective equipment and emergency procedures:
 For non-emergency personnel: Wear appropriate personal protective equipment. See Section 8 of the SDS for Personal Protective Equipment. Keep away from Alkalis and caustic products. Eliminate all sources of ignition.
 For emergency responders: No data available.

6.2 Environmental Precautions: Collect spillage. Prevent entry into waterways, sewer, basements or confined areas. Mechanically ventilate the spillage area to prevent the formation of explosive concentrations.

6.3 Methods and material for containment and cleaning up: Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Suitable containers: equipped with a degassing device. Absorb with sand or other inert absorbent. Do NOT use products which are basic. To clean the floor and all objects contaminated by this material, use an appropriate



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6.4 Reference to other sections: solvent. (cf. : § 9) Flush area with plenty of water. Caution: Contaminated surfaces may be slippery. For waste disposal, see Section 13 of the SDS.

7. Handling and Storage:

7.1 Precautions for safe handling Use mechanical ventilation in case of handling which causes formation of vapors. Do not mix with Incompatible materials. For further information, refer to section 10: "Stability and Reactivity". Read and follow manufacturer's recommendations.

7.2 Conditions for safe storage, including any incompatibilities: Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures. Store in tightly closed original container. Equipped with a degassing device. Suitable containers: polyethylene. Steel drums coated with epoxy-resin.

Storage Class: No data available.

7.3 Specific end use(s): No specific recommendations.

8. Exposure controls / Personal protection:

8.1 Control Parameters:
 Occupational Exposure Limits: None of the components have assigned exposure limits.

8.2 Exposure controls:
 Appropriate engineering controls: Avoid inhalation of vapours and spray mists.
 Individual protection measures, such as personal protective equipment:
 General information: Provide sufficient ventilation during operations which cause vapour formation.
 Eye/face protection: Safety Glasses
 Skin protection: Material: Nitrile.
 Hand Protection: Material: Polyvinyl chloride (PVC).
 Material: Rubber or plastic.
 Other: It is a good industrial hygiene practice to minimize skin contact. Wear suitable protective clothing.
 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: Liquid
 Form: Viscous
 Colour: Green
 Odour: Odourless
 Odour threshold: No data available.
 pH-Value: Not applicable.
 Freezing point: No data available.
 Boiling Point: No data available.
 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.
 Density: Approximate 1,05 kg/dm3 (20 °C)



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Solubility(ies):	Practically Insoluble
Solubility in Water:	Diethylether: Miscible (in all proportions).
Solubility (other):	Aliphatic hydrocarbons: Miscible (in all proportions).
	Aromatic hydrocarbons: Miscible (in all proportions).
	Chlorinated solvents: Miscible (in all proportions).
	Acetone: Very slightly soluble.
	Ethanol: Very slightly soluble.
Partition coefficient (n-octanol/water):	No data available.
Autoignition Temperature:	500 °C Hydrogen. > 400 °C
Decomposition Temperature:	> 200 °C
Viscosity:	4 500 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)
9.2 Other information:	No data available.

10. Stability and Reactivity:

10.1 Reactivity:	No other information noted.
10.2 Chemical Stability:	Material is stable under normal conditions.
10.3 Possibility of Hazardous Reactions:	This product may generate hydrogen gas.
10.4 Conditions to Avoid:	No other information noted.
10.5 Incompatible Materials:	A fire or explosion hazard arises because highly flammable gas (hydrogen) is released when it is in contact with: Strong oxidizing agents. Alkalis and caustic products. Chemical compounds with mobile hydrogen, in the presence of metal salts and complexes.
10.6 Hazardous Decomposition Products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors. Amorphous silica. Quantity of hydrogen potentially released (l/kg of product): <5

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).
Eye contact:	No effects expected (assessment based on ingredients).
11.1 Information on toxicological effects:	
Acute Toxicity:	
Oral:	
Product:	Not classified for acute toxicity based on available data.
Dermal:	
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).



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Specified substance(s):	
Decamethylcyclopentasiloxane:	Not a skin sensitizer.
Dodecamethylcyclohexasiloxane:	OECD 406 (Guinea Pig): Not a skin sensitizer.
Germ Cell Mutagenicity:	
In vitro:	
Product:	No effects expected (assessment based on ingredients).
In vivo:	
Product:	No effects expected (assessment based on ingredients).
Carcinogenicity:	
Product:	No effects expected (assessment based on ingredients).
Reproductive Toxicity:	
Product:	No effects expected (assessment based on ingredients).
Reproductive toxicity (Fertility):	
Product:	Composition/information on ingredients
Specified substance(s):	
Dodecamethylcyclohexasiloxane:	Reproduction/developmental toxicity screening test. Rat (Gavage (Oral)): NOAEL (parent): $\geq 1\ 000$ mg/kg NOAEL (F1): $\geq 1\ 000$ mg/kg NOAEL (F2): Method: OECD 422
Decamethylcyclopentasiloxane:	Fertility study 2 generations. Rat (Inhalation): NOAEL (parent): 3,64 mg/l NOAEL (F1): None. NOAEL (F2): None. Method: OECD 416
Developmental toxicity (Teratogenicity):	
Product:	Composition/information on ingredients
Specified substance(s):	
Dodecamethylcyclohexasiloxane:	Rabbit NOAEL (terato): $\geq 1\ 000$ mg/kg NOAEL (mater): $\geq 1\ 000$ mg/kg Method: OECD 414 Rat NOAEL (terato): $\geq 1\ 000$ mg/kg NOAEL (mater): $\geq 1\ 000$ mg/kg Method: OECD 414
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).

12. Ecological Information:

12.1 Toxicity:	
Acute toxicity:	
Fish:	
Product:	No data available.
Aquatic Invertebrates:	
Product:	No data available.
Chronic Toxicity:	
Fish:	
Product:	Composition/information on ingredients
Specified substance(s):	
Decamethylcyclopentasiloxane:	NOEC (Oncorhynchus mykiss, 90 d): $\geq 0,014$ mg/l
Aquatic Invertebrates:	
Product:	Composition/information on ingredients
Specified substance(s):	
Dodecamethylcyclohexasiloxane:	NOEC (Water flea (Daphnia magna), 21 d): $\geq 0,0046$ mg/l
Toxicity to Aquatic Plants:	
Product:	Composition/information on ingredients



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Specified substance(s): Dodecamethylcyclohexasiloxane:	NOEC (Algae (Pseudokirchneriella subcapitata), 72 h): >= 0,002 mg/l EC 50 (Algae (Pseudokirchneriella subcapitata), 72 h): > 0,002 mg/l
12.2 Persistence and Degradability: Biodegradation: Product: Specified substance(s): Dodecamethylcyclohexasiloxane: Decamethylcyclopentasiloxane: BOD/COD Ratio: Product:	Composition/information on ingredients 4,5 % (28 d, OECD 310) The product is not readily biodegradable. 0,14 % (28 d) The product is not readily biodegradable. No data available.
12.3 Bioaccumulative Potential: Product: Specified substance(s): Dodecamethylcyclohexasiloxane: Decamethylcyclopentasiloxane:	Composition/information on ingredients Fathead Minnow, Bioconcentration Factor (BCF): 2 860 (OECD 305) Has the potential to bioaccumulate. Fathead Minnow, Bioconcentration Factor (BCF): 7 060 No data available.
12.4 Mobility in Soil:	No data available.
12.5 Results of PBT and vPvB assessment: Decamethylcyclopentasiloxane Dodecamethylcyclohexasiloxane	Composition/information on ingredients Meets vPvB criteria REACH (1907/2006) Ax XIII Meets vPvB criteria REACH (1907/2006) Ax XIII
12.6 Other Adverse Effects:	None known.

13. Disposal Considerations:

13.1 Waste treatment methods General information: Disposal methods: Disposal instructions: Contaminated Packaging:	The user's attention is drawn to the possible existence of local regulations regarding disposal. Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. Waste of this material should not be mixed with other waste. Provide measures such as vented bungs to ensure pressure relief in the waste container. Contaminated packages should be as empty as possible and equipped with a degassing device. 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.
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14. Transport Information:

This material is not subject to transport regulations. Other information: 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:	Warning Packaging with a breathing/venting bung are FORBIDDEN for transport by air. Not applicable.
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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.
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<p>15.2 Chemical safety assessment:</p> <p>Inventory Status</p> <p>Australia AICS:</p> <p>Canada DSL Inventory List:</p> <p>EINECS, ELINCS or NLP:</p> <p>Japan (ENCS) List:</p> <p>China Inv. Existing Chemical Substances:</p> <p>Korea Existing Chemicals Inv. (KECI):</p> <p>Canada NDSL Inventory</p> <p>Philippines PICCS:</p> <p>US TSCA Inventory:</p> <p>New Zealand Inventory of Chemicals:</p>	<p>No Chemical Safety Assessment has been carried out.</p> <p>Not in compliance with the inventory.</p> <p>Not in compliance with the inventory.</p> <p>On or in compliance with the inventory</p> <p>Not in compliance with the inventory.</p> <p>On or in compliance with the inventory</p> <p>On or in compliance with the inventory</p> <p>On or in compliance with the inventory</p> <p>On or in compliance with the inventory</p> <p>On or in compliance with the inventory</p> <p>On or in compliance with the inventory</p> <p>On or in compliance with the inventory</p>
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16. Other Information:

<p>Revision Information:</p> <p>References</p> <p>PBT</p> <p>vPvB</p> <p>Key abbreviations or acronyms used:</p> <p>Key literature references and sources for data:</p> <p>Wording of H-statements in section 2 and 3:</p> <p>Training information:</p> <p>Disclaimer:</p> <p>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</p>	<p>Not relevant.</p> <p>PBT: persistent, bioaccumulative and toxic substance.</p> <p>vPvB: very persistent and very bioaccumulative substance.</p> <p>No data available.</p> <p>No data available.</p> <p>None</p> <p>No data available.</p>
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