



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](mailto:info@hinrichs-dental.de) / [www.hinrichs-dental.de](http://www.hinrichs-dental.de)  
**Importer:** Ivoclar Vivadent Ltd  
 12 Omega St, Rosedale, Auckland, New Zealand  
 Phone +64 9 914 9999 Fax +64 9 914 9990  
[www.ivoclarvivadent.co.nz](http://www.ivoclarvivadent.co.nz)
- 1.4 **Emergency phone number:** 0800 764 766 (National Poison Centre)  
 Poisons Hotline (24 hours / 7 days)

**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.
- 2.3 Other hazards: Environmental hazards: Not regarded as dangerous for the environment.  
 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:  
 Special firefighting procedures: Water spray should be used to cool containers.  
 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): Solubility in Water: Solubility (other):  Partition coefficient (n-octanol/water): Autoignition Temperature: Decomposition Temperature: Viscosity: Explosive properties: Oxidizing properties:	Practically Insoluble Diethylether: Miscible (in all proportions). 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. No data available. 500 °C Hydrogen. > 400 °C > 200 °C 4 500 mm <sup>2</sup> /s (20°C) No data available. According to the data on the components Not considered as oxidising. (evaluation by structure-activity relationship) No data available.
9.2 Other information:	No data available.

**10. Stability and Reactivity:**

10.1 Reactivity: 10.2 Chemical Stability: 10.3 Possibility of Hazardous Reactions: 10.4 Conditions to Avoid: 10.5 Incompatible Materials:  10.6 Hazardous Decomposition Products:	No other information noted. Material is stable under normal conditions. This product may generate hydrogen gas.  No other information noted. 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. 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
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**11. Toxicological Information:**

Information on likely routes of exposure Inhalation: Ingestion: Skin Contact: Eye contact: 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:	No effects expected (assessment based on ingredients). No effects expected (assessment based on ingredients). No effects expected (assessment based on ingredients). No effects expected (assessment based on ingredients).  Not classified for acute toxicity based on available data.  Not classified for acute toxicity based on available data.  No effects expected (assessment based on ingredients).  No effects expected (assessment based on ingredients).  No effects expected (assessment based on ingredients).  No effects expected (assessment based on ingredients).  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): >= 1 000 mg/kg NOAEL (F1):>= 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): >= 1 000 mg/kg NOAEL (mater): >= 1 000 mg/kg Method: OECD 414 Rat NOAEL (terato): >= 1 000 mg/kg NOAEL (mater): >= 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): >= 0,014 mg/l
Aquatic Invertebrates:	
Product:	Composition/information on ingredients
Specified substance(s):	
Dodecamethylcyclohexasiloxane:	NOEC (Water flea (Daphnia magna), 21 d): >= 0,0046 mg/l
Toxicity to Aquatic Plants:	
Product:	Composition/information on ingredients



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Specified substance(s): Dodecamethylcyclhexasiloxane:	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): Dodecamethylcyclhexasiloxane:  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): Dodecamethylcyclhexasiloxane:  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: 12.5 Results of PBT and vPvB assessment: Decamethylcyclopentasiloxane Dodecamethylcyclhexasiloxane	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 Classified as Hazardous according to the criteria of the National Occupational Health and Safety Commission (NOHSC) approved criteria for the classifying hazardous substances [NOHSC: 1008] 3rd edition. Standard for the Uniform Scheduling of Medicines and Poisons. Carcinogen classification under WHS Regulation 2011, Schedule 10. Notification status in accordance with section 3 and current national legislation.
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HSNO Approval: HSR003719  
 EPA NZ Classes of hazardous properties:  
 Classification 3.1D Flammable Liquids: low hazard

15.2	Chemical safety assessment:	No Chemical Safety Assessment has been carried out.
	Inventory Status	
	Australia AICS:	Not in compliance with the inventory.
	Canada DSL Inventory List:	Not in compliance with the inventory.
	EINECS, ELINCS or NLP:	On or in compliance with the inventory
	Japan (ENCS) List:	Not in compliance with the inventory.
	China Inv. Existing Chemical Substances:	On or in compliance with the inventory
	Korea Existing Chemicals Inv. (KECI):	On or in compliance with the inventory
	Canada NDSL Inventory	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

**16. Other Information:**

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