1. Identification of the Substance / Preparation and Company:

1.1 Product identifier:
Commercial product name: Hinrisil - component A
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
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

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.
Environmental hazards: Not regarded as dangerous for the environment.

2.3 Other hazards: 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
Decamethylcyclopentasiloxane	0,1 - <1%	541-02-6	208-764-9	01-2119511367-43-0003	No data available.	vPvB
Dodecamethylcyclohexasiloxane	0,1 - <1%	540-97-6	208-762-8	01-2119517435-42-0002	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.
Dodecamethylcyclohexasiloxane	None known.	No data available.

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:	Extinguish with foam, carbon dioxide or dry powder. Water spray.
	Unsuitable extinguishing media:	None known.
5.2	Special hazards arising from the substance or mixture:	None known. 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:	Use personal protective equipment. See Section 8 of the SDS for Personal Protective Equipment.
	For emergency responders:	No data available.
6.2	Environmental Precautions:	Collect spillage. Do not discharge into drains, water courses or onto the ground.
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. Incinerate in suitable combustion chamber.
6.4	Reference to other sections:	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:	No specific precautions.
7.2	Conditions for safe storage, including any incompatibilities:	No special storage precautions noted. Material is stable under normal conditions. Avoid contact with oxidizing

		agents. Suitable containers: polyethylene. Plastic lined steel drum.
	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:	No special precautions.
	Individual protection measures, such as personal protective equipment:	
	General information:	No specific precautions.
	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:	White
	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 (%)–:	
	Flammability Limit - Lower (%)–:	
	Vapour pressure:	< 0,1 hPa (20 °C)
	Vapour density (air=1):	No data available.
	Density:	Approximate 1,05 kg/dm3 (20 °C)
	Solubility(ies):	
	Solubility in Water:	Practically Insoluble
	Solubility (other):	Diethylether: Miscible (in all proportions). 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:	4 300 mm2/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:	Not relevant.
10.2	Chemical Stability:	Stable
10.3	Possibility of Hazardous Reactions:	No data available.
10.4	Conditions to Avoid:	No other information noted.
10.5	Incompatible Materials:	Strong oxidizing agents. Strong oxidizers, strong acids, and strong bases.
10.6	Hazardous Decomposition Products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Amorphous silica.

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:	Composition/information on ingredients
	Specified substance(s):	
	Decamethylcyclopentasiloxane:	LC 50 (Rat): 8,67 mg/l
	Repeated Dose Toxicity:	
	Product:	No data available.
	Specified substance(s):	
	Decamethylcyclopentasiloxane:	NOAEL (Rat, Oral): >= 1 000 mg/kg NOAEL (Rat, Inhalation - vapour): >= 2,42 mg/l NOAEL (Rat, Dermal): >= 1 600 mg/kg
	Dodecamethylcyclohexasiloxane:	NOAEL (Rat, Oral): >= 1 000 mg/kg Method: OECD 422 NOAEL (Rat, Inhalation - vapour): 0,0182 mg/l Method: OECD 413
	Skin Corrosion/Irritation:	
	Product:	Composition/information on ingredients
	Specified substance(s):	
	Decamethylcyclopentasiloxane:	Rabbit: Not irritating
	Dodecamethylcyclohexasiloxane:	OECD 404 (Rabbit): Not irritating
	Serious Eye Damage/Eye Irritation:	
	Product:	Composition/information on ingredients
	Specified substance(s):	
	Decamethylcyclopentasiloxane:	Rabbit : Not irritating
	Dodecamethylcyclohexasiloxane:	OECD 405 (Rabbit): Not irritating
	Respiratory or Skin Sensitization:	
	Product:	Composition/information on ingredients
	Specified substance(s):	
	Decamethylcyclopentasiloxane:	Not a skin sensitizer.
	Dodecamethylcyclohexasiloxane:	OECD 406 (Guinea Pig): Not a skin sensitizer.
	Germ Cell Mutagenicity:	

In vitro:	
Product:	Composition/information on ingredients
Specified substance(s):	
Decamethylcyclopentasiloxane:	Chromosomal aberration: No mutagenic components identified. Bacteria: No mutagenic components identified.
Dodecamethylcyclohexasiloxane:	Mouse lymphoma cells (OECD 476): negative with and without metabolic activation Bacteria (OECD 471): negative with and without metabolic activation
In vivo:	
Product:	No data available.
Specified substance(s):	
Decamethylcyclopentasiloxane:	No effects expected.
Dodecamethylcyclohexasiloxane:	Mammalian erythrocyte micronucleus test (OECD 474): No mutagenic effects.
Carcinogenicity:	
Product:	No data available.
Reproductive Toxicity:	
Product:	Composition/information on ingredients
Specified substance(s):	
Dodecamethylcyclohexasiloxane:	Based on available data, the classification criteria are not met.
Reproductive toxicity (Fertility):	
Product:	Composition/information on ingredients
Specified substance(s):	
Decamethylcyclopentasiloxane:	Fertility study 2 generations. Rat (Inhalation): NOAEL (parent): 3,64 mg/l NOAEL (F1):None. NOAEL (F2): None. Method: OECD 416
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
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 data available.
Specified substance(s):	
Dodecamethylcyclohexasiloxane:	Based on available data, the classification criteria are not met.
Specific Target Organ Toxicity - Repeated Exposure:	
Product:	No data available.
Specified substance(s):	
Dodecamethylcyclohexasiloxane:	Based on available data, the classification criteria are not met.
Aspiration Hazard:	
Product:	No data available.

12. Ecological Information:

12.1 Toxicity:

Acute toxicity:

Fish:

Product: No data available.

Aquatic Invertebrates:

Product: No data available.

Chronic Toxicity:

Fish:

Product: No data available.

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: Composition/information on ingredients

Product:

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: Composition/information on ingredients

Product:

Specified substance(s):

Decamethylcyclopentasiloxane: 0,14 % (28 d) The product is not readily biodegradable.

Dodecamethylcyclohexasiloxane: 4,5 % (28 d, OECD 310) The product is not readily biodegradable.

BOD/COD Ratio:

Product: No data available.

12.3 Bioaccumulative Potential:

Product: Composition/information on ingredients

Specified substance(s):

Decamethylcyclopentasiloxane: Fathead Minnow, Bioconcentration Factor (BCF): 7 060

Dodecamethylcyclohexasiloxane: Fathead Minnow, Bioconcentration Factor (BCF): 2 860 (OECD 305) Has the potential to bioaccumulate.

12.4 Mobility in Soil: No data available.

12.5 Results of PBT and vPvB assessment: Composition/information on ingredients

Decamethylcyclopentasiloxane	Meets vPvB criteria	REACH (1907/2006) Ax XIII
Dodecamethylcyclohexasiloxane	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: The user's attention is drawn to the possible existence of local regulations regarding disposal.

Disposal methods:

Disposal instructions: 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.

Contaminated Packaging: 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.

	Other information:	No special precautions.
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**

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.
HSNO Approval: HSR003719
EPA NZ Classes of hazardous properties:
Classification 3.1D Flammable Liquids: low hazard

16. Other Information:

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:

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