

Safety Data Sheets

Complies with Regulation (EC) No 1907/2006 (REACH), Annex II, amended according to Regulation (EU) No 2020/878

Silasto®-Glänzer

Article no.: No. 97408_A

Revised on: 14.05.2024

Version: 5.0 Replaced version: 4.0



SECTION 1: Identification of the substance or mixture and of the company/undertaking		
1.1	Product identifier	Silasto®-Glänzer Article no.: 97408_A
1.2	Relevant identified uses of the substance or mixture and uses which are not recommended	
1.2.1	Relevant uses medical device:	Silikon Elastomer (A)
1.2.2	Uses that are not recommended:	None known
1.3	Details of the supplier providing the safety data sheet	Dr. Hinz Dental Vertriebsgesellschaft mbH & Co. KG Friedrich der Große 64 44628 Herne GERMANY Phone: + 49 (0) 23 23 / 59 34 20 Fax : + 49 (0) 23 23 / 59 34 29 E-Mail: qm@dhug.de
1.4	Emergency number	Contact: Dr. P. Hinz Phone: + 49 17 51 83 41 34

SECTION 2: Possible dangers		
2.1	Classification of the substance or mixture	The product has not been classified as hazardous according to the legislation in force.
2.1.1	Classification according to (EC) Regulation 1272/2008 as amended.	Not classified
2.2	Labelling elements Additional information:	Not applicable No data available
2.3	Other dangers	Endocrine disrupting properties toxicity The substance/mixture does not contain any components that are classified as endocrine disruptors according to REACH Article 57(f) or the Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 of the Commission in quantities of 0.1% or more endocrine disrupting properties. exhibit endocrine disrupting properties. Endocrine disrupting properties-ecotoxicity. The substance/mixture does not contain any components that are endocrine disruptors according to REACH Article 57(f) or the Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 of the Commission in quantities of 0.1% or more endocrine disrupting properties. exhibit.

Safety Data Sheets

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SECTION 3: Composition / Information on ingredients

3.1	Chemical characterisation	Vinyl group-containing polydimethylsiloxane with platinum catalyst and inhibitors
3.1.1	Dangerous ingredients	No data available. Chemical name: Octamethylcyclotetrasiloxane Concentration: 0,01 - <0,1% CAS-N.: 556-67-2 EC No. 209-136-7 REACH Registration No. 01-2119529238-36-XXXX M-factor: Aquatic toxicity (chronic): 10 Indications: PBT, vPvB. All concentrations are given as percentages by weight if the ingredient is not a gas. Gas concentrations are given as volume percent. #Occupational exposure limits exist for this substance. PBT: Persistent, bioaccumulative and toxic substance. vPvB: Very persistent and very bioaccumulative substance. Classification Chemical name: Octamethylcyclotetrasiloxane Classification :Flam. Liq.: 3: H226; Repr.: 2: H361f; Aquatic Chronic: 1: H410; Indications: No data available.

Section 4: First aid measures

4.1	Description of the first aid measures	
	General notes	No action should be taken that involves personal risk or has not been adequately trained.
	Inhalation:	Remove to fresh air. Seek medical attention if symptoms occur.
	Eye contact:	Immediately flush eye with water. Seek medical attention if symptoms occur.
	Skin contact:	Wash with soap and water. Seek medical attention if symptoms occur.
	Ingestion:	Do NOT induce vomiting if swallowed. Administer a glass of water. Seek medical attention.
4.2	Most important symptoms and effects, both acute and delayed:	not known
4.3	Indications for immediate medical help or special treatment	
	Dangers:	This product is not expected to be harmful under normal use and proper personal hygiene.
	Treatment:	Do NOT induce vomiting if swallowed. Administer a glass of water.

SECTION 5: Fire-fighting measures

Safety Data Sheets

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Silasto®-Glänzer

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Revised on: 14.05.2024

Version: 5.0 Replaced version: 4.0



5.1	General fire hazards	Fire residues and contaminated extinguishing water must be disposed of in accordance with local official regulations.
	Extinguishing agent Suitable extinguishing media	All standard extinguishing agents suitable
	Unsuitable extinguishing media:	Avoid direct water jets; this will scatter and spread the fire.
5.2	Special hazards arising from the substance or mixture:	In case of fire, formation of carbon monoxide and carbon dioxide possible.
5.3	Advice for firefighters Advice for firefighters:	Keep away from sources of ignition - Do not smoke.
	Special protective equipment for fire fighting:	Wear self-contained breathing apparatus and protective clothing. Do not allow runoff from firefighting materials, even in diluted form, to reach bodies of water, sewers, or drinking water reservoirs. Use ordinary firefighting measures; consider hazards from other materials involved.

SECTION 6: Accidental release measures

6.1	Personal precautions, protective equipment and emergency procedures:	Remove all sources of ignition. Wear personal protective equipment.
6.2	Environmental protection measures:	Do not allow runoff to enter drains, waterways or soil.
6.3	Methods and material for retention and cleaning:	Wipe up spilled material and take to a safe place. Caution: Contaminated surfaces can be slippery.
6.4	Reference to other sections:	Caution: Contaminated surfaces may be slippery. Do not allow runoff to reach drains, sewers or bodies of water. For personal protective equipment, see section 8 of the SDS.

Safety Data Sheets

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Silasto®-Glänzer

Article no.: No. 97408_A

Revised on: 14.05.2024

Version: 5.0 Replaced version: 4.0



Section 7: Handling and storage:

7.1	Protective measures for safe handling:	The product may become electrostatically charged during decanting or decanting. Keep away from food, drink and animal feeding stuffs. Use only in well ventilated areas. Keep container tightly closed.
	Notes on fire and explosion protection:	Keep away from sources of ignition - Do not smoke. Store in the original container.
7.2	Conditions for safe storage taking into account incompatibilities:	Store the product in the original tightly closed container in a dry and cool place.
	Storage stability:	The material is stable under normal conditions.
	Storage class:	(TRGS 510): 12
7.3	Specific end uses:	There are no data available.

SECTION 8: Exposure controls/personal protective equipment

8.1	Parameters to be monitored Occupational exposure limit values	Occupational exposure limits do not apply to any of the ingredients.
	Biological limit values	None(s).
8.2	Exposure controls Suitable engineering controls:	Eye showers and emergency showers must be available in the workplace. Provide adequate general and local exhaust ventilation system.
	Individual protective measures, for example personal protective equipment	
	General information:	Eye wash bottle with pure water. Do not eat, drink or smoke while working. Wash hands after handling.
	Eye/face protection:	Safety goggles with side protection according to EN 166
	Skin protection Hand protection:	Note: There is no risk of contact with chemicals. Use hand protection to avoid mechanical injuries.
	Other:	Wear suitable protective clothing and safety goggles/face protection when working.
	Respiratory protection:	Under ordinary conditions of use and with adequate ventilation, protective clothing is not normally required.
	Hygiene measures:	Observe recognized industrial hygiene measures. Do not eat, drink or smoke while working. Maintain good personal hygiene. Thoroughly clean hands and contaminated work areas with soap and water before leaving the workplace. Avoid contact with skin and eyes.
Limitation and monitoring of environmental exposure:	There are no data available.	

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Silasto®-Glänzer

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Revised on: 14.05.2024

Version: 5.0 Replaced version: 4.0



SECTION 9: Physical and chemical properties

9.1	Information on the basic physical and chemical properties	
	Parameter	Value
	State of aggregation	liquid / Paste
	Colour	colorless
	Smell	Odorless
	Melting point/freezing point	There are no data available.
	Boiling point or initial boiling point and boiling range	> 300 °C
	Flammability	here are no data available.
	Lower explosion limit upper explosion limit	here are no data available.
	Flash point	> 100 °C
	Ignition temperature	here are no data available.
	Decomposition temperature	The material is stable under normal conditions.
	pH value	Not applicable
	Kinematic viscosity	here are no data available.
	Solubility	Löslichkeit in Wasser: Unlöslich Löslichkeit (andere): Löslich in Toluol
	Partition coefficient n-octanol/water (log value)	here are no data available.
	Vapour pressure	< 5 hPa (20 °C) (EG A4) < 15 hPa (50 °C) (EG A4)
	Density and/or specific gravity	1,13 g/cm ³ (20 °C)
Relative vapour density	here are no data available.	
Particle properties	here are no data available.	
9.2.	Other information here are no data available.	

SECTION 10: Stability and reactivity

10.1	Reactivity	No hazardous reaction when used as directed.
10.2	Chemical stability	The material is stable under normal conditions.
10.3	Possibility of hazardous reactions	Dangerous polymerization does not take place.
10.4	Conditions to avoid	Keep away from heat, sparks and open flame.
10.5	Incompatible materials	None known.

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Silasto®-Glänzer

Article no.: No. 97408_A

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10.6	Decomposition products	Carbon oxides Silicon oxides. Measurements at temperatures above 150 °C in the presence of air (oxygen) have shown that small amounts of formaldehyde are formed by oxidative degradation.
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SECTION 11: Toxicological data

11.1	Information on hazard classes within the meaning of Regulation (EC) No 1272/2008	
	acute toxicity	Our experience shows that our Silopren elastomer products can be handled without any health hazards if they are handled properly and in accordance with the usual working hygiene.
	Corrosive/irritant effect on the skin	ATEmix (estimated acute toxicity of the mixture): 126,315.79 mg/kg
	Serious eye damage/irritation	here are no data available.
	Sensitisation of the respiratory tract/skin	Not classified for acute toxicity based on available data.
	Germ cell mutagenicity	No data available. Specific substance(s) Octamethylcyclotetrasiloxane Ames test (OECD Guideline 471 (Genetic Toxicology: Salmonella typhimurium, Reverse Mutation Assay)): negative (not mutagenic) Mouse Lymphoma Test (OECD Guideline 476): negative (not mutagenic).
	Carcinogenicity	here are no data available.
	Reproductive toxicity	here are no data available.
	Specific target organ toxicity at single exposure	here are no data available.
	Specific target organ toxicity in case of repeated exposure	here are no data available.
	Aspiration hazard	here are no data available.
11.2	Information on other hazards	here are no data available.
11.2.1	Endocrine disrupting properties	The substance/mixture does not contain any components that are subject to REACH Article 57(f) or the Delegated Regulation (EU) 2017/2100 of the Commission or Commission Delegated Regulation (EU) 2018/605. Commission in quantities of 0.1% or more have endocrine disrupting Properties..;
11.2.2	Other information	here are no data available.

SECTION 12. Environmental information

12.1	Toxicity	Fish Product: No data available. Aquatic invertebrates Product: No data available.
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Safety Data Sheets

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Silasto®-Glänzer

Article no.: No. 97408_A

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		<p>Chronic toxicity</p> <p>Fish</p> <p>Product: No data available.</p> <p>Aquatic invertebrates</p> <p>Product: No data available.</p> <p>Toxicity to aquatic plants</p> <p>Product: No data available.</p>
12.2	Persistence and degradability	<p>Biodegradation</p> <p>Product: No data available.</p> <p>Specific substance(s): Octamethylcyclotetrasiloxane.</p> <p>(29 d, 310 Ready Biodegradability - CO₂ in Sealed Vessels (Headspace Test)): 3.7% Persistent Not readily biodegradable.</p> <p>BOD/COD ratio</p> <p>ProductNo data available.</p> <p>Specific substance(s): Octamethylcyclotetrasiloxane</p> <p>No data available.</p>
12.3	Bioaccumulative potential	<p>Product: No data available.</p> <p>Specific substance(s): Octamethylcyclotetrasiloxane</p> <p>Thick head minnow, Bioconcentration Factor (BCF): 12.40</p>
12.4	Mobility in soil	<p>No data available. Known or predicted distribution in environmental compartments.</p> <p>Octamethylcyclotetrasiloxane: No data are available.</p>
12.5	Results of the PBT and vPvB assessment	<p>No data available.</p> <p>Octamethylcyclotetrasiloxane: Persistent, Bioaccumulative and Toxic (PBT), Very Persistent and Very Bioaccumulative (vPvB)Octamethylcyclotetrasiloxane (D4) meets the current criteria of Annex XIII of the EU REACH Regulation for PBTs and vPvBs and has been placed on the Candidate List of Substances of Very High Concern (SVHCs)..However, our understanding of the state of the science is that D4 does not behave comparably to known PBT/vPvB substances. According to the silicone industry's interpretation of the available data, the scientific evidence derived from field trials essentially indicates that D4 is not biomagnifying in aquatic and terrestrial food chains. D4 in air</p>

Safety Data Sheets

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Silasto®-Glänzer

Article no.: No. 97408_A

Revised on: 14.05.2024

Version: 5.0 Replaced version: 4.0



		decomposes by processes naturally occurring in the atmosphere. Residues of D4 in air that do not decompose in this manner are not expected to be deposited from there in water, soil, or living organisms.
12.6	Endocrine disrupting properties	The substance/mixture does not contain any components that are subject to REACH Article 57(f) or the Delegated Regulation (EU) 2017/2100 of the Commission or Commission Delegated Regulation (EU) 2018/605. Commission in quantities of 0.1% or more have endocrine disrupting properties.
12.7	Other adverse effects	here are no data available. Ecotoxicological data on the product are not available.

SECTION 13: Disposal instructions

13.1	Waste treatment process	
	General information	Waste generation should be avoided or minimized whenever possible. See Section 8 for information regarding appropriate personal protective equipment. Do not allow to enter drains, waterways or soil.
	Disposal methods	Can be incinerated as long as it complies with local regulations.

SECTION 14: Transport information

14.1	ADR	Not dangerous goods
14.2	ADN	Not dangerous goods
14.3	RID	Not dangerous goods
14.4	IMDG	Not dangerous goods
14.5	IATA	Not dangerous goods
14.6	Special precautions for the user:	This product is not a dangerous good according to the currently valid national and international dangerous good regulations. Keep separate from food and beverages.
14.7	Carriage in bulk in accordance with Annex II of the MARPOL Convention and the IBC Code:	Not applicable

SECTION 15: Legislation

15.1	Safety, health and environmental regulations/specific legislation for the substance or mixture: EU regulations
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Safety Data Sheets

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Silasto®-Glänzer

Article no.: No. 97408_A

Revised on: 14.05.2024

Version: 5.0 Replaced version: 4.0



	Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex I, Controlled substances:	none
	Regulation (EU) 2019/1021 on persistent organic pollutants (new edition), as amended:	none
	Regulation (EC) No 649/2012 on the export and import of dangerous chemicals:	none
	Regulation (EC) No 1907/2006, REACH Annex XIV List of substances subject to authorisation, as amended:	none
	EU. REACH Candidate List of Substances of Very High Concern (SVHC) for authorisation:	none
	Regulation (EC) No 1907/2006 Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles :	none
	Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work...:	none
	Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding:	none
	Directive 2012/18/EU (Seveso III) on the control of major-accident hazards involving dangerous substances:	none
	REGULATION (EC) No 166/2006 concerning the establishment of a European Pollutant Release and Transfer Register, ANNEX II: Pollutants	none
	Directive 98/24/EU on the protection of workers from the risks related to chemical agents at work:	none
	National regulations	
	Water hazard class	Ordinance on Installations for Handling Substances Hazardous to Water (AwSV) WGK 1: slightly hazardous to water. Classification according to AwSV, Annex 1 (5.2)
	Reference to Technical Rules for Hazardous Substances (TRGS)	Technical Instructions on Air Quality Control (TA-Luft): Octamethylcyclotetrasiloxane Number 5.2.5 Class II, Organic substances
	VOC Directive (1999/13/EC) and the Decopaint Directive (2004/42/EC)	none
	Other regulations	none
15.2	Chemical safety assessment	No chemical safety assessment has been carried out.

Safety Data Sheets

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Silasto®-Glänzer

Article no.: No. 97408_A

Revised on: 14.05.2024

Version: 5.0 Replaced version: 4.0



SECTION 16: Other information

16.1	Information on the revision	Not relevant.
	Important literature references and data sources:	The partition coefficient of D4 between PDMS and water was determined as $\log K_{PDMS-water} = 7.09$. It follows that PDMS containing up to 3%w/w D4 produces a limiting thermodynamic concentration of 2.4 µg D4/L in the water phase. The critical 21d NOEC for daphnia of 7.9 µg D4/L is not reached. Therefore, the product is not classified for chronic aquatic toxicity.
	Training information:	There are no data available.
	Disclaimer:	<p>More information</p> <p>To the best of our knowledge, the information in this safety data sheet corresponds to our knowledge at the time of revision. The information is intended to provide guidance on the safe handling of the product specified in this safety data sheet during storage, processing, transportation and disposal. The information is not transferable to other products. Insofar as the product named in this safety data sheet is mixed, blended or processed with other materials, or is subjected to processing, the information in this safety data sheet cannot be transferred to the new material thus produced, unless expressly stated otherwise.</p>

Safety Data Sheets

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Silasto®-Glänzer

Article no.: No. 97408_B

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Version: 5.0 Replaced version: 4.0



SECTION 1: Identification of the substance or mixture and of the company/undertaking

1.1	Product identifier	Silasto®-Glänzer Article no.: 97408_B
1.2	Relevant identified uses of the substance or mixture and uses which are not recommended	
1.2.1	Relevant uses medical device:	Silikon Elastomer (B)
1.2.2	Uses that are not recommended:	None known
1.3	Details of the supplier providing the safety data sheet	Dr. Hinz Dental Vertriebsgesellschaft mbH & Co. KG Friedrich der Große 64 44628 Herne GERMANY Phone: + 49 (0) 23 23 / 59 34 20 Fax : + 49 (0) 23 23 / 59 34 29 E-Mail: qm@dhug.de
1.4	Emergency number	Contact: Dr. P. Hinz Phone: + 49 17 51 83 41 34

SECTION 2: Possible dangers

2.1	Classification of the substance or mixture The product has not been classified as hazardous according to the legislation in force.	
2.1.1	Classification according to (EC) Regulation 1272/2008 as amended. Not classified	
2.2	Labelling elements Additional information:	Not applicable No data available
2.3	Other dangers	There are no data available.

SECTION 3: Composition / Information on ingredients

3.1	Chemical characterisation	Vinyl group-containing polydimethylsiloxane with fillers, crosslinker and inhibitor.
3.1.1	Dangerous ingredients	Chemical name: Tetraethylsilicate Concentration: 1 - <5% CAS No.: 78-10-4 EC no. : 201-083-8

Safety Data Sheets

Complies with Regulation (EC) No 1907/2006 (REACH), Annex II, amended according to Regulation (EU) No 2020/878

Silasto®-Glänzer

Article no.: No. 97408_B

Revised on: 14.05.2024

Version: 5.0 Replaced version: 4.0



	<p>REACH Registration No : 01-2119496195-28-0002 M-factor : No data available. Notes # Chemical Name: Decamethylcyclopentasiloxane Concentration: 0.1 - <1% CAS No.: 541-02-6 EC no. : 208-764-9 REACH Registration No : 01-2119511367-43-0002 M-factor : No data available. Indications : vPvB</p> <p>Chemical name: Dodecamethylcyclohexasiloxane Concentration: 0.1 - <1% CAS No.: 540-97-6 EC no. : 208-762-8 REACH Registration No. : 01-2119517435-42-0001 M-factor : No data available. Indications : vPvB</p> <p>* All concentrations are expressed as percentages by weight if the ingredient is not a gas. Gas concentrations are given as volume percent. ## Occupational exposure limits exist for this substance. PBT: Persistent, bioaccumulative and toxic substance. vPvB: Very persistent and very bioaccumulative substance. Classification Chemical name: Tetraethylsilicate Classification: Flam. Liq.: 3: H226; Acute Tox.: 4: H332; Eye Irrit.: 2: H319; STOT SE: 3: H335; Remarks No data available. Chemical name: Decamethylcyclopentasiloxane Classification: No data available. Remarks No data available. Chemical name: Dodecamethylcyclohexasiloxane Classification: No data available. Remarks No data available.</p>
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Section 4: First aid measures

4.1	Description of the first aid measures	
	General notes	No action should be taken that involves personal risk or has not been adequately trained.
	Inhalation:	Remove to fresh air. Seek medical attention if symptoms occur.
	Eye contact:	Immediately flush eye with water. Seek medical attention if symptoms occur.
	Skin contact:	Wash the area with soap and water. Remove contaminated, soaked clothing. Seek medical attention if symptoms occur.
	Ingestion:	Do NOT induce vomiting if swallowed. Administer a glass of water. Seek medical attention.
4.2	Most important symptoms and effects, both acute and delayed:	not known
4.3	Indications for immediate medical help or special treatment	

Safety Data Sheets

Complies with Regulation (EC) No 1907/2006 (REACH), Annex II, amended according to Regulation (EU) No 2020/878

Silasto®-Glänzer

Article no.: No. 97408_B

Revised on: 14.05.2024

Version: 5.0 Replaced version: 4.0



Dangers:	This product is not expected to be harmful under normal use and proper personal hygiene.
Treatment:	Do NOT induce vomiting if swallowed. Administer a glass of water.

SECTION 5: Fire-fighting measures

5.1	General fire hazards	Do not allow runoff of fire extinguishing materials, even in diluted form, to reach water bodies, sewage system or drinking water reservoirs. In case of insufficient ventilation, put on breathing apparatus. Remove containers from the fire area as far as this is possible without danger.
	Extinguishing agent Suitable extinguishing media	Use water mist, alcohol-resistant foam, dry chemical or carbon dioxide (CO ₂) to extinguish flames.
	Unsuitable extinguishing media:	Avoid direct water jets; this will scatter and spread the fire.
5.2	Special hazards arising from the substance or mixture:	Cool containers exposed to fire with a water spray. In case of fire, carbon monoxide and carbon dioxide may be formed. Reacts with bases to liberate flammable gases.
5.3	Advice for firefighters Advice for firefighters:	Keep away from sources of ignition - Do not smoke.
	Special protective equipment for fire fighting:	Fire personnel must wear standard protective equipment, including flame retardant coats, helmets with face shields, gloves, rubber boots, and self-contained breathing apparatus in confined spaces.

SECTION 6: Accidental release measures

6.1	Personal precautions, protective equipment and emergency procedures:	Remove all sources of ignition. Wear personal protective equipment.
6.2	Environmental protection measures:	Do not allow runoff to enter drains, waterways or soil.
6.3	Methods and material for retention and cleaning:	Absorb with vermiculite, dry sand or soil and place in containers. Thoroughly clean surfaces to remove residual contamination. Caution: Contaminated surfaces may be slippery.
6.4	Reference to other sections:	Do not allow runoff to reach drains, sewers or bodies of water. Caution: Contaminated surfaces may be slippery.

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Section 7: Handling and storage:

7.1	Protective measures for safe handling:	Pack this product in unbreakable containers (no glass containers!) to avoid contact with the substances mentioned in chapter 10. Keep away from food, beverages and animal feed. Use only in well-ventilated areas. Do not eat, drink or smoke while working.
	Notes on fire and explosion protection:	Keep container tightly closed. Store in the original container. Keep away from heat and open flame.
7.2	Conditions for safe storage taking into account incompatibilities:	Store the product in the original tightly closed container in a dry and cool place. Keep away from water, acids, bases, amines, alcohols.
	Storage stability:	The material is stable under normal conditions.
	Storage class:	Class 10: Flammable liquids
7.3	Specific end uses:	There are no data available.

SECTION 8: Exposure controls/personal protective equipment

8.1	Parameters to be monitored Occupational exposure limit values	Chemical name: Tetraethyl silicate - inhalable fraction. Type: MAK Exposure limits: 10 ppm 86 mg/m ³ Source: Germany. DFG-MAK list (recommended occupational exposure limits). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG) (2014) Chemical name: Tetraethylsilicate Type: TWA Exposure limits: 5 ppm 44 mg/m ³ Source: EU. Indicative exposure limit values in Directive 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EC (02 2017) Type: TWA exposure limit values: 5 ppm 44 mg/m ³ Source:EU. Scientific Committee for Occupational Exposure Limits (SCOEL), European Commission, SCOEL (2014) Type: AGW exposure limits: 1.4 ppm 12 mg/m ³ Source:Germany. TRGS 900, Occupational air exposure limits (03 2015).
	Biological limit values	None(s). DNEL values Critical Component: Tetraethylsilicate Type: Worker Exposure Route: Skin contact 12.1 mg/kg bw/day Inhalation 85 mg/m ³ Skin contact : 12.1 mg/kg bw/day Inhalation: 85 mg/m ³ Type: Consumer Exposure Route: Skin Contact 8.4 mg/kg bw/day Inhalation: 25 mg/m ³ Skin Contact: 8.4 mg/kg bw/day Inhalation: 25 mg/m ³ PNEC Values Critical Component: tetraethyl silicate Environmental Compartment: Water 0.192 mg/l Seawater 0.0192 mg/l Periodic Release 10 mg/l Sediment : 0.18 mg/kg

Safety Data Sheets

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Silasto®-Glänzer

Article no.: No. 97408_B

Revised on: 14.05.2024

Version: 5.0 Replaced version: 4.0



		Remarks: Derived from PNEC (fresh water) using equilibrium partition coefficient method soil 0.05 mg/kg. Derived from PNEC (fresh water) by equilibrium partition coefficient method wastewater treatment plant 4000 mg/l
8.2	Exposure controls Suitable engineering controls:	No special requirements under normal conditions of use and with adequate ventilation. Eye wash bottle with pure water.
	Individual protective measures, for example personal protective equipment	
	General information:	Eye wash bottle with pure water. Do not eat, drink or smoke when handling the product. Wash hands after handling. Avoid contact with skin and eyes.
	Eye/face protection:	Safety goggles with side protection according to EN 169
	Skin protection Hand protection:	Note: There is no risk of contact with chemicals. Use hand protection to avoid mechanical injuries.
	Other:	Before handling this product, personal protective equipment should be selected based on the task to be performed and the risks involved, and approved by a specialist.
	Respiratory protection:	Under ordinary conditions of use and with adequate ventilation, protective clothing is not normally required.
	Hygiene measures:	Avoid contact with skin and eyes. Observe recognized industrial hygiene measures. Do not eat, drink or smoke while working. Wash hands after handling.
	Limitation and monitoring of environmental exposure:	There are no data available.

SECTION 9: Physical and chemical properties

9.1	Information on the basic physical and chemical properties	
	Parameter	Value
	State of aggregation	liquid / liquid
	Colour	colorless
	Smell	Weak
	Melting point/freezing point	There are no data available.
	Boiling point or initial boiling point and boiling range	here are no data available.
	Flammability	here are no data available.
	Lower explosion limit upper explosion limit	here are no data available.
	Flash point	200 °C
	Ignition temperature	here are no data available.
	Decomposition temperature	The material is stable under normal conditions.
	pH value	here are no data available.
	Kinematic viscosity	Viscosity, dynamic: 30,000 mPa-s (23 °C) Viscosity, kinematic: No data available.

Safety Data Sheets

Complies with Regulation (EC) No 1907/2006 (REACH), Annex II, amended according to Regulation (EU) No 2020/878

Silasto®-Glänzer

Article no.: No. 97408_B

Revised on: 14.05.2024

Version: 5.0 Replaced version: 4.0



	Solubility	here are no data available.
	Partition coefficient n-octanol/water (log value)	here are no data available.
	Vapour pressure	here are no data available.
	Density and/or specific gravity	1,05 g/cm ³
	Relative vapour density	here are no data available.
	Particle properties	here are no data available.
9.2.	Other information here are no data available.	

SECTION 10: Stability and reactivity

10.1	Reactivity	here are no data available.
10.2	Chemical stability	The material is stable under normal conditions.
10.3	Possibility of hazardous reactions	Dangerous polymerization does not take place.
10.4	Conditions to avoid	Product generates a flammable gas in contact with acids, bases or oxidizing substances. Protect from heat. Keep away from moisture.
10.5	Incompatible materials	Hydrogen evolution with acids, alkalis, alcohols, powdered metals or metal oxides.
10.6	Decomposition products	Carbon oxides Silicon oxides. Measurements at temperatures above 150 °C in the presence of air (oxygen) have shown that small amounts of formaldehyde are formed by oxidative degradation.

Safety Data Sheets

Complies with Regulation (EC) No 1907/2006 (REACH), Annex II, amended according to Regulation (EU) No 2020/878

Silasto®-Glänzer
Article no.: No. 97408_B

Revised on: 14.05.2024
Version: 5.0 Replaced version: 4.0



SECTION 11: Toxicological data

11.1

Information on hazard classes within the meaning of Regulation (EC) No 1272/2008

acute toxicity

Ingestion Product: Not classified for acute toxicity based on available data. Specific substance(s): Tetraethyl silicate No data available. Decamethylcyclopentasiloxane No data available. Dodecamethylcyclohexasiloxane

LD 50 (rat): 2,000 mg/kg

Skin contact

Product:

Not classified for acute toxicity based on available data. Specific substance(s) Tetraethylsilicate No data available. Decamethylcyclopentasiloxane LD 50 (rabbit): > 2,000 mg/kg Dodecamethylcyclohexasiloxane LD 50 (rat): 2,000 mg/kg Inhalation Product: ATEmix (estimated acute toxicity of mixture)221.86 mg/l Vapor

ATEmix (estimated acute toxicity of mixture)30.25 mg/l Dust, mist and fume Specific substance(s): tetraethyl silicate No data available.

Decamethylcyclopentasiloxane: LC50 (rat, 4 h): 8.67 mg/l

Dodecamethylcyclohexasiloxane: No data available.

Repeated dose toxicity

Product: No data available. Specific substance(s): Tetraethyl silicate

NOAEL (no observable adverse effect level) (rat(male and female), ingestion, 28 d): 10 - 50 mg/kg

LOAEL (lowest dose with observable adverse effect) (mouse(male), inhalation, 28 d): 50 mg/kg

Decamethylcyclopentasiloxane

NOAEL (Dose with no observable adverse effect) (rat(male and female), ingestion, 90 d): 1,000 mg/kg

NOAEL (dose with no observable adverse effect) (rat(male and female), skin contact, 28 d): 1,600 mg/kg

NOAEC (rat(male and female), inhalation - vapor, 2 a): 160 ppm

Dodecamethylcyclohexasiloxane

NOAEL (dose with no observable adverse effect) (rat(male and female), ingestion): 1,000 mg/kg

Safety Data Sheets

Complies with Regulation (EC) No 1907/2006 (REACH), Annex II, amended according to Regulation (EU) No 2020/878

Silasto®-Glänzer

Article no.: No. 97408_B

Revised on: 14.05.2024

Version: 5.0 Replaced version: 4.0



	Corrosive/irritant effect on the skin	<p>Product: No data available. Specific substance(s) Tetraethylsilicate OECD Test Guideline 404 (Rabbit): Non-irritant Decamethylcyclopentasiloxane OECD Test Guideline 404 (Rabbit, 72 h): Non-irritant Dodecamethylcyclohexasiloxane OECD Guideline 404 (Acute Dermal Irritation/Corrosion) (Rabbit, 72 h): No skin irritation.</p>
	Serious eye damage/irritation	<p>Product: No data available.</p> <p>Specific substance(s): Tetraethyl silicate</p> <p>OECD- Test guideline 405 (Rabbit, 72 h): Non-irritant</p> <p>Decamethylcyclopentasiloxane OECD Test Guideline 405 (Rabbit, 72 h): Non-irritant</p> <p>Dodecamethylcyclohexasiloxane</p> <p>OECD Guideline 405 (Acute Eye Irritation/Corrosion) (Rabbit, 72 h): No eye irritation Non-irritant</p>
	Sensitisation of the respiratory tract/skin	<p>Product: No data available. Specific substance(s): Tetraethyl silicate OECD- Test guideline 405 (Rabbit, 72 h): Non-irritant Decamethylcyclopentasiloxane OECD Test Guideline 405 (Rabbit, 72 h): Non-irritant Dodecamethylcyclohexasiloxane OECD Guideline 405 (Acute Eye Irritation/Corrosion) (Rabbit, 72 h): No eye irritation Non-irritant</p>
	Germ cell mutagenicity	<p>In vitro</p> <p>Product: No data available.</p> <p>Specific substance(s): Tetraethylsilicate</p> <p>In Chinese hamster ovum (CHO) (OECD 476): negative</p> <p>Chromosomal aberration (OECD 473): negative</p> <p>Decamethylcyclopentasiloxane</p> <p>Ames test (OECD Guideline 471 (Genetic Toxicology: Salmonella typhimurium, Reverse Mutation Assay)): negative (non-mutagenic)</p> <p>Mammalian cytogenetic test (Mouse Lymphoma Test (OECD Guideline 476)): negative (not mutagenic)</p> <p>Chromosomal aberration (OECD 473): negative (not mutagenic)</p> <p>Dodecamethylcyclohexasiloxane</p> <p>Ames test (OECD Guideline 471 (Genetic Toxicology: Salmonella typhimurium, Reverse Mutation Assay)): negative</p>

Safety Data Sheets

Complies with Regulation (EC) No 1907/2006 (REACH), Annex II, amended according to Regulation (EU) No 2020/878

Silasto®-Glänzer

Article no.: No. 97408_B

Revised on: 14.05.2024

Version: 5.0 Replaced version: 4.0



		In vivo Product: No data available. Specific substance(s): Tetraethylsilicate No data available. Decamethylcyclopentasiloxane (OECD Guideline 474 (Genetic Toxicology: Micronucleus Test)) Inhalation (rat, male and female)negative (not mutagenic) Vapor Dodecamethylcyclohexasiloxane OECD Guideline 474 (Genetic Toxicology: Micronucleus Test) (OECD Guideline 474 (Genetic Toxicology: Micronucleus
	Carcinogenicity	here are no data available.
	Reproductive toxicity	here are no data available.
	Specific target organ toxicity at single exposure	here are no data available.
	Specific target organ toxicity in case of repeated exposure	here are no data available.
	Aspiration hazard	here are no data available.
11.2	Information on other hazards	here are no data available.
11.2.1	Endocrine disrupting properties	here are no data available.
11.2.2	Other information	here are no data available.

SECTION 12. Environmental information

12.1	Toxicity	Fish Product: No data available. Specific substance(s): Tetraethyl silicate LC50 (Brachydanio rerio, 96 h): > 245 mg/l (Tested according to 92/69/EEC.) Decamethylcyclopentasiloxane LC50 (Oncorhynchus mykiss, 96 h): > 0.0016 mg/l (OECD Guideline 204) Dodecamethylcyclohexasiloxane:No data available.
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Safety Data Sheets

Complies with Regulation (EC) No 1907/2006 (REACH), Annex II, amended according to Regulation (EU) No 2020/878

Silasto®-Glänzer

Article no.: No. 97408_B

Revised on: 14.05.2024

Version: 5.0 Replaced version: 4.0



		<p>Aquatic invertebrates</p> <p>Product: No data available.</p> <p>Specific substance(s): Tetraethyl silicate</p> <p>EC50 (Daphnia magna, 48 h): > 75 mg/l (OECD Guideline 202)</p> <p>Decamethylcyclopentasiloxane</p> <p>EC50 (Daphnia magna, 48 h): > 0.0029 mg/l (OECD Test Guideline 202)</p> <p>Dodecamethylcyclohexasiloxane: No data available.</p> <p>Chronic toxicity</p> <p>Fish</p> <p>Product: No data available.</p> <p>Specific substance(s): Tetraethyl silicate No data available.</p> <p>Decamethylcyclopentasiloxane</p> <p>NOEC (Oncorhynchus mykiss, 90 d): >= 0.0014 mg/l (OECD Guideline 210)</p> <p>LOEC (Oncorhynchus mykiss, 90 d): > 0.0014 mg/l (OECD Guideline 210)</p> <p>Dodecamethylcyclohexasiloxane</p> <p>NOEC (Pimephales promelas, 49 d): 0.0044 mg/l</p> <p>Aquatic invertebrates</p> <p>Product: No data available.</p> <p>Specific substance(s): Tetraethylsilicate</p> <p>No data available.</p> <p>Decamethylcyclopentasiloxane</p> <p>NOEC (Daphnia magna, 21 d): >= 0.0015 mg/l (OECD Guideline 211)</p> <p>LOEC (Daphnia magna, 21 d): > 0.0015 mg/l</p>
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Safety Data Sheets

Complies with Regulation (EC) No 1907/2006 (REACH), Annex II, amended according to Regulation (EU) No 2020/878

Silasto®-Glänzer

Article no.: No. 97408_B

Revised on: 14.05.2024

Version: 5.0 Replaced version: 4.0



		<p>Dodecamethylcyclohexasiloxane</p> <p>NOEC (Daphnia magna, 21 d): 0.0046 mg/l</p> <p>EC50 (Sediment / Invertebrates, 28 d): > 420 mg/l</p> <p>LOEC (Sediment / Invertebrates, 28 d): >= 420 mg/l</p> <p>Toxicity to aquatic plants</p> <p>Product: No data available.</p> <p>Specific substance(s): Tetraethyl silicate</p> <p>EC50 (Algae (Pseudokirchneriella subcapitata), 72 h): > 100 mg/l (OECD Test Guideline 201).</p> <p>Decamethylcyclopentasiloxane</p> <p>EC50 (Algae (Pseudokirchneriella subcapitata), 96 h): > 0.0012 mg/l (OECD Test Guideline 201)</p> <p>NOEC : >= 0.0012 mg/l</p> <p>EC10 : > 0.0012 mg/l</p> <p>Dodecamethylcyclohexasiloxane</p> <p>EC50 (algae (Pseudokirchneriella subcapitata), 72 h): > 0.002 mg/l (OECD Test Guideline 201)</p> <p>NOEC (Algae (Pseudokirchneriella subcapitata), 72 h): >= 0.002 mg/l (OECD Test Guideline 201)</p>
12.2	Persistence and degradability	<p>Biodegradation</p> <p>Product: No data available.</p> <p>Specific substance(s): Tetraethylsilicate</p> <p>Activated sludge, municipal (adaptation not specified) (28 d, OECD Guideline 301 A (DOC Die-Away Test)): 98 % Readily biodegradable</p> <p>Decamethylcyclopentasiloxane</p> <p>Activated sludge (adaptation not stated) (28 d, OECD- Test Guideline 310): 0.14 % The product is not readily biodegradable.</p>

Safety Data Sheets

Complies with Regulation (EC) No 1907/2006 (REACH), Annex II, amended according to Regulation (EU) No 2020/878

Silasto®-Glänzer
Article no.: No. 97408_B

Revised on: 14.05.2024
 Version: 5.0 Replaced version: 4.0



		<p>Dodecamethylcyclohexasiloxane: No data available.</p> <p>BOD/COD ratio</p> <p>Product: No data available.</p> <p>Specific substance(s): Tetraethylsilicate: No data available.</p> <p>Decamethylcyclopentasiloxane: No data are available.</p> <p>Dodecamethylcyclohexasiloxane: No data available.</p>
12.3	Bioaccumulative potential	<p>Product: No data available.</p> <p>Specific substance(s): Tetraethyl silicate</p> <p>No data available.</p> <p>Decamethylcyclopentasiloxane</p> <p>Thick head minnow, Bioconcentration Factor (BCF): 7,060 (OECD Test Guideline 305)</p> <p>Dodecamethylcyclohexasiloxane: No data available.</p>
12.4	Mobility in soil	<p>here are no data available.</p>
12.5	Results of the PBT and vPvB assessment	<p>vPvB: Very persistent and very bioaccumulative substance.</p> <p>Tetraethyl silicate: No data available.</p> <p>Decamethylcyclopentasiloxane</p> <p>vPvB: Very persistent and very bioaccumulative substance.</p> <p>Decamethylcyclotetrasiloxane (D5) meets the current criteria of Annex XIII of the EU REACH Regulation for vPvB and has been placed on the Candidate List of Substances of Very High Concern (SVHCs), However, according to our understanding of the state of the science, D5 does not behave in a comparable way to the known PBT/vPvB substances. According to the silicone industry's interpretation of the available data, the scientific evidence derived from field trials essentially does not indicate that D5 is non-biomagnifying in aquatic and terrestrial food chains. D5 in air decomposes by processes naturally occurring in the atmosphere. Residues of D5 in air that do not decompose by these means are not expected to be deposited from there in water, soil, or living organisms.</p> <p>Dodecamethylcyclohexasiloxane</p> <p>vPvB: Very persistent and very bioaccumulative substance.</p> <p>Dodecamethylcyclohexasiloxane (D6) meets the current criteria of Annex XIII of the EU REACH Regulation for vPvB and has been placed on the Candidate</p>

Safety Data Sheets

Complies with Regulation (EC) No 1907/2006 (REACH), Annex II, amended according to Regulation (EU) No 2020/878

Silasto®-Glänzer

Article no.: No. 97408_B

Revised on: 14.05.2024

Version: 5.0 Replaced version: 4.0



		List of Substances of Very High Concern (SVHCs).,However, our understanding of the state of the science is that D6 does not behave comparably to known PBT/vPvB substances. According to the silicone industry's interpretation of the available data, the scientific evidence derived from field trials essentially does not indicate that D6 is non-biomagnifying in aquatic and terrestrial food chains. D6 in air decomposes by processes naturally occurring in the atmosphere. Residues of D5 in air that do not decompose in this manner are not expected to be deposited from there in water, soil, or living organisms.
12.6	Endocrine disrupting properties	here are no data available.
12.7	Other adverse effects	here are no data available.

SECTION 13: Disposal instructions

13.1	Waste treatment process	
	General information	Waste generation should be avoided or minimized whenever possible. See Section 8 for information regarding appropriate personal protective equipment. Do not allow to enter drains, waterways or soil.
	Disposal methods	Can be incinerated as long as it complies with local regulations.

SECTION 14: Transport information

14.1	ADR	Not dangerous goods
14.2	ADN	Not dangerous goods
14.3	RID	This product is not subject to prohibition for transportation by air under national or international dangerous goods regulations. Due to the possible formation of hydrogen under certain conditions, Momentive Performance Materials recommends transporting this product by modes other than air (IATA-C, IATA-P). Keep separate from food and beverages.
14.4	IMDG	Not dangerous goods
14.5	IATA	Not dangerous goods
14.6	Special precautions for the user:	Not dangerous goods
14.7	Carriage in bulk in accordance with Annex II of the MARPOL Convention and the IBC Code:	Not applicable

SECTION 15: Legislation

15.1	Safety, health and environmental regulations/specific legislation for the substance or mixture:	
	EU regulations	
	Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex I, Controlled substances:	none

Safety Data Sheets

Complies with Regulation (EC) No 1907/2006 (REACH), Annex II, amended according to Regulation (EU) No 2020/878

Silasto®-Glänzer

Article no.: No. 97408_B

Revised on: 14.05.2024

Version: 5.0 Replaced version: 4.0



Regulation (EU) 2019/1021 on persistent organic pollutants (new edition), as amended:	none
Regulation (EC) No 649/2012 on the export and import of dangerous chemicals:	none
Regulation (EC) No 1907/2006, REACH Annex XIV List of substances subject to authorisation, as amended:	none
EU. REACH Candidate List of Substances of Very High Concern (SVHC) for authorisation:	<p>Chemical name :Decamethylcyclopentasiloxane</p> <p>CAS No. 541-02-6</p> <p>Concentration :0 - <=0.150</p> <p>Chemical name :Dodecamethylcyclohexasiloxane</p> <p>CAS No. 540-97-6</p> <p>Concentration:0 - <=0.150%</p>
Regulation (EC) No 1907/2006 Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles :	none
Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work...:	none
Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding:	none
Directive 2012/18/EU (Seveso III) on the control of major-accident hazards involving dangerous substances:	none
REGULATION (EC) No 166/2006 concerning the establishment of a European Pollutant Release and Transfer Register, ANNEX II: Pollutants	none
Directive 98/24/EU on the protection of workers from the risks related to chemical agents at work:	<p>Chemical name: Tetraethylsilicate</p> <p>CAS No. 78-10-4</p> <p>Concentration. 1,0 - 10%%</p>
National regulations	

Safety Data Sheets

Complies with Regulation (EC) No 1907/2006 (REACH), Annex II, amended according to Regulation (EU) No 2020/878

Silasto®-Glänzer

Article no.: No. 97408_B

Revised on: 14.05.2024

Version: 5.0 Replaced version: 4.0



	Water hazard class	Ordinance on Installations for Handling Substances Hazardous to Water (AwSV). WGK 1: slightly hazardous to water. Classification according to AwSV, Annex 1 (5.2)
	Reference to Technical Rules for Hazardous Substances (TRGS)	none
	VOC Directive (1999/13/EC) and the Decopaint Directive (2004/42/EC)	none
	Other regulations	Directive 96/82/EC (Seveso III) on the control of major-accident hazards involving dangerous substances: Chemical name: Tetraethylsilicate. CAS No. 78-10-4 Concentration: 1.0 - 10%
15.2	Chemical safety assessment	No chemical safety assessment has been carried out.

SECTION 16: Other information

16.1	Information on the revision	Not relevant.
	Important literature references and data sources:	No data available. wording of H-phrases in chapter 2 and 3 H226 Flammable liquid and vapor. H319 Causes severe eye irritation. H332 Harmful by inhalation. H335 May cause respiratory irritation.
	Training information:	There are no data available.
	Disclaimer:	More information

Safety Data Sheets

Complies with Regulation (EC) No 1907/2006 (REACH), Annex II, amended according to Regulation (EU) No 2020/878

Silasto®-Glänzer

Article no.: No. 97408_B

Revised on: 14.05.2024

Version: 5.0 Replaced version: 4.0



		<p>To the best of our knowledge, the information in this safety data sheet corresponds to our knowledge at the time of revision. The information is intended to provide guidance on the safe handling of the product specified in this safety data sheet during storage, processing, transportation and disposal. The information is not transferable to other products. Insofar as the product named in this safety data sheet is mixed, blended or processed with other materials, or is subjected to processing, the information in this safety data sheet cannot be transferred to the new material thus produced, unless expressly stated otherwise.</p>
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