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duplicating silicone

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Section 1: Identification of the substance/mixture and of the company/undertaking

1.1	Product identifier:	
	Commercial product name:	REPLISIL 35 NO Component A

- **1.2** <u>Relevant identified uses of the substance or mixture and uses advised against:</u> Use of substance/preparation: Manufacturing of duplicating models.
- **1.3** Hersteller / Lieferant:
 SILCONIC® GmbH & Co. KG

 Erlenweg 3/1
 D-89173 Lonsee

 E-Mail:
 info@silconic.de

 Internet:
 www.silconic.de
- **1.4** Emergency telephone number: Departement of work safety, Mrs. Fischer Phone: +49 7336 49697 - 12 Fax: +49 7336 49697 - 99

Section 2: Hazards identification

- 2.1 <u>Classification of the substance or mixture</u>: Not a hazardous substance or mixture.
- 2.2 <u>Label elements:</u>

No labeling according to GHS required.

2.3 Other hazards:

The product contains substances which are relevant for the assessment in chapter 12.5.

Section 3: Composition/information on ingredients

3.1. Substances:

not applicable

3.2. <u>Mixtures:</u>

Chemical characteristics:

Polydimethylsiloxane with functional groups and auxiliaries for addition cross-linking.

Hazardous ingredients:

This material does not contain any ingredients above the permitted limit(s).The product contains the following substances of very high concern(Regulation (EC) No. 1907/2006 (REACH), Article 57) in amounts $\geq 0.1\%$:CAS No.Substance540-97-6Dodecamethylcyclohexasiloxane $\geq 0, 1 - < 0, 3$

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Section 4: First aid measures

4.1 **Description of first aid measures:**

General information:

In case of accident or if you feel unwell seek medical advice (show label or SDS where possible).

After contact with the eyes:

Rinse immediately with plenty of water. Seek medical advice in case of continuous irritation.

After contact with the skin:

Wash with plenty of water or water and soap. In the event of a visible skin change or other complaints, seek medical advice (show label or SDS where possible).

After inhalation:

Material cannot be inhaled under normal conditions.

After swallowing:

Give several small portions of water to drink. Do not induce vomiting.

- 4.2 Most important symptoms and effects, both acute and delayed: Any relevant information can be found in other parts of this section.
- 4.3 Indication of any immediate medical attention and special treatment needed: Further toxicology information in section 11 must be observed.

Section 5: Firefighting measures

5.1 **Extinguishing media:**

Suitable extinguishing media:

alcohol-resistant foam, carbon dioxide, water mist, sprinkler system, sand, extinguishing powder. Extinguishing media which must not be used for safety reasons: Water jet.

5.2 Special hazards arising from the substance or mixture:

Risk of hazardous gasses or fumes in the event of fire. Exposure to combustion products may be a health hazard! Hazardous combustion products: toxic and very toxic fumes.

5.3 **Advice for firefighters:**

Special protective equipment for fire fighting:

Use respiratory protection independent of recirculated air. Keep unprotected persons away.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Secure the area. Wear personal protection equipment (see section 8). Keep unprotected persons away. If material is released indicate risk of slipping. Do not walk through spilled material.

6.2 **Environmental precautions:**

Prevent material from entering surface waters, drains or sewers and soil. Close leak if

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possible without risk. Contain any fluid that runs out using suitable material (e.g. earth). Retain contaminated water/extinguishing water. Dispose of in prescribed marked containers. Inform authorities if substance leaks into surface waters, sewerage or ground.

6.3 <u>Methods and material for containment and cleaning up:</u>

Take up mechanically and dispose of according to local/state/federal regulations. Do not flush away with water. For small amounts: Absorb with a neutral (non-acidic/non-basic) liquid binding material such as diatomaceous earth and dispose of according to government regulations. For large amounts: Liquids may be recovered using suction devices or pumps. If flammable, only air driven or properly rated electrical equipment should be used. Clean any slippery coating that remains using a detergent/soap solution or another biodegradable cleaner. Silicone fluids are slippery; spills are a safety hazard. Apply sand or other inert granular material to improve traction.

6.4 <u>Reference to other sections:</u>

Relevant information in other sections has to be considered. This applies in particular for information given on personal protective equipment (section 8) and on disposal (section 13).

Section 7: Handling and storage

7.1 Precautions for safe handling:

Precautions for safe handling:

Avoid formation of aerosols. In case of aerosol formation special protective measures are required (exhausting by suction, respiratory protection). Spilled substance increases risk of slipping. Observe information in section 8.

Precautions against fire and explosion:

Observe the general rules for fire prevention.

7.2 <u>Conditions for safe storage, including any incompatibilities</u>:

Conditions for storage rooms and vessels:

Observe local/state/federal regulations.

Advice for storage of incompatible materials:

Observe local/state/federal regulations.

Further information for storage:

Keep container tightly closed. Store in a dry and cool place.

7.3. <u>Specific end use(s)</u>:

No data available.

Section 8: Exposure controls/personal protection

8.1 <u>Control parameters:</u>

Maximum airborne concentrations at the workplace: not applicable

8.2 Exposure controls:

Exposure in the work place limited and controlled:

General protection and hygiene measures:

Observe standard industrial hygiene practices for the handling of chemical substances. Do not eat or drink when handling.

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Personal protection equipment:

Respiratory protection:

No personal respiratory protective equipment normally required.

Eye protection:

Recommendation: protective goggles.

Hand protection:

Use of protective gloves is recommended when handling the material. Recommended glove types: Protective gloves made of nitrile rubber thickness of the material: > 0,1 mm Breakthrough time: > 480 min Recommended glove types: Protective gloves made of butyl rubber thickness of the material: > 0,3 mm Breakthrough time: > 480 min Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Note that, due to the numerous external influences (such as temperature), a chemically resistant protective glove in daily use may have a service life that is considerably shorter than the measured break through time.

Exposure to the environment limited and controlled:

Prevent material from entering surface waters, drains or sewers and soil.

8.3 <u>Further information for system design and engineering measures</u>:

Observe information in section 7. Observe national regulatory requirements.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Property: Physical state/form:	Value: liquid	Method:
Colour:	colourless dark	
Odour:	odourless	
Odour limit:	no data available	
pH-Value:	not applicable	
Melting point/melting range:	not applicable	
Boiling point/boiling range:	not applicable	
Flash point:	> 234°C	(ISO 2592)
Evaporation rate:	no data available	
Lower explosion limit (LEL):	not applicable	
Upper explosion limit (UEL):	not applicable	
Vapour pressure:	not applicable	
Water solubility/miscibility:	virtually insoluble	
Relative gas/vapour density:	No data known.	
Relative Density:	1,03 (20 °C)	(-)
	(Water / 4 °C = 1,00)	
Density:	1,03 g/cm³ (20 °C)	(-)
Partition coefficient: n-octanol/water:	No data known.	
Ignition temperature:	> 400°C	(DIN 51794)
Viscosity (dynamic):	4000 - 10000 mPa.s at 23 °C	(Brookfield)
Molecular mass:	not applicable	

9.2 <u>Other information:</u>

No data available.

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Section 10: Stability and reactivity

10.1 – 10.3: Reactivity; Chemical stability; Possibility of hazardous reactions:

If stored and handled in accordance with standard industrial practices no hazardous reactions are known. Relevant information can possibly be found in other parts of this section.

10.4 Conditions to avoid:

none known.

10.5 Incompatible materials:

none known.

10.6 Hazardous decomposition products:

If stored and handled properly: none known. Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 °C (302 °F) through oxidation.

Section 11: Toxicological information

11.1 Information on toxicological effects:

Acute toxicity: Product details:

Product details:						
<u>Route of exposure</u> oral dermal	<u>Result/Effect</u> LD ₅₀ : > 2000mg/Kg LD ₅₀ : > 2000mg/Kg	<u>Species/Test system</u> rat rat	<u>Source</u> Conclusion by analogy Conclusion by analogy			
Skin corrosion/irri	tation:					
Product details:						
<u>Result/Effect</u> not irritating		<u>Species/Test system</u> rabbit	<u>Source</u> Conclusion by analogy			
Serious eye damag	Serious eye damage/eye irritation:					
Product details:						
Result/Effect not irritating		<u>Species/Test system</u> rabbit	<u>Source</u> Conclusion by analogy			
Respiratory or skir	sensitization:					
Product details:						
<u>Route of exposure</u> dermal	<u>Result/Effect</u> not sensitizing	<u>Species/Test system</u> guinea-pig; Bühler Test	<u>Source</u> Conclusion by analogy OECD 406			

Germ cell mutagenicity:

Assessment:

For this endpoint no toxicological test data is available for the whole product.

Carcinogenicity:

Assessment:

For this endpoint no toxicological test data is available for the whole product.

Reproductive toxicity:

Assessment:

For this endpoint no toxicological test data is available for the whole product.

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Specific target organ toxicity (single exposure):

Assessment:

For this endpoint no toxicological test data is available for the whole product.

Specific target organ toxicity (repeated exposure):

Assessment:

For this endpoint no toxicological test data is available for the whole product.

Aspiration hazard:

Assessment:

Based on the physical-chemical properties of the product no aspiration hazard must be expected.

Section 12: Ecological information

12.1. <u>Toxicity:</u>

Assessment:

Assessment based on ecotoxicological tests with similar products under consideration of the physical-chemical properties: For this product no effects on aquatic organisms, relevant for classification, are expected. According to current knowledge adverse effects on water purification plants are not expected.

12.2. Persistence and degradability:

Assessment:

Silicone content: biologically not degradable. Separation by sedimentation.

12.3. Bioaccumulative potential:

Assessment:

Polymer component: No adverse effects expected.

12.4. Mobility in soil:

Assessment:

Silicone content: Insoluble in water.

12.5 <u>Results of PBT and vPvB assessment:</u>

The product contains substances >= 0.1% that have been subjected to the SVHC process according to REACh regulation (EC) No 1907/2006 Art. 57 as fulfilling the PBT and/or vPvB criteria according to REACh regulation (EC) No 1907/2006 Annex XIII.

12.6 Other adverse effects:

None known.

12.7 Additional information:

Easily separable from water by filtration.

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Section 13: Disposal considerations

13.1 Waste treatment methods:

Material:

Recommendation:

Material that cannot be used, reprocessed or recycled should be disposed of in accordance with Federal, State, and local regulations at an approved facility. Depending on the regulations, waste treatment methods may include, e.g., landfill or incineration.

Uncleaned packaging:

Recommendation:

Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local/state/federal regulations. Uncleaned packaging should be treated with the same precautions as the material.

Section 14: Transport information

14.1. – 14.4. UN number; UN proper shipping name; Transport hazard class(es); Packing group:

Road ADR:	Valuation: Not regulated for transport
Railway RID:	Valuation: Not regulated for transport
Transport by sea IMDG-Code:	Valuation: Not regulated for transport
Air transport ICAO-TI/IATA-DGR:	Valuation: Not regulated for transport

14.5. Environmental hazards: Hazardous to the environment: no

14.6. Special precautions for user:

Relevant information in other sections has to be considered.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code: Bulk transport in tankers is not intended.

Section 15: Regulatory information

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

National and local regulations must be observed. For information on labelling please refer to section 2 of this document.

15.2. Details of international registration status:

Relevant information about individual substance inventories, where available, is given below. Japan:

ENCS (Handbook of Existing and New Chemical Substances):

This product is listed in, or complies with, the substance inventory. Australia:

AICS (Australian Inventory of Chemical Substances):

This product is listed in, or complies with, the substance inventory.

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People's Republic of China:

IECSC (Inventory of Existing Chemical Substances in China):

This product is listed in, or complies with, the substance inventory.

Canada:

DSL (Domestic Substance List):

This product is listed in, or complies with, the substance inventory.

Philippines:

PICCS (Philippine Inventory of Chemicals and Chemical Substances):

This product is listed in, or complies with, the substance inventory.

United States of America (USA):

TSCA (Toxic Substance Control Act Chemical Substance Inventory):

All components of this product are listed as active or are in compliance with the substance inventory.

<u>Taiwan:</u>

TCSI (Taiwan Chemical Substance Inventory): This product is listed in, or complies with, the substance inventory. General note: The Taiwanese chemicals regulation requires a phase 1 registration for TCSI-listed or TCSI-compliant substances if imports to Taiwan or manufacturing in Taiwan exceed the trigger quantity of 100 kg/a (for mixtures to be calculated per each ingredient). It is the duty of the importing/manufacturing legal entity to take care of this obligation.

European Economic Area (EEA):

REACH (Regulation (EC) No 1907/2006):

General note: The registration obligations for substances imported into the EEA or manufactured within the EEA by the supplier mentioned in section 1 are fulfilled by the said supplier. The registration obligations for substances imported into the EEA by customers or other downstream users must be fulfilled by the latter.

South Korea (Republic of Korea):

AREC (Act on Registration and Evaluation of Chemicals; "K-REACH"): General note: in case of registration obligations for substances or polymers imported into Korea or manufactured within Korea these are fulfilled by the supplier mentioned in section 1. The registration obligations for substances or polymers imported into Korea by customers or other downstream users must be fulfilled by the latter.

Section 16: Other information

The details in this document are based on the state of our knowledge at the time of revision. They do not constitute an assurance of the described product properties in terms of statutory warranty requirements. The providing of this document to a recipient does not relieve the recipient of his or her responsibility toward compliance with all laws and stipulations applicable to the product. This applies in particular to the further sale or distribution of the product or substances or items containing the product, in other jurisdictions and with regard to the protection of third-party intellectual property rights. If the described product is processed or mixed with other substances or materials, the details stated in this document cannot be conferred to the resultant new product unless this has been expressly mentioned. If the product is repackaged, the recipient is obligated to additionally provide the required safety-related information.

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Section 1: Identification of the substance/mixture and of the company/undertaking

1.1	Product identifier:		
	Commercial product name:	REPLISIL 35 NO	Component B

1.2 <u>Relevant identified uses of the substance or mixture and uses advised against:</u>

E-Mail: <u>info@silconic.de</u> Internet: www.silconic.de

Use of substance/preparation:Manufacturing of duplicating models.Hersteller / Lieferant:SILCONIC® GmbH & Co. KG
Erlenweg 3/1
D-89173 Lonsee

1.4 Emergency telephone number: Phone: +49 7336 49697 - 12 Fax: +49 7336 49697 - 99

Section 2: Hazards identification

2.1 <u>Classification of the substance or mixture:</u>

Not a hazardous substance or mixture.

2.2 Label elements:

No labeling according to GHS required.

2.3 Other hazards:

The product contains substances which are relevant for the assessment in chapter 12.5. Product can release hydrogen. Risk of hydrogen gas formation with water, alcohols, acids, metallic salts, amines and alkalis. In combination with oxygen, the released hydrogen can form oxyhydrogen.

Section 3: Composition/information on ingredients

3.1. Substances:

not applicable

3.2. Mixtures:

Chemical characteristics:

Polydimethylsiloxane with functional groups and auxiliaries for addition cross-linking.

Hazardous ingredients:

This material does not contain any ingredients above the permitted limit(s). The product contains the following substances of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 57) in amounts $\geq 0.1\%$:

<u>CAS No.</u>	<u>Substance</u>	<u>Content [%]</u>
540-97-6	Dodecamethylcyclohexasiloxane	>=0,1 - <0,3

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4.1 <u>Description of first aid measures:</u>

General information:

In case of accident or if you feel unwell seek medical advice (show label or SDS where possible).

After contact with the eyes:

Rinse immediately with plenty of water. Seek medical advice in case of continuous irritation.

After contact with the skin:

Wash with plenty of water or water and soap. In the event of a visible skin change or other complaints, seek medical advice (show label or SDS where possible).

After inhalation:

Material cannot be inhaled under normal conditions.

After swallowing:

Give several small portions of water to drink. Do not induce vomiting.

- **4.2** <u>Most important symptoms and effects, both acute and delayed:</u> Any relevant information can be found in other parts of this section.
- **4.3** Indication of any immediate medical attention and special treatment needed: Further toxicology information in section 11 must be observed.

Section 5: Firefighting measures

5.1 Extinguishing media:

Suitable extinguishing media:

Fires can be controlled with water spray, foam or carbon dioxide. Larger fires are best fought with alcohol-resistant aqueous film forming foam (AFFF-AR).

Extinguishing media which must not be used for safety reasons:

Water jet, extinguishing powder, halones.

5.2 Special hazards arising from the substance or mixture:

Risk of hazardous gasses or fumes in the event of fire. Exposure to combustion products may be a health hazard! Hazardous combustion products: toxic and very toxic fumes. With the use of water-based extinguishing agents care is required because hydrogen can be released, which accumulates after extinguishing the fire in poorly ventilated or confined areas and may refire or cause an explosion. Foam carpets may also include hydrogen or flammable vapors, which can lead to surface bursts. Remove sources of ignition during cleaning and absorbing.

5.3 Advice for firefighters:

Special protective equipment for fire fighting:

Use respiratory protection independent of recirculated air. Keep unprotected persons away.

General information:

Fires involving SiH polysiloxane materials can be difficult to extinguish under certain circumstances.

EC	safety	data	sheet

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6.1 <u>Personal precautions, protective equipment and emergency procedures:</u>

Secure the area. Wear personal protection equipment (see section 8). Keep unprotected persons away. If material is released indicate risk of slipping. Do not walk through spilled material.

6.2 **Environmental precautions:**

Prevent material from entering surface waters, drains or sewers and soil. Close leak if possible without risk. Contain any fluid that runs out using suitable material (e.g. earth). Retain contaminated water/extinguishing water. Dispose of in prescribed marked containers. Inform authorities if substance leaks into surface waters, sewerage or ground.

6.3 <u>Methods and material for containment and cleaning up:</u>

Take up mechanically and dispose of according to local/state/federal regulations. Do not flush away with water. For small amounts: Absorb with a neutral (non-acidic / non-basic) liquid binding material such as diatomaceous earth and dispose of according to government regulations. For large amounts: Liquids may be recovered using suction devices or pumps. Use only air driven or properly rated electrical eqiupment. Use vented recovery containers. Clean any slippery coating that remains using a detergent / soap solution or another biodegradable cleaner. Silicone fluids are slippery; spills are a safety hazard. Apply sand or other inert granular material to improve traction.

Further information:

Exhaust vapours. Eliminate all sources of ignition. Consider explosion protection. Material designated for disposal must be segregated from incompatible substances or materials specified in Sect. 10. Do not blend contaminated material with uncontaminated material. Do not seal collecting vessel gas-tight. Observe notes under section 7.

6.4 <u>Reference to other sections:</u>

Relevant information in other sections has to be considered. This applies in particular for information given on personal protective equipment (section 8) and on disposal (section 13).

Section 7: Handling and storage

7.1 <u>Precautions for safe handling:</u>

Precautions for safe handling:

Ensure adequate ventilation. Open and handle container with care. Keep container closed when not in use. Keep away from incompatible substances in accordance with section 10. Where possible, inert process equipment and blanket vessels, tanks and containers with nitrogen to reduce the available oxygen level. Contact SILCONIC for additional publications on the safe Handling of SiH Products. Avoid formation of aerosols. In case of aerosol formation special protective measures are required (exhausting by suction, respiratory protection). Spilled substance increases risk of slipping. Observe information in section 8.

Precautions against fire and explosion:

Product can release hydrogen. Flammable vapors may accumulate and form explosive mixtures with air in containers, process vessels, including partial, empty and uncleaned containers and vessels, or other enclosed spaces. Keep away from sources of ignition and do not smoke. Take precautionary measures against electrostatic charging. Cool endangered containers with water.

7.2 <u>Conditions for safe storage, including any incompatibilities</u>:

Conditions for storage rooms and vessels:

Do not store in virgin glass containers with basic surface. Observe local/state/federal regulations.

Advice for storage of incompatible materials:

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Do not store with: basic substances (e.g. alkalis, ammonia, amines), oxidizing agents, strong acids. Observe local/state/federal regulations.

Further information for storage:

Store in a dry and cool place. Protect against moisture. Store container in a well ventilated place.

7.3. <u>Specific end use(s)</u>:

No data available.

Section 8: Exposure controls/personal protection

8.1 <u>Control parameters:</u>

Maximum airborne concentrations at the workplace: not applicable

8.2 Exposure controls:

Exposure in the work place limited and controlled:

General protection and hygiene measures:

Observe standard industrial hygiene practices for the handling of chemical substances. Do not eat or drink when handling.

Personal protection equipment:

Respiratory protection:

No personal respiratory protective equipment normally required.

In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit. Suitable respiratory equipment: Filtering half-face mask, according to acknowledged standards such as EN 149. Recommended Filter type: FFP1 or equivalent filter, according to acknowledged standards such as EN 149

Observe the equipment manufacturer's information and wear time limits for respirators.

Eye protection:

Recommendation: protective goggles.

Hand protection:

Use of protective gloves is recommended when handling the material.

Recommended glove types: Protective gloves made of nitrile rubber

thickness of the material: > 0,1 mm Breakthrough time: > 480 min

Recommended glove types: Protective gloves made of butyl rubber

thickness of the material: > 0,3 mm Breakthrough time: > 480 min.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Note that, due to the numerous external influences (such as temperature), a chemically resistant protective glove in daily use may have a service life that is considerably shorter than the measured break through time.

Exposure to the environment limited and controlled:

Prevent material from entering surface waters, drains or sewers and soil.

8.3 **Further information for system design and engineering measures:**

Observe information in section 7. Observe national regulatory requirements.

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9.1	Information on basic physical and o	chemical properties:			
	Property: Physical state/form: Colour: Odour: Odour limit: pH-Value: Melting point/melting range: Boiling point/boiling range: Flash point: Evaporation rate: Lower explosion limit (LEL): Upper explosion limit (UEL): Vapour pressure: Water solubility/miscibility: Relative gas/vapour density:	Value: liquid colourless dark odourless no data available not applicable not applicable not applicable > 216°C no data available not applicable not applicable not applicable virtually insoluble No data known.	Method: (ISO 2592	2)	
	Relative Density:	1,1 (Water / 4 °C = 1,00)	(DIN 5175	57)	
	Density: Partition coefficient: n-octanol/water:	1,1 g/cm ³ No data known.	(DIN 5175	57)	
	Ignition temperature:	> 400°C	(-)		

9.2 <u>Other information:</u>

Viscosity (dynamic): Molecular mass:

According to previous experience spontaneous combustion temperature for polymer siloxane with SiH compounds is above 240 °C (464 °F). On a catalytically active surface ignition may occur at much lower temperature. This applies to porous or fibrous substances including those with alkaline surfaces, such as thermal insulation and cementaceous insulating materials. Explosion limits for released hydrogen: 4 - 75.6%(V). pH Value: Product displays neutral reaction.

not applicable

4000 - 10000 mPa.s at 20°C (Brookfield)

Section 10: Stability and reactivity

10.1 – 10.3: <u>Reactivity; Chemical stability; Possibility of hazardous reactions:</u>

If stored and handled in accordance with standard industrial practices no hazardous reactions are known. Relevant information can possibly be found in other parts of this section.

10.4 Conditions to avoid:

moisture. Heat, open flames, and other sources of ignition. Contact with contaminated piping or vessels or with corroded and rusty containers can increase the rate of hydrogen formation. Observe information in section 7.

10.5 Incompatible materials:

proton-active substances. Reacts violently with: acids, basic substances (e.g. alkalis, ammonia, amines). Reacts with: alcohols, water, moisture, oxidizing agents, catalyst. Reaction causes the formation of: hydrogen.

10.6 <u>Hazardous decomposition products:</u>

In contact with incompatible substances this material may quickly generate a large volume of flammable hydrogen gas. Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 °C (302 °F) through oxidation.

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1 <u>Information on toxicological effects:</u> Acute toxicity: Product details:		
Product details:		
oral LD ₅₀ : > 2000mg/Kg r	<u>Species/Test system</u> rat rat	Source Conclusion by analog Conclusion by analog
Skin corrosion/irritation:		
Product details:		
not irritating r	<u>Species/Test system</u> rabbit	<u>Source</u> Conclusion by analo
Serious eye damage/eye irritation:		
not irritating r Respiratory or skin sensitization:	<u>Species/Test system</u> rabbit	<u>Source</u> Conclusion by analo
Product details:	o · / - · ·	0
	<u>Species/Test system</u> guinea-pig; Bühler Test	Source Conclusion by analo OECD 406
Germ cell mutagenicity:		
Assessment: For this endpoint no toxicological test data is avail	ilable for the whole produ	uct.
Carcinogenicity:		
Assessment:		
For this endpoint no toxicological test data is avail	ilable for the whole produ	ıct.
Reproductive toxicity:		
Assessment:		
For this endpoint no toxicological test data is avail		ict.
Specific target organ toxicity (single exposur	re):	
Assessment: For this endpoint no toxicological test data is avail	ilable for the whole produ	uct.
Specific target organ toxicity (repeated expo	sure):	
Assessment:		
For this endpoint no toxicological test data is avail	ilable for the whole produ	ıct.
Aspiration hazard:		
Assessment:		
Decad on the physical share and an entire of the	product no aspiration haz	zard must be

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12.1. <u>Toxicity:</u>

Assessment:

Assessment based on ecotoxicological tests with similar products under consideration of the physical-chemical properties: For this product no effects on aquatic organisms, relevant for classification, are expected. According to current knowledge adverse effects on water purification plants are not expected.

12.2. Persistence and degradability:

Assessment:

Silicone content: biologically not degradable. Separation by sedimentation.

12.3. Bioaccumulative potential:

Assessment:

Polymer component: No adverse effects expected.

12.4. Mobility in soil:

Assessment:

Silicone content: Insoluble in water.

12.5 <u>Results of PBT and vPvB assessment:</u>

The product contains substances >= 0.1% that have been subjected to the SVHC process according to REACh regulation (EC) No 1907/2006 Art. 57 as fulfilling the PBT and/or vPvB criteria according to REACh regulation (EC) No 1907/2006 Annex XIII.

12.6 Other adverse effects:

None known.

12.7 Additional information:

Easily separable from water by filtration.

Section 13: Disposal considerations

13.1 <u>Waste treatment methods:</u>

Material:

Recommendation:

Risk of oxyhydrogen formation upon contact with the substances mentioned in 10. Material designated for disposal must be segregated from incompatible substances or materials specified in Sect. 10. Wastes of this material should not be mixed with other wastes. Provide measures such as vented bungs to ensure pressure relief in the waste containers. Material that cannot be used, reprocessed or recycled should be disposed of in accordance with Federal, State, and local regulations at an approved facility. Depending on the regulations, waste treatment methods may include, e.g., landfill or incineration.

Uncleaned packaging:

Recommendation:

Containers may contain hazardous quantities of hydrogen gas. Uncleaned containers should not be reused to hold another material due to the potential for reaction between residual product and incompatible materials. Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local/state/federal regulations. Uncleaned packaging should be treated with the same precautions as the material.

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14.1. – 14.4. UN number; UN proper shipping name; Transport hazard class(es); Packing group:

Road ADR:	Valuation: Not regulated for transport
Railway RID:	Valuation: Not regulated for transport
Transport by sea IMDG-Code:	Valuation: Not regulated for transport
Air transport ICAO-TI/IATA-DGR:	Valuation: Not regulated for transport

14.5. Environmental hazards: Hazardous to the environment: no

14.6. Special precautions for user:

Relevant information in other sections has to be considered.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code:

Bulk transport in tankers is not intended.

Section 15: Regulatory information

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

National and local regulations must be observed. For information on labelling please refer to section 2 of this document.

15.2. Details of international registration status:

Relevant information about individual substance inventories, where available, is given below.

Japan:

ENCS (Handbook of Existing and New Chemical Substances):

This product is listed in, or complies with, the substance inventory.

Australia:

AICS (Australian Inventory of Chemical Substances):

This product is listed in, or complies with, the substance inventory.

People's Republic of China:

IECSC (Inventory of Existing Chemical Substances in China):

This product is listed in, or complies with, the substance inventory.

Canada:

DSL (Domestic Substance List):

This product is listed in, or complies with, the substance inventory.

Philippines:

PICCS (Philippine Inventory of Chemicals and Chemical Substances):

This product is listed in, or complies with, the substance inventory.

United States of America (USA):

TSCA (Toxic Substance Control Act Chemical Substance Inventory):

All components of this product are listed as active or are in compliance with the substance inventory.

Taiwan:

TCSI (Taiwan Chemical Substance Inventory): This product is listed in, or complies with, the substance inventory. General note: The Taiwanese chemicals regulation requires a phase 1 registration for TCSI-listed or TCSI-compliant substances if imports to Taiwan or manufacturing in Taiwan exceed the trigger quantity of 100 kg/a (for mixtures to be calculated per each ingredient). It is the duty of the importing/manufacturing legal entity to take care of this obligation.

European Economic Area (EEA): REACH (Regulation (EC) No 1907/2006):

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General note: The registration obligations for substances imported into the EEA or manufactured within the EEA by the supplier mentioned in section 1 are fulfilled by the said supplier. The registration obligations for substances imported into the EEA by customers or other downstream users must be fulfilled by the latter.

South Korea (Republic of Korea):

AREC (Act on Registration and Evaluation of Chemicals; "K-REACH"): General note: in case of registration obligations for substances or polymers imported into Korea or manufactured within Korea these are fulfilled by the supplier mentioned in section 1. The registration obligations for substances or polymers imported into Korea by customers or other downstream users must be fulfilled by the latter.

Section 16: Other information

The details in this document are based on the state of our knowledge at the time of revision. They do not constitute an assurance of the described product properties in terms of statutory warranty requirements. The providing of this document to a recipient does not relieve the recipient of his or her responsibility toward compliance with all laws and stipulations applicable to the product. This applies in particular to the further sale or distribution of the product or substances or items containing the product, in other jurisdictions and with regard to the protection of third-party intellectual property rights. If the described product is processed or mixed with other substances or materials, the details stated in this document cannot be conferred to the resultant new product unless this has been expressly mentioned. If the product is repackaged, the recipient is obligated to additionally provide the required safety-related information.