SAFETY DATA SHEET
Silikonskum D-03, komponent A

The safety data sheet is in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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

Date issued	28.03.2012
Revision date	22.10.2020

1.1. Product identifier

Product name	Silikonskum D-03, komponent A

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/preparation	Fire seal.
Relevant identified uses	SU19 Building and construction work PC9 Coatings and Paints, Fillers, Putties, Thinners

1.3. Details of the supplier of the safety data sheet

Company name	FireSeal AB
Office address	Esbogatan 14
Postal address	P.O. Box 7091 Kista
Postcode	Sollentuna
City	Sweden
Country	
Tel	+4686236100
Fax	+468926865
Website	http://www.fireseal.com
Contact person	info@fireseal.se

1.4. Emergency telephone number

Emergency telephone	Dial for acute emergency:112

SECTION 2: Hazards identification

2.1. Classification of substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]	Aquatic Chronic 3;H412;

2.2. Label elements

Composition on the label	Quartz:10 - 20 %, Zinc oxide:0,25 - 1 %, Octamethylcyclotetrasiloxane:0,1 - 0,25 %
Hazard statements	H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	P273 Avoid release to the environment. P501 Dispose of contents/container to waste managment fascility.

2.3. Other hazards

PBT / vPvB	CAS 556-67-2 does not fulfill the criteria to be considered a PBT and vPvB substance.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents
Quartz	CAS no.: 14808-60-7 EC no.: 238-878-4	STOT RE1; H372	10 - 20 %
Zinc oxide	CAS no.: 1314-13-2 EC no.: 215-222-5 Index no.: 030-013-00-7	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	0,25 - 1 %
Octamethylcyclotetrasiloxane	CAS no.: 556-67-2 EC no.: 209-136-7 Registration number: 01-2119529238-36	Flam. Liq. 3;H226; Repr. 2;H361f; Aquatic Chronic 4;H413;	0,1 - 0,25 %
Description of the mixture	The risk classification of Quartz is not relevant as the product is in a liquid state,		
Substance comments	The full text for all hazard statements is displayed in section 16.		

SECTION 4: First aid measures

4.1. Description of first aid measures

General	Get medical attention if any discomfort continues.
Inhalation	Fresh air.
Skin contact	Wash skin with soap and water. Remove contaminated clothing.
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Ingestion	Rinse mouth thoroughly. Do not induce vomiting. Get medical advice/attention.

4.2. Most important symptoms and effects, both acute and delayed

Acute symptoms and effects	No information.

4.3. Indication of any immediate medical attention and special treatment needed

Other Information	Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Water spray, fog or mist. Alcohol resistant foam. Carbon dioxide (CO2). Powder.
Improper extinguishing media	None known.

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	During fire, gases hazardous to health may be formed.
Hazardous combustion products	Carbon dioxide (CO2). Carbon monoxide (CO). Silicon dioxide Formaldehyde.

5.3. Advice for firefighters

Personal protective equipment	Use personal protective equipment as required.
Fire fighting procedures	Containers close to fire should be removed immediately or cooled with water. Self contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal protection measures	Wear necessary protective equipment. Follow precautions for safe handling described in this safety data sheet.

6.2. Environmental precautions

Environmental precautionary	Avoid release to the environment. Prevent further spillage if it can be done

measures	without risk.

6.3. Methods and material for containment and cleaning up

Cleaning method	Collect with absorbent, non-combustible material into suitable containers. Inform Authorities if large amounts are involved. For waste disposal, see section 13.

6.4. Reference to other sections

Other instructions	See section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling	Avoid inhalation of vapours/spray and contact with skin and eyes. Provide good ventilation. Mechanical ventilation or local exhaust ventilation may be required. First-aid equipment, including eye wash bottle, must be available at the work site. Observe good chemical hygiene practices. Avoid eating, drinking and smoking when using the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage	Store at room temperature. Förvars i korrekt märkta behållare.
Conditions To Avoid	Avoid contact with oxidising agents.

7.3. Specific end use(s)

Specific use(s)	The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure limit values

Substance	Identification	Value	TWA Year
Quartz	CAS no.: 14808-60-7 EC no.: 238-878-4	8-hour TWA: 0,1 mg/m3 Respirable dust	1996
Zinc oxide	CAS no.: 1314-13-2 EC no.: 215-222-5 Index no.: 030-013-00-7		

DNEL / PNEC

Method of testing	Contents
DNEL	**Group:** Consumer **Exposure route:** Oral **Exposure frequency:** Long term (repeated) **Type of effect:** Systemic effect **Value:** 0,83 mg/kg bw/24h **Remarks:** CAS: 1314-13-2
DNEL	**Group:** Worker **Exposure route:** Inhalation **Exposure frequency:** Short term (acute) **Type of effect:** Local effect **Value:** 73 mg/m3 **Remarks:** CAS: 556-67-2
DNEL	**Group:** Worker **Exposure route:** Inhalation **Exposure frequency:** Long term (repeated) **Type of effect:** Systemic effect **Value:** 73 mg/m3 **Remarks:** CAS: 556-67-2

DNEL	**Group:** Consumer **Exposure route:** Inhalation **Exposure frequency:** Short term (acute) **Type of effect:** Local effect **Value:** 13 mg/m3 **Remarks:** CAS: 556-67-2
DNEL	**Group:** Consumer **Exposure route:** Inhalation **Exposure frequency:** Short term (acute) **Type of effect:** Systemic effect **Value:** 13 mg/m3 **Remarks:** CAS: 556-67-2
DNEL	**Group:** Consumer **Exposure route:** Inhalation **Exposure frequency:** Long term (repeated) **Type of effect:** Systemic effect **Value:** 13 mg/m3 **Remarks:** CAS: 556-67-2
DNEL	**Group:** Consumer **Exposure route:** Inhalation **Exposure frequency:** Long term (repeated) **Type of effect:** Local effect **Value:** 13 mg/m3 **Remarks:** CAS: 556-67-2
DNEL	**Group:** Consumer **Exposure route:** Oral **Exposure frequency:** Short term (acute) **Type of effect:** Systemic effect **Value:** 3,7 mg/kg bw/24h **Remarks:** CAS: 556-67-2
DNEL	**Group:** Consumer **Exposure route:** Oral **Exposure frequency:** Long term (repeated) **Type of effect:** Systemic effect **Value:** 3,7 mg/kg bw/24h **Remarks:** CAS: 556-67-2
DNEL	**Group:** Worker **Exposure route:** Dermal **Exposure frequency:** Long term (repeated) **Type of effect:** Systemic effect **Value:** 83 mg/kg bw/24h **Remarks:** CAS: 1314-13-2
DNEL	**Group:** Worker **Exposure route:** Inhalation **Exposure frequency:** Long term (repeated) **Type of effect:** Systemic effect **Value:** 5 mg/m3 **Remarks:** CAS: 1314-13-2
DNEL	**Group:** Consumer **Exposure route:** Dermal **Exposure frequency:** Long term (repeated) **Type of effect:** Systemic effect **Value:** 83 mg/m3 **Remarks:** CAS: 1314-13-2
DNEL	**Group:** Consumer **Exposure route:** Inhalation

	Exposure frequency: Long term (repeated) **Type of effect:** Systemic effect **Value:** 2,5 mg/m3 **Remarks:** CAS: 1314-13-2
DNEL	**Group:** Worker **Exposure route:** Inhalation **Exposure frequency:** Short term (acute) **Type of effect:** Systemic effect **Value:** 73 mg/m3 **Remarks:** CAS: 556-67-2
PNEC	**Exposure route:** Saltwater sediments **Value:** 56,5 mg/kg **Remarks:** CAS: 1314-13-2
PNEC	**Exposure route:** Freshwater sediments **Value:** 117,8 mg/kg **Remarks:** CAS: 1314-13-2
PNEC	**Exposure route:** Sewage treatment plant STP **Value:** 52 ug/l **Remarks:** CAS: 1314-13-2
PNEC	**Exposure route:** Saltwater **Value:** 6,1 ug/l **Remarks:** CAS: 1314-13-2
PNEC	**Exposure route:** Freshwater **Value:** 20,6 ug/l **Remarks:** CAS: 1314-13-2
PNEC	**Exposure route:** Sewage treatment plant STP **Value:** >10 mg/l **Remarks:** CAS: 556-67-2
PNEC	**Exposure route:** Soil **Value:** 0,136 mg/kg **Remarks:** CAS: 556-67-2
PNEC	**Exposure route:** Saltwater sediments **Value:** 0,013 mg/kg **Remarks:** CAS: 556-67-2
PNEC	**Exposure route:** Freshwater sediments **Value:** 0,128 mg/kg **Remarks:** CAS: 556-67-2
PNEC	**Exposure route:** Saltwater **Value:** 0,000044 mg/l **Remarks:** CAS: 556-67-2
PNEC	**Exposure route:** Freshwater **Value:** 0,00044 mg/l **Remarks:** CAS: 556-67-2
PNEC	**Exposure route:** Soil **Value:** 35,6 mg/kg **Remarks:** CAS: 1314-13-2

8.2. Exposure controls

Limitation of exposure on workplace	Provide adequate ventilation. Observe occupational exposure limits and minimize the risk of inhalation of spray.

Safety signs

Respiratory protection

Respiratory protection	Under normal conditions of use respiration protection should not be required.

Hand protection

Hand protection	Use protective gloves made of: Impermeable material. If signs of wear and tear are noticed then the gloves should be replaced. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

Eye / face protection

Eye protection	Use approved safety goggles or face shield.

Skin protection

Skin protection (except hands)	Wear appropriate clothing to prevent reasonably probable skin contact.

Other Information

Other Information	These precautions are for handling at room temperature. Use at elevated temperatures or aerosol / spray applications may require added precautions.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Colour	Black.
Odour	No data recorded.
Comments, Odour limit	No data recorded.
Comments, pH (as supplied)	No data recorded.
Comments, Melting point / melting range	No data recorded.
Boiling point / boiling range	**Value:** 250 °C
Flash point	**Value:** 100 °C **Method of testing:** Closed cup
Flammability (solid, gas)	No data recorded.
Comments, Explosion limit	No data recorded.
Comments, Vapour pressure	No data recorded.
Comments, Vapour density	No data recorded.
Specific gravity	**Value:** 1,08
Solubility description	No data recorded.
Comments, Partition coefficient: n-octanol / water	No data recorded.
Comments, Spontaneous combustability	No data recorded.
Comments, Decomposition temperature	No data recorded.
Viscosity	**Value:** 5000 mm2/s
Explosive properties	Not explosive.
Oxidising properties	Does not meet the criteria for oxidising.

9.2. Other information

Other physical and chemical properties

Physical and chemical properties	No information required.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability	Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Not known.

10.4. Conditions to avoid

Conditions to avoid	Avoid heat.

10.5. Incompatible materials

Materials to avoid	Avoid contact with oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products	Toxic gases may form when heated. Silica. Formaldehyde. Carbon dioxide (CO2). Carbon monoxide (CO).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological Information:

LD50 oral	**Value:** > 2000 mg/kg **Animal test species:** Rat

Potential acute effects

Inhalation	Not Irritating. On basis of test data.
Skin contact	Non Corrosive to skin. Not Irritating. On basis of test data.
Eye contact	Not Irritating. On basis of test data.
Ingestion	No harmful effects expected in amounts likely to be ingested by accident. On basis of test data.

Delayed effects / repeated exposure

STOT-single exposure	No recommendation given.
STOT-repeated exposure	Repeated or prolonged inhalation of quartz at concentrations above 0.2 mg/l/6h/day may cause lung damage. On basis of test data.

Carcinogenic, Mutagenic or Reprotoxic

Carcinogenicity	When heated above 180 degrees C, formaldehyde is formed. Suspected of causing cancer.
Assessment carcinogenicity classification	No recommendation given. On basis of test data.
Carcinogenicity	**Toxicity type:** Carcinogenicity **Route of exposure:** Inhalation. **Species:** Human **Result evaluation:** Positive **Comments:** Test performed on the constituent quartz, which, when bound, is insoluble and therefore does not pose a risk of dust inhalation. **Toxicity type:** Aspiration **Dose:** > 700 ppm **Route of exposure:** Inhalation. **Species:** Rat **Result evaluation:** Results from a 2-year repeat exposure study, which indicated fomation of uterine tumours. **Comments:** Test perfomed on the constituent Octamethylcyclotetrasiloxane.
Assessment Germ Cell Mutagenicity, Classification	No recommendation given. On basis of test data.
Reproductive toxicity	**Toxicity type:** Reproductive / developmental toxicity **Method:** Two generation reproductive toxicity study. **Route of exposure:** Inhalation. **Species:** Rat - Males and females **Result evaluation:** Based on results from animal studies certain evidence

	suggest that the product may have negative effects on sexual function and fertility. **Comments:** Test perfomed on the constituent Octamethylcyclotetrasiloxane.
Assessment reproductive toxicity, Classification	No recommendation given. On basis of test data.

Symptoms of Exposure

Other Information	Health risks arise from the inhalation of dust particles of quartz (silica, crystalline dust) or other fibrogenic products. Quartz in this product (uncured or cured) are not supplied in a form that can be absorbed through inhalation.

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic, fish, Comments	1314-13-2: LC50(96h) Oncorhynchus mykiss 330-780 µg/l. NOEC(30d) Oncorhynchus mykiss 199 µg/l. 556-67-2: LC50(96h) Oncorhynchus mykiss > 0,022 mg/l NOEC Oncorhynchus mykiss >= 0,0044 mg/l
Acute aquatic, algae, Comments	1314-13-2: EC50(72h) Selenastrum capricornutum 136 µg/l. NOEC(72h) Selenastrum capricornutum 24 µg/l. 556-67-2: EC50(96h) Selenastrum capricornutum > 0,022 µg/l. NOEC(96h) Selenastrum capricornutum 0,022 µg/l.
Acute aquatic, Daphnia, Comments	1314-13-2: EC50(48h) Daphnia magna 6,9-16,2 mg/l. NOEC(21d) Daphnia magna 37 µg/l. 556-67-2: EC50(48h) Daphnia magna > 0,015 mg/l NOEC(21d) Daphnia magna >= 0,0079 mg/l
Ecotoxicity	The product contains a small amount of zinc compounds which are estimated to be very toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment.

12.2. Persistence and degradability

Degradation half life	556-67-2: 69,3-144 h (24,6 degC) pH=7 (OECD TG 111)
Comments, Biodegradability	556-67-2: 3,7% (28d), OECD test 310

12.3. Bioaccumulative potential

Comments, BCF	1314-13-2: Fish BCF=177 556-67-2: n-octanol/water: log Pow =6,48 (25,1 degC)

12.4. Mobility in soil

Mobility	The product contains substances which are insoluble in water and which sediment in water systems. Little danger for inhibition of biosludge in sewage plants.

12.5. Results of PBT and vPvB assessment

vPvB evaluation results	556-67-2: PBT & vPvB

12.6. Other adverse effects

Environmental details, summation	No information required.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Specify the appropriate methods of disposal	Dispose of waste and residues in accordance with local authority requirements.
Product classified as hazardous waste	Yes

EWC waste code	EWC: 080409 waste adhesives and sealants containing organic solvents or other dangerous substances

SECTION 14: Transport information

14.1. UN number

Comments	The product is not classified as dangerous goods.

14.2. UN proper shipping name

Comments	Not relevant.

14.3. Transport hazard class(es)

Comments	Not relevant.

14.4. Packing group

Comments	Not relevant.

14.5. Environmental hazards

Comments	Not relevant.

14.6. Special precautions for user

Special safety precautions for user	Not relevant.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Additional information.

Additional information.	The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

SECTION 15: Regulatory information

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

Legislation and regulations	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. EH40/2005 Workplace exposure limits. The List of Wastes (England) (Amendment) Regulations 2005. (SI 2005 No. 895).

15.2. Chemical safety assessment

Chemical safety assessment performed	No

SECTION 16: Other information

Supplier's notes	The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.
Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]	Aquatic Chronic 3; H412;
List of relevant H-phrases (Section 2 and 3).	H413 May cause long lasting harmful effects to aquatic life. H412 Harmful to aquatic life with long lasting effects. H372 Causes damage to organs through prolonged or repeated exposure

	H226 Flammable liquid and vapour. H400 Very toxic to aquatic life. H361f Suspected of damaging fertility. H410 Very toxic to aquatic life with long lasting effects.
Important data sources used to construct the safety data sheet	MSDS supplied by the manufacturer
Information which has been added, deleted or revised	Classification under CLP.
Version	2
Responsible for safety data sheet	FireSeal AB