

SILISIL Silicone Oil 3 cSt

Safety Data Sheet

SILITECH AG encourages and expects you to read and understand the entire SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions necessitate other appropriate methods or actions.

1. IDENTIFICATION

Product name

SILISIL Silicone Oil 3 cSt

Relevant identified uses of the substance or mixture

Industrial Purposes

Restricted to professional users

Uses advised against

None known

Company Identification

SILITECH AG
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Emergency Telephone Number

Tox Info Suisse (24/7): +41 44 251 51 51 or 145 (Switzerland and Liechtenstein).

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Not classified according to Regulation (EC) No. 1272/2008 (CLP).

Other hazards

This product contains a vPvB and/or PBT substance:

Dodecamethylcyclohexasiloxane (PBT/vPvB)

Octamethylcyclotetrasiloxane; [D4] (PBT/vPvB)

This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2023/707.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Not applicable. This product is a mixture.

Mixtures

Product/ Substance	Identifiers	% w/w	Classification	Note
Polydimethylsiloxane	CAS No.: 63148-62-9 EC No.: 613-156-5 REACH: Index No.:	95- 100%	-	-
Dodecamethylcyclohe-xasiloxane	CAS No.: 540-97-6 EC No.: 208-762-8 REACH: 01-2119517435-42-XXXX Index No.:	<1.5%	-	[3], [5], [6], [7]
Octamethylcyclotetrasiloxane; [D4]	CAS No.: 556-67-2 EC No.: 209-136-7 REACH: 01-2119529238-36-XXXX Index No.: 014-018-00-1	<0.1%	Flam. Liq. 3, H226 Repr. 2, H361f Aquatic Chronic 1, H410 (M=10)	[3], [5], [6], [7]

Other information

[3] According to REACH, Annex XVII, the substance is subject to restrictions.

[5] Substance is included in the Candidate List of substances of very high concern (SVHC).

[6] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[7] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

4. FIRST AID MEASURES

Description of first aid measures

General Information

In the case of accident, contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drinks.

Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

Eye contact

If in eyes, flush eyes with water or saline water (20-30 °C) for at least 5 minutes. Remove contact lenses. Seek medical assistance and continue flushing during transport.

Ingestion

If the person is conscious, rinse the mouth with water and stay with the person. Never give the person anything to drink. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the person lean forward with head down to avoid inhalation of or choking on vomited material.

Burns

Not applicable.

Most important symptoms and effects, both acute and delayed

None known.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Information to medics

Bring this safety data sheet or the label of this product.

5. FIREFIGHTING MEASURES

Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist. Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters. If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are: Carbon oxides (CO/CO₂)

Advice for firefighters

No specific requirements

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Contaminated areas may be slippery.

Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. Keep unauthorized people away from the spill

Methods and materials for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

7. HANDLING AND STORAGE

Precautions for safe handling

Smoking, drinking and consumption of food is not allowed in the work area. See section 8 "Exposure controls/personal protection" for information on personal protection.

Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Recommended Storage material

Keep only in original packaging.

Storage conditions

5 – 30 °C

Incompatible material

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

Specific end use(s)

This product should only be used for applications quoted in section 1.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

octamethylcyclotetrasiloxane; [D4]

No substances are listed in the national list of substances with an occupational exposure limit.

octamethylcyclotetrasiloxane; [D4] is included in the national list of substances suspected of causing cancer.

SZW list of carcinogenic substances and processes, mutagenic or toxic for reproduction.

DNEL

Dodecamethylcyclohexasiloxane

Duration	Route of exposure	DNEL
Long term – Local effects - General population	Inhalation	300 µg/m ³
Long term – Local effects - Workers	Inhalation	1.22 mg/m ³
Long term – Local effects - General population	Inhalation	1.5 mg/m ³
Long term – Local effects - Workers	Inhalation	6.1 mg/m ³

Octamethylcyclotetrasiloxane; [D4]

Duration	Route of exposure	DNEL
Long term – Local effects - General population	Inhalation	13 mg/m ³
Long term – Local effects - Workers	Inhalation	73 mg/m ³
Long term – Local effects - General population	Inhalation	13 mg/m ³
Long term – Local effects - Workers	Inhalation	73 mg/m ³
Long term – Local effects - General population	Oral	3.7 mg/kg bw/day

PNEC

Dodecamethylcyclohexasiloxane

Route of exposure	Duration of exposure	DNEL
Freshwater sediment	-	13.5 mg/kg
Marine water sediment	-	1.35 mg/kg
Predators	-	66.7 mg/kg

Octamethylcyclotetrasiloxane; [D4]

Route of exposure	Duration of exposure	DNEL
Freshwater	-	1.5 µg/L
Freshwater sediment	-	3 mg/kg
Marine water	-	150 ng/L
Marine water sediment	-	300 µg/kg
Predators	-	41 mg/kg
Sewage treatment plant	-	10mg/L
Soil	-	840 µg/kg

Exposure controls

Apply general control to prevent unnecessary exposure.

General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios

There are no exposure scenarios implemented for this product.

Exposure limits

Occupational exposure limits have not been defined for the substances in this product.

Appropriate technical measures

Apply standard precautions during use of the product. Avoid inhalation of vapours.

Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.

Measure to avoid environmental exposure

No specific requirements.

Individual protection measures, such as personal protective equipment

Generally

Use only CE marked protective equipment.

Respiratory equipment

No specific requirements.

Skin protection

Recommended	Type/Category	Standards
Dedicated work clothing should be worn.	-	-

Hand protection

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards
Gloves	-	-	EN374

Eye protection

Type	Standards
Safety glasses with side shields	EN166

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid
Color	Colorless
Odor/Odor Threshold	Characteristic
pH	No data available
Density (g/cm³)	No data available
Kinematic viscosity	No data available
Dynamic viscosity	3 mm ² /s
Particle characteristics	Not applicable – product is a liquid
Melting/Freezing point (°C)	No data available
Softening Point/Range	Does not apply to liquids
Boiling point (°C)	No data available
Vapor Pressure	No data available
Relative vapor density	No data available
Decomposition temperature (°C)	No data available
Flash point (°C)	>60 °C
Flammability (°C)	No data available
Auto-ignition temperature (°C)	No data available
Lower/upper explosion limit (% v/v)	No data available
Solubility in water	Insoluble
N-octanol/water coefficient (LogKow)	No data available
Solubility in fat (g/L)	No data available
Other physical and chemical parameters	No data available
Oxidizing properties	No data available

10. STABILITY AND REACTIVITY

Reactivity

No data available.

Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

Possibility of hazardous reactions

None known.

Conditions to avoid

None known.

Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Based on available data for the mixture, the classification criteria are not met.

Skin corrosion/irritation

Based on available data for the mixture, the classification criteria are not met.

Serious eye damage/irritation

Based on available data for the mixture, the classification criteria are not met.

Respiratory sensitisation

Based on available data for the mixture, the classification criteria are not met.

Skin sensitisation

Based on available data for the mixture, the classification criteria are not met.

Germ cell mutagenicity

Based on available data for the mixture, the classification criteria are not met.

Carcinogenicity

Based on available data for the mixture, the classification criteria are not met.

Reproductive toxicity

Based on available data for the mixture, the classification criteria are not met.

STOT-single exposure

Based on available data for the mixture, the classification criteria are not met.

STOT-repeated exposure

Based on available data for the mixture, the classification criteria are not met.

Aspiration hazard

Based on available data for the mixture, the classification criteria are not met.

Long term effects

None known.

Endocrine disrupting properties

This mixture/product does not contain any substances known to have hormone-disrupting properties in relation to health.

12. ECOLOGICAL INFORMATION

Toxicity

Based on available data for the mixture, the classification criteria are not met.

Persistence and degradability

Octamethylcyclotetrasiloxane; [D4]

Compartment	Water
Duration	28 days
Result	3.7 %
Conclusion	Not biodegradable
Test	OECD 310

Bioaccumulative potential

Octamethylcyclotetrasiloxane; [D4]

BCF	> 3000
LogKow	6.49
Conclusion	High potential for bioaccumulation

Mobility in soil

Octamethylcyclotetrasiloxane; [D4]

LogKoc = 16596, Low mobility potential.

Results of PBT and vPvB assessment

This product contains a vPvB and/or PBT substance:

Dodecamethylcyclohexasiloxane (PBT/vPvB)

Octamethylcyclotetrasiloxane; [D4] (PBT/vPvB)

Endocrine disrupting properties

This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.

Other adverse effects

None known.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Product is not covered by regulations on dangerous waste.
Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

EWC Code

Not applicable.

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

14. TRANSPORT INFORMATION

	UN/ID	UN proper shipping name	Hazard classes	PG*	Env**	Other Information
ADR	-	-	-	-	-	-
IMDG	-	-	-	-	-	-
IATA	-	-	-	-	-	-

* Packing group

** Environmental hazards

Additional information

Not dangerous goods according to ADR, IATA and IMDG.

Special precautions for users

Not applicable.

Maritime transport in bulk according to IMO instruments

No data available.

15. REGULATORY INFORMATION

Restrictions for application

Restricted to professional users.

Demands for specific education

No specific requirements.

SEVESO - Categories / dangerous substances

Not applicable.

REACH, Annex XVII

Dodecamethylcyclotetrasiloxane is subject to REACH restrictions (entry 70).
Octamethylcyclotetrasiloxane; [D4] is subject to REACH restrictions (entry 70).
Octamethylcyclotetrasiloxane; [D4] is subject to REACH restrictions (entry 40).

Additional information

Not applicable.

Sources

Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP).
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).

Chemical safety assessment

No.

16. OTHER INFORMATION

Full text of H-phrases as mentioned in section 3

H226, Flammable liquid and vapour.

H361f, Suspected of damaging fertility.

H410, Very toxic to aquatic life with long lasting effects.

CSA = Chemical Safety Assessment CSR = Chemical Safety Report

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

EINECS = European Inventory of Existing Commercial Chemical Substances

ES = Exposure Scenario

EUH statement = CLP-specific Hazard statement

EuPCS = European Product Categorisation System

EWC = European Waste Catalogue

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

GWP = Global warming potential

IARC = International Agency for Research on Cancer (IARC)

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

OECD = Organisation for Economic Co-operation and Development

PBT = Persistent, Bioaccumulative and Toxic

PNEC = Predicted No Effect Concentration

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

RRN = REACH Registration Number

SCL = A specific concentration limit

SVHC = Substances of Very High Concern

STOT-RE = Specific Target Organ Toxicity - Repeated Exposure

STOT-SE = Specific Target Organ Toxicity - Single Exposure

TWA = Time weighted average

UN = United Nations

UVBC = Unknown or variable composition, complex reaction products or of biological materials

VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

Additional information

Not applicable.

The safety data sheet is validated by

The safety data sheet has not been validated

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product.

Information in this safety data sheet cannot be used as a product specification.

Country-language: CH-en
