

Last revised date: 23.10.2022 Supersedes Date: 23.02.2022

Silop.C 1

SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation(EU) No. 2020/878

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

1.1 Product identifier

Product name: Silop.C 1

Chemical name None.

INDEX No. Not applicable CAS-No. 70131-67-8

EC No.

REACH Registration No.

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

Identified uses: Raw material for silicone elastomers

Uses advised against: Not known.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Importer/Distr :

ibutor Information

Momentive Performance Materials GmbH

Chempark Leverkusen Gebaeude V7

DE - 51368 Leverkusen Germany

Contact person : commercial.services@momentive.com

Telephone : General information

+390510924300 (Customer Service Centre)

1.4

Emergency telephone

number

Europe, Israel & All other: +44 (0) 1235239670; Middle East:+44

(0) 1235239671

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has not been classified as hazardous according to the legislation in force.

Classification according to Regulation (EC) No 1272/2008 as amended.

Not classified

The product is not classified for chronic aquatic toxicity, for further details see section 16

2.2 Label ElementsAdditional Information:
Not applicable
No data available.

SDS_GB 1/14



Last revised date: 23.10.2022 Supersedes Date: 23.02.2022

Silop.C 1

2.3 Other hazards

PBT/vPvB data

vPvB: very persistent and very bioaccumulative substance.

Endocrine disrupting properties-Toxicity

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Endocrine disrupting properties-Ecotoxicity

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

Chemical nature: Hydroxyterminated Polydimethylsiloxane

3.1 Substances

General information: No data available.

Chemical name

INDEX No.: Not applicable CAS-No.: 70131-67-8

EC No.:

REACH Registration No.:

M-Factor: Not applicable

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
Dodecamethylcy clohexasiloxane	0,1 - <1%	540-97-6	208-762-8	01- 2119517435- 42-XXXX	Not applicable	vPvB
Octamethylcyclo tetrasiloxane	0,01 - <0,1%	556-67-2	209-136-7	01- 2119529238- 36-XXXX	Aquatic Toxicity (Chronic): 10	PBT, vPvB

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

SECTION 4: First aid measures

General: Move into fresh air and keep at rest. Get medical attention if symptoms

occur. Treat symptomatically.

4.1 Description of first aid measures

Inhalation: Move to fresh air. Get medical attention if symptoms occur.

Eye contact: Rinse the eye with water immediately. Get medical attention if symptoms

occur.

SDS_GB 2/14

[#] This substance has workplace exposure limit(s).



Last revised date: 23.10.2022 Supersedes Date: 23.02.2022

Silop.C 1

Skin Contact: After contact with skin, remove product mechanically. Get medical attention

if symptoms occur.

Ingestion: If swallowed, do NOT induce vomiting. Give a glass of water. Seek medical

attention.

4.2 Most important symptoms and effects, both acute and

delayed:

None known.

4.3 Indication of any immediate medical attention and special treatment needed

Hazards: No information about adverse effects due to exposure.

Treatment: Immediately flush with plenty of water for at least 15 minutes. If easy to do,

remove contact lenses. If swallowed, do NOT induce vomiting. Give a glass

of water.

SECTION 5: Firefighting measures

General Fire Hazards: Use water spray to keep fire-exposed containers cool.

5.1 Extinguishing media Suitable extinguishing

media:

All standard extinguishing agents are suitable.

Unsuitable extinguishing

media:

Do not use water jet as an extinguisher, as this will spread the fire.

5.2 Special hazards arising from the substance or

mixture:

In case of fire, carbon monoxide and carbon dioxide may be formed.

5.3 Advice for firefighters Special fire-fighting

procedures:

Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Keep away from sources of

ignition - No smoking.

Special protective

equipment for fire-fighters:

Use standard firefighting procedures and consider the hazards of other involved materials. Prevent runoff from fire control or dilution from entering

streams, sewers, or drinking water supply.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Caution: Contaminated surfaces may be slippery. Use personal protective equipment.

6.2 Environmental Precautions: Do not allow runoff to sewer, waterway or ground.

6.3 Methods and material for containment and cleaning

up:

Collect spillage with granulates, sawdust, rags or other absorbent.

6.4 Reference to other

sections:

No data available.

SECTION 7: Handling and storage:

SDS_GB 3/14



Last revised date: 23.10.2022 Supersedes Date: 23.02.2022

Silop.C 1

7.1 Precautions for safe

handling:

Do not get in eyes, on skin, on clothing. Do not taste or swallow. Use only

in well-ventilated areas.

Storage conditions: Store in original container.

7.2 Conditions for safe storage,

including any incompatibilities:

Keep container tightly closed in a cool, well-ventilated place.

Storage Stability: No data available.

7.3 Specific end use(s): No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits

None of the components have assigned exposure limits.

Biological Limit Values

None.

8.2 Exposure controls

Appropriate Engineering

Controls:

Eye washes and showers for emergency use.

Individual protection measures, such as personal protective equipment

General information: When using do not eat, drink or smoke.

Eye/face protection: Safety glasses with side-shields conforming to EN166

Skin protection

Hand Protection: Advice: There is no risk to health due to contact with the chemical. Use

hand protection to prevent mechanically injuries.

Other: Wear suitable protective clothing.

Respiratory Protection: No protection is ordinarily required under normal conditions of use and with

adequate ventilation.

Hygiene measures: Observe good industrial hygiene practices. Good personal hygiene is

necessary. Wash hands and contaminated areas with water and soap

before leaving the work site.

Environmental exposure

controls:

No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties Appearance

Physical state: liquid
Form: liquid
Color: Colorless
Odor: Odorless

Odor Threshold:

pH:

No data available.

No data available.

SDS_GB 4/14



Last revised date: 23.10.2022 Supersedes Date: 23.02.2022

Silop.C 1

Freezing point: > -51 °C (No data available.)

Boiling Point: > 300 °C (1.013 hPa) (No data available.)

Flash Point: > 161 °C (DIN 51758)

Evaporation Rate: No data available.

Flammability (solid, gas): No data available.

Flammability Limit - Upper (%):

Flammability Limit - Lower (%):

Vapor pressure: < 100 hPa (20 °C) (No data available.)

Relative vapor density: > 1,0

Density: 0,98 g/cm3 (20 °C) (DIN 51757) 0,98 g/cm3 (50 °C) (DIN

51757)

Relative density: No data available.

Solubility(ies)

Solubility in Water: Insoluble

Solubility (other):

Partition coefficient (n-octanol/water) Log

No data available.

No data available.

Pow:

Autoignition Temperature: No data available.

Decomposition Temperature: No decomposition if stored and applied as directed.

SADT:

Viscosity, dynamic:

Viscosity, kinematic:

No data available.

No data available.

Explosive properties:

No data available.

No data available.

No data available.

9.2 Other information

Minimum ignition temperature: > 200 °C (DIN 51794)

SECTION 10: Stability and reactivity

10.1 Reactivity: No data available.

10.2 Chemical Stability: Material is stable under normal conditions.

10.3 Possibility of hazardous

reactions:

Hazardous polymerization does not occur.

10.4 Conditions to avoid: Keep away from heat, sparks and open flame.

10.5 Incompatible Materials: Strong Acids

10.6 Hazardous Decomposition

Products:

Oxides of silicon. Carbon oxides Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of

formaldehyde are formed due to oxidative degradation.

SECTION 11: Toxicological information

General information: According to current knowledge, polydimethylsiloxanes are not

physiologically a problem; but contact with eyes can cause short time, harmless, reversible blurred vision, due to the formation of an oil film on the

eye.

SDS_GB 5/14



Last revised date: 23.10.2022 Supersedes Date: 23.02.2022

Silop.C 1

Information on likely routes of exposure

Inhalation: No data available.

Ingestion: No data available.

Skin Contact: No data available.

Eye contact: No data available.

11.1 Information on toxicological effects

Acute toxicity

Oral

Product: LD 50 (Rat): 5.000 mg/kg

Specified substance(s)

Dodecamethylcyclohexas LD 50 (Rat): 2.000 mg/kg

iloxane

Octamethylcyclotetrasilox LD 50 (Rat): > 4.800 mg/kg

ane

Dermal

Product: Not classified for acute toxicity based on available data.

Specified substance(s)

Dodecamethylcyclohex LD 50 (Rat): 2.000 mg/kg

asiloxane

Octamethylcyclotetrasil LD 50 (Rat): > 2.375 mg/kg

oxane

Inhalation

Product: Not classified for acute toxicity based on available data.

Specified substance(s)

Dodecamethylcyclohexas No data available.

iloxane

Octamethylcyclotetrasilox LC50 (Rat, 4 h): 36 mg/l

ane

Repeated dose toxicity

Product: No data available.

Specified substance(s)

Dodecamethylcyclohexas NOAEL (Rat(male and female), Oral): 1.000 mg/kg

iloxane

Octamethylcyclotetrasilox No data available.

ane

Skin Corrosion/Irritation:

Product: (Rabbit, 24 h): No skin irritation

Specified substance(s)

Dodecamethylcyclohex OECD-Guideline 404 (Acute Dermal Irritation/Corrosion) (Rabbit, 72 h):

asiloxane No skin irritation

Octamethylcyclotetrasil OECD Test Guideline 404 (Rabbit): Non irritating

oxane

Serious Eye Damage/Eye

Irritation:

Product: (Rabbit): No eye irritation

Specified substance(s)

Dodecamethylcyclohex OECD-Guideline 405 (Acute Eye Irritation/Corrosion) (Rabbit, 72 h): No

asiloxane eye irritation Not irritating

SDS_GB 6/14



Last revised date: 23.10.2022 Supersedes Date: 23.02.2022

Silop.C 1

Octamethylcyclotetrasil

oxane

OECD-Guideline 405 (Acute Eye Irritation/Corrosion) (Rabbit): Non

irritating

Respiratory or Skin Sensitization:

Product: No data available.

Specified substance(s)

Dodecamethylcyclohex

asiloxane

Maximisation Test, OECD-Guideline 406 (Skin Sensitisation) (Guinea

Pig): negative

Octamethylcyclotetrasil

oxane

Maximisation Test, OECD-Guideline 406 (Skin Sensitisation) (Guinea

Pig): Not sensitizing

Germ Cell Mutagenicity

In vitro

Product: No data available.

Specified substance(s)

Dodecamethylcyclohexas

iloxane

No data available.

Octamethylcyclotetrasilox ane

Ames-Test (OECD-Guideline 471 (Genetic Toxicology: Salmonella typhimurium, Reverse Mutation Assay)): negative (not mutagenic)

Mouse Lymphoma Assay (OECD Guidline 476): negative (not mutagenic)

In vivo

Product: No data available.

Specified substance(s)

Dodecamethylcyclohexas

iloxane

OECD-Guideline 474 (Genetic Toxicology: Micronucleus Test) (OECD-Guideline 474 (Genetic Toxicology: Micronucleus Test)) Intraperitoneal

(Mouse, male and female): negative

Octamethylcyclotetrasilox

ane

Chromosomal aberration (OECD 475) Inhalation (Rat, male and female):

negative

Dominant lethal assay (OECD 478) Oral (Rat, male and female): negative

Carcinogenicity

Product: No data available.

Specified substance(s)

Dodecamethylcyclohexas

No data available.

iloxane

Octamethylcyclotetrasilox

No data available.

ane

Reproductive toxicity

No data available. **Product:**

Specified substance(s)

Dodecamethylcyclohexas

No data available.

iloxane

Octamethylcyclotetrasilox

No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specified substance(s)

Dodecamethylcyclohexas

No data available.

iloxane

Octamethylcyclotetrasilox

No data available.

ane

7/14 SDS_GB



Last revised date: 23.10.2022 Supersedes Date: 23.02.2022

Silop.C 1

Specific Target Organ Toxicity - Repeated Exposure

No data available. Product:

Specified substance(s)

Dodecamethylcyclohexas

No data available.

iloxane

Octamethylcyclotetrasilox

No data available.

ane

Aspiration Hazard

Product: No data available.

Specified substance(s)

Dodecamethylcyclohexas

No data available.

iloxane

Octamethylcyclotetrasilox

No data available.

ane

11.2 Information on other hazards

Endocrine disrupting properties

Product: The substance/mixture does not contain components considered to have

> endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission

Regulation (EU) 2018/605 at levels of 0.1% or higher.;

Components:

Dodecamethylcyclohexa

siloxane

No data available.

Octamethylcyclotetrasilo

xane

No data available.

Other effects: No data available.

SECTION 12: Ecological information

12.1 Toxicity

Acute toxicity

Fish

Product: LC50 (Leuciscus idus, 96 h): 200 mg/l

Specified substance(s)

Dodecamethylcyclohexas No data available.

iloxane

No toxicity at the limit of solubility; LC50 (Oncorhynchus mykiss, 96 h): > Octamethylcyclotetrasilox

0,022 mg/l ane

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

Dodecamethylcyclohexas No data available.

iloxane

Octamethylcyclotetrasilox No toxicity at the limit of solubility; EC50 (Daphnia magna, 48 h): > 0,015

ane

mg/l

Chronic Toxicity

Fish

SDS_GB 8/14



Last revised date: 23.10.2022 Supersedes Date: 23.02.2022

Silop.C 1

Product: No data available.

Specified substance(s)

Dodecamethylcyclohexas No toxicity at the limit of solubility; NOEC (Oncorhynchus mykiss, 91 d):

iloxane 0,014 mg/l

No toxicity at the limit of solubility; NOEC (Oncorhynchus mykiss, 93 d): >= Octamethylcyclotetrasilox

0,0044 mg/l ane

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

Dodecamethylcyclohexas No toxicity at the limit of solubility; NOEC (Daphnia magna, 21 d): 0,0046

iloxane mg/l

EC50 (Sediment Invertebrate, 28 d): > 420 mg/l

LOEC (Sediment Invertebrate, 28 d): >= 420 mg/l

Octamethylcyclotetrasilox No toxicity at the limit of solubility; NOEC (Daphnia magna, 21 d): > 0,015

Toxicity to Aquatic Plants

Product: No data available.

Specified substance(s)

Dodecamethylcyclohexas No effects at the limit of solubility.; EC50 (Algae (Pseudokirchneriella

subcapitata), 72 h): > 0,002 mg/l (OECD Test Guideline 201)

No effects at the limit of solubility.; NOEC (Algae (Pseudokirchneriella

subcapitata), 72 h): >= 0,002 mg/l (OECD Test Guideline 201)

Octamethylcyclotetrasilox

No toxicity at the limit of solubility; ErC50 (Selenastrum capricornutum, 96

h): > 0.022 mg/l

12.2 Persistence and Degradability

Biodegradation

iloxane

Product: No data available.

Specified substance(s)

No data available. Dodecamethylcyclohexas

iloxane

ane

Octamethylcyclotetrasilox (29 d, 310 Ready Biodegradability - CO₂ in Sealed Vessels (Headspace

Test)): 3,7 % Persistent Not readily biodegradable.

BOD/COD Ratio

Product No data available.

Specified substance(s)

Dodecamethylcyclohexas No data available.

iloxane

Octamethylcyclotetrasilox No data available.

ane

12.3 Bioaccumulative potential

Product: No data available.

Specified substance(s)

Dodecamethylcyclohexas No data available.

Octamethylcyclotetrasilox Bioconcentration Factor (BCF): 12.400

ane

12.4 Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

SDS_GB 9/14



Last revised date: 23.10.2022 Supersedes Date: 23.02.2022

Silop.C 1

Dodecamethylcyclohexasilo

Octamethylcyclotetrasiloxa

No data available.

No data available.

12.5 Results of PBT and vPvB assessment:

Dodecamethylcyclohexasiloxane

vPvB: very persistent and very bioaccumulative substance.

vPvB: very persistent and very

bioaccumulative substance.

Dodecamethylcyclohexasiloxane (D6) meets the current EU REACH Annex XIII criteria for vPvB and has been added to the candidate list for Substances of very high concern (SVHC)., However our understanding of the available science is that D6 does not behave similarly to known PBT/vPvB substances. The silicones industries interpretation of the available data is that the weight of scientific evidence from field studies shows that D6 is not biomagnifying in aguatic and terrestrial food webs. D6 in air will degrade by naturally occurring reactions in the atmosphere. Any D6 in air that does not degrade by these reactions is not expected to deposit from the air to water, to land, or to living organisms

Octamethylcyclotetrasiloxane

Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative

(vPvB)

Octamethylcyclotetrasiloxane (D4) meets the current EU REACh Annex XIII criteria for PBT and vPvB and has been added to the candidate list for Substances of very high concern (SVHC)., However our understanding of the available science is that D4 does not behave similarly to known PBT/vPvB substances. The silicones industries interpretation of the available data is that the weight of scientific evidence from field studies shows that D4 is not biomagnifying in aquatic and terrestrial food webs. D4 in air will degrade by naturally occurring reactions in the atmosphere. Any D4 in air that does not degrade by these reactions is not expected to deposit from the air to water, to land, or to living organisms.

12.6 Endocrine disrupting properties:

Product: The substance/mixture does not contain components considered to have

> endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission

Regulation (EU) 2018/605 at levels of 0.1% or higher.

Components:

Dodecamethylcyclohexa

siloxane

Octamethylcyclotetrasilo

xane

No data available.

No data available.

12.7 Other adverse effects:

Other hazards

Product: No data available.

SECTION 13: Disposal considerations

SDS_GB 10/14



Last revised date: 23.10.2022 Supersedes Date: 23.02.2022

Silop.C 1

13.1 Waste treatment methods

General information: The generation of waste should be avoided or minimized wherever

possible. Do not discharge into drains, water courses or onto the ground.

See Section 8 for information on appropriate personal protective

equipment.

Disposal methods: Can be incinerated when in compliance with local regulations.

SECTION 14: Transport information

ADR

Not regulated.

ADN

Not regulated.

RID

Not regulated.

IMDG

Not regulated.

IATA

Not regulated.

14.6 Special precautions for user: Not dangerous for transport Protect from moisture. Keep away

from food, drink and animal feeding stuffs. This product is not regarded as dangerous goods according to the national and international regulations on the transport of dangerous goods.

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

Not applicable

SECTION 15: Regulatory information

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

EU Regulations

Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex I, Controlled Substances: none

Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex II, New Substances:

EU. Regulation 2019/1021/EU on persistent organic pollutants (POPs) (recast), as amended: none

Regulation (EC) No. 649/2012 Import and export of dangerous chemicals: none

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended:

SDS GB 11/14



Last revised date: 23.10.2022 Supersedes Date: 23.02.2022

Silop.C 1

none

EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC):

Chemical name	CAS-No.	Concentration
Dodecamethylcyclohexasiloxane	540-97-6	0 - <=0,272%

EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC):

Chemical name	CAS-No.	Concentration
Dodecamethylcyclohexasiloxane	540-97-6	0,1 - 1,0%

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use: none

Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work.: none

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breast feeding.: none

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I: None present or none present in regulated quantities.

EU. Regulation No. 166/2006 PRTR (Pollutant Release and Transfer Registry), Annex II: Pollutants: none

Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work: none

15.2 Chemical safetyNo Chemical Safety Assessment has been carried out.
assessment:

Inventory Status

Australia AICS:	y (positive listing)	Remarks: None.
EU EINECS List:	y (positive listing)	Remarks: None.
Japan (ENCS) List:	y (positive listing)	Remarks: None.
China Inventory of Existing	y (positive listing)	Remarks: None.
Chemical Substances:		
Korea Existing Chemicals Inv.	y (positive listing)	Remarks: None.
(KECI).		

Canada DSL Inventory List: y (positive listing) Remarks: None.
Canada NDSL Inventory: n (negative listing) Remarks: None.
Philippines PICCS: y (positive listing) Remarks: None.

US TSCA Inventory: y (positive listing) Remarks: On TSCA Inventory

Taiwan Chemical Substance y (positive listing) Remarks: None.

Inventory:

SDS_GB 12/14



Last revised date: 23.10.2022 Supersedes Date: 23.02.2022

Silop.C 1

REACH: If purchased from Momentive Performance Materials GmbH in Leverkusen, Germany, all

substances in this product have been registered by Momentive Performance Materials GmbH or upstream in our supply chain or are exempt from registration under Regulation (EC) No 1907/2006 (REACH). For polymers, this

includes the constituent monomers and other

reactants.

Remarks: None.

SECTION 16: Other information

Revision Information: Not relevant.

Key literature references and sources for data:

The partition coefficient of D4 between PDMS and water has been determined as log KPDMS-water =7.09. It follows that PDMS containing up to 3%w/w D4 will generate a thermodynamic limit concentration of 2.4 μ g D4/L in the water phase. The critical 21d-NOEC for daphnia of 7.9 μ g D4/L will not be reached. The product is therefore not classified for chronic aquatic toxicity

Wording of the H-statements in section 2 and 3: none

Training information: No data available.

Issue Date: 23.10.2022

Disclaimer:

Notice to reader

Unless otherwise specified in section 1.2, Momentive Products are intended for industrial application only.

They are not intended for specific medical applications, neither for long-lasting (> 30 days) implantation into the human body, injected or directly ingested, nor for the manufacture of multiple usable contraceptives.

Further Information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warrantyor quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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SDS_GB 13/14



Last revised date: 23.10.2022 Supersedes Date: 23.02.2022

Silop.C 1

SDS_GB 14/14