

Version: 2.3 Issue Date: 06.03.2019 Last revised date: 12.02.2024

Supersedes Date: 22.12.2022

SAFETY DATA SHEET

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567

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

1.1 Product identifier

Product name:

SILIKOFTAL® HTT

Chemical name:

Organo-modified polysiloxane in oragnic solvent

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

Identified uses: Industrial use

Uses advised against: None known.

1.3 Details of the supplier of the safety data sheet

: Evonik Operations GmbH Company Name

Rellinghauser Str. 1-11

45128 Essen Germany

Telephone : +49 201 173 01 Fax : +49 201 173 3000

F-mail : productsafety-sp@evonik.com

1.4 Emergency telephone number:

24-Hour Health : +49 2365 49 2232 Emergency +49 2365 49 4423 (Fax)

National Poison Information Service (NPIS) England, Scotland and Wales: NHS: 111

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has been classified according to the legislation in force.

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567

Physical Hazards

Flammable liquids Category 3 H226: Flammable liquid and vapor.

Health Hazards

Serious eye irritation Category 2 H319: Causes serious eye irritation.

Specific Target Organ Toxicity -Category 3 H336: May cause drowsiness or dizziness.

Single Exposure



Version: 2.3

Issue Date: 06.03.2019 Last revised date: 12.02.2024 Supersedes Date: 22.12.2022

2.2 Label Elements



Signal Words: Warning

Hazard Statement(s): H226: Flammable liquid and vapor.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

Precautionary Statements

Prevention: P210: Keep away from heat, hot surfaces, sparks, open flames and

other ignition sources. No smoking.

P261: Avoid breathing dust/fume/gas/mist/vapors/spray.

P280: Wear protective gloves/ protective clothing/ eye protection/

face protection.

Response: P312: Call a POISON CENTER or doctor/ physician if you feel

unwell.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice/attention.

Hazardous ingredients which must be listed on the label:

2-methoxy-1-methylethyl acetate

2.3 Other hazards

None known.

SECTION 3: Composition/information on ingredients

Chemical name:

Organo-modified polysiloxane in oragnic solvent

3.2 Mixtures

Chemical name	Concentrati on	CAS-No.	EC No.	• • • • • • • • • • • • • • • • • • • •	REACH Registration No.	M-Factor:	Notes
2-methoxy- 1- methylethyl acetate	20 - <50%	108-65-6	203-603-9		01- 211947579 1-29	No data available.	#
Ethanol (Ethyl alcohol)	1 - <5%	64-17-5	200-578-6		01- 211945761 0-43	No data available.	#
isobutanol	1 - <3%	78-83-1	201-148-0		01- 211948460 9-23	No data available.	#
octamethyl	0.01 -	556-67-2	209-136-7	-	01-	Aquatic	##



Version: 2.3

Issue Date: 06.03.2019 Last revised date: 12.02.2024 Supersedes Date: 22.12.2022

Product name: SILIKOFTAL® HTT

cyclotetrasi	<0.1%		211952923	Toxicity	
loxane			8-36	(Chronic): 10	

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

Classification

Chemical name	Classification	Notes
2-methoxy-1-methylethyl acetate	Classification: Flam. Liq.: 3: H226; STOT SE: 3: H336;	None.
	Supplemental label information: None known.	
Ethanol (Ethyl alcohol)	Classification: Flam. Liq.: 2: H225; Eye Irrit.: 2: H319;	None.
	Supplemental label information: None known.	
isobutanol	Classification: Flam. Liq.: 3: H226; Skin Irrit.: 2: H315; Eye Dam.: 1: H318; STOT SE: 3: H335 H336;	None.
	Supplemental label information: None known.	
octamethylcyclotetrasiloxa	Classification: Flam. Liq.: 3: H226; Repr.: 2: H361f; Aquatic	None.
ne	Chronic: 1: H410;	
	Supplemental label information: None known.	

The full text for all H-statements is displayed in section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: Remove soiled or soaked clothing immediately

Inhalation: fresh air supply, consult a doctor if feeling unwell.

Skin Contact: In case of contact with skin wash off with soap and water. In case

of discomfort: Supply with medical care.

Eye contact: In case of contact with eyes rinse thoroughly with plenty of water.

If symptoms persist, seek medical advice.

Ingestion: Thoroughly clean the mouth with water In case of discomfort:

Supply with medical care.

Personal Protection for First-aid

Responders:

No data available.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: Depending on the dose inhalation and/or ingestion may cause:

headache, inebriation, unconsciousness. Serious eye irritation

Hazards: No data available.

4.3 Indication of immediate medical attention and special treatment needed

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

^{##} This substance is listed as SVHC.



Version: 2.3 Issue Date: 06.03.2019

Last revised date: 12.02.2024 Supersedes Date: 22.12.2022

Treatment: Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: foam, carbon dioxide, dry powder, water spray.

Unsuitable extinguishing media: High volume water jet.

5.2 Special hazards arising from the

substance or mixture:

In the event of fire the following can be released: - Carbon monoxide, carbon dioxide, silicon dioxide benzene Under certain conditions of combustion traces of other toxic

substances cannot be excluded

5.3 Advice for firefighters

Special fire fighting procedures: Keep away from sources of ignition. Take action to prevent

static discharges. Vapours may form explosive mixtures with

air. Cool endangered containers by water spray

Special protective equipment for fire-

fighters:

Do not inhale explosion and/or combustion gases. Self-

contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective

equipment and emergency procedures:

Use personal protective equipment. Ensure adequate

ventilation. Keep away sources of ignition.

6.1.1 For non-emergency personnel: No data available.

6.1.2 For emergency responders:No data available.

6.2 Environmental Precautions:Do not allow to enter drains or waterways Prevent product

from getting into subsoil/soil.

6.3 Methods and material for containment and

cleaning up:

Take up with absorbent material (eg sand, kieselguhr,

universal binder) Dispose of absorbed material in

accordance with the regulations.

6.4 Reference to other sections: For further information on exposure monitoring and disposal

see sections 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures:No data available.

Local/Total ventilation:No data available.

Safe handling advice: Provide good ventilation of working area (local exhaust

ventilation if necessary). Use respiratory protection during spraying.Do not inhale gases/vapours/aerosols. Avoid

contact with skin and eyes.

Contact avoidance measures: No data available.



Version: 2.3

Issue Date: 06.03.2019 Last revised date: 12.02.2024 Supersedes Date: 22.12.2022

7.2 Conditions for safe storage, including any incompatibilities

Safe storage conditions: Keep container tightly closed in a cool, well-ventilated place.

Safe packaging materials:No data available.

7.3 Specific end use(s): No further recommendations.

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits

Chemical name	Туре	Form of exposure	Exposure Limit Values		Source
2-methoxy-1-methylethyl acetate	TWA		50 ppm	274 mg/m3	EH40 WEL (12 2011)
	STEL 15 minutes		100 ppm	548 mg/m3	EH40 WEL (01 2020)
Ethanol (Ethyl alcohol)	TWA		1,000 ppm	1,920 mg/m3	EH40 WEL (12 2011)
isobutanol	TWA		50 ppm	154 mg/m3	EH40 WEL (12 2011)
	STEL 15 minutes		75 ppm	231 mg/m3	EH40 WEL (01 2020)

Please refer to the latest edition of the appropriate source text and consult an industrial hygienist or similar professional, or local agencies, for further information.

Biological Limit Values

No biological exposure limits noted for the ingredient(s).

DNEL-Values

Remarks: DNEL-Values

Critical component	Туре	Route of Exposure	Health Warnings	Remarks
2-methoxy-1-methylethyl acetate	General population	Dermal	Systemic, long-term; 320 mg/kg	Repeated dose toxicity
	Workers	Inhalation	Systemic, long-term; 275 mg/m3	irritation respiratory tract
	Workers	Dermal	Systemic, long-term; 796 mg/kg	Repeated dose toxicity
	General population	Oral	Systemic, long-term; 36 mg/kg	Repeated dose toxicity
	General population	Inhalation	Systemic, long-term; 33 mg/m3	irritation respiratory tract
	General population	Eyes	Local effect;	No hazard identified
	Workers	Eyes	Local effect;	No hazard identified
	General population	Inhalation	Local, long-term; 33 mg/m3	irritation respiratory tract
	Workers	Inhalation	Local, short-term; 550 mg/m3	irritation respiratory tract
Ethanol (Ethyl alcohol)	Workers	Inhalation	Local, short-term; 1900 mg/m3	irritation respiratory tract
	General population	Dermal	Systemic, long-term; 206 mg/kg	Repeated dose toxicity
	General population	Inhalation	Systemic, long-term; 114 mg/m3	Carcinogenicity
	General population	Oral	Systemic, long-term; 87 mg/kg	Repeated dose toxicity
	Workers	Dermal	Systemic, long-term; 343 mg/kg	Repeated dose toxicity
	General population	Eyes	Local effect;	No hazard identified
	Workers	Inhalation	Systemic, long-term; 950 mg/m3	
	General population	Inhalation	Local, short-term; 950 mg/m3	irritation respiratory tract



Version: 2.3

Issue Date: 06.03.2019 Last revised date: 12.02.2024 Supersedes Date: 22.12.2022

	General population	Eyes	Local effect;	Medium hazard (no threshold derived)
	Workers	Eyes	Local effect;	No hazard identified
	Workers	Eyes	Local effect;	Low hazard (no threshold derived)
	Workers	Inhalation	Systemic, long-term; 380 mg/m3	Carcinogenicity
	Workers	Eyes	Local effect;	Medium hazard (no threshold derived)
isobutanol	General population	Inhalation	Local, long-term; 55 mg/m3	
	Workers	Eyes	Local effect;	Medium hazard (no threshold derived)
	Workers	Inhalation	Local, long-term; 310 mg/m3	
	General population	Eyes	Local effect;	Medium hazard (no threshold derived)
octamethylcyclotetrasiloxane	General population	Eyes	Local effect;	No hazard identified
	General population	Inhalation	Local, long-term; 13 mg/m3	Repeated dose toxicity
	Workers	Inhalation	Systemic, long-term; 73 mg/m3	Repeated dose toxicity
	General population	Inhalation	Systemic, long-term; 13 mg/m3	Repeated dose toxicity
	General population	Oral	Systemic, long-term; 3.7 mg/kg	Repeated dose toxicity
	Workers	Inhalation	Local, long-term; 73 mg/m3	Repeated dose toxicity
	Workers	Eyes	Local effect;	No hazard identified

PNEC-Values

Remarks: PNEC-Values

Critical component	Environmental	PNEC-Values	Remarks	
	compartment			
2-methoxy-1-methylethyl acetate	Aquatic (marine water)	0.064 mg/l		
	Sewage treatment plant	100 mg/l		
	Sediment (marine water)	0.329 mg/kg		
	Aquatic (freshwater)	0.635 mg/l		
	Soil	0.29 mg/kg	Soil	
	Sediment (freshwater)	3.29 mg/kg		
Ethanol (Ethyl alcohol)	Sewage treatment plant	580 mg/l		
	Soil	0.63 mg/kg	Soil	
	Aquatic (freshwater)	0.96 mg/l		
	Predator	0.38 g/kg	Oral	
	Aquatic (marine water)	0.79 mg/l		
	Predator	0.72 g/kg	Oral	
	Sediment (freshwater)	3.6 mg/kg		
	Sediment (marine water)	2.9 mg/kg		
isobutanol	Soil	0.076 mg/kg		
	Sediment (marine water)	0.156 mg/kg		
	Sediment (freshwater)	1.56 mg/kg		
	Aquatic (freshwater)	0.4 mg/l		
	Aquatic (marine water)	0.04 mg/l		
	Sewage treatment plant	10 mg/l		
octamethylcyclotetrasiloxane	Sediment (freshwater)	3 mg/kg		
	Aquatic (freshwater)	1.5 µg/l		
	Soil	0.84 mg/kg	Soil	
	Aquatic (marine water)	0.15 μg/l		
	Sewage treatment plant	10 mg/l		•
	Predator	41 mg/kg	Oral	
	Sediment (marine water)	0.3 mg/kg		

8.2 Exposure controls

Appropriate Engineering Controls: No data available.

Individual protection measures, such as personal protective equipment

Eye/face protection: Safety glasses



Version: 2.3

Issue Date: 06.03.2019 Last revised date: 12.02.2024 Supersedes Date: 22.12.2022

Hand Protection: Material: Nitrile rubber.

Break-through time: 480 min Glove thickness: 0.11 mm Material: Natural rubber. Break-through time: 480 min Glove thickness: 0.5 mm Material: Chloroprene Break-through time: 480 min Glove thickness: 0.65 mm Material: Butyl rubber. Break-through time: 480 min Glove thickness: 0.7 mm

Skin and Body Protection: protective clothing

Respiratory Protection: in case of formation of vapours/aerosols: Short term: filter

apparatus, combination filter A-P2

Hygiene measures: Wash hands before breaks and immediately after handling

the product. When using do not eat, drink or smoke. Remove soiled or soaked clothing immediately.

Environmental Controls: The environmental regulations on the control and monitoring

of environmental exposures are to be observed.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

liquid Physical state: Form: liquid Color: Colorless Odor: Characteristic **Odor Threshold:** not measured Freezing point: not measured **Boiling Point:** not measured Flammability: not measured Upper/lower limit on flammability or explosive limits **Explosive limit - upper:** not measured

Flash Point: 30 °C

Explosive limit - lower:

Method: DIN EN ISO 2719

not measured

Auto-ignition temperature: not measured

Decomposition Temperature: not measured

pH: 4.5 at 20 °C

Concentration: 100 g/l Concentration: 10 %

in Water

Viscosity

Dynamic viscosity: 1,600 - 2,800 mPa.s at 25 °C

Method: DIN 53019



Version: 2.3

Issue Date: 06.03.2019 Last revised date: 12.02.2024 Supersedes Date: 22.12.2022

Kinematic viscosity: 1460 - 1947 mm2/s at 25 °C,

Method: calculated

Solubility(ies)

Solubility in Water: partly soluble
Solubility (other): not measured
Partition coefficient (n-octanol/water): not measured
Vapor pressure: not measured
Relative density: not measured

Density: 1.13 g/cm3 at 25 °C

Relative vapor density: not measured

9.2 Other information

Explosive properties: not measured

Oxidizing properties: not oxidizing

Self-ignition: not measured

Metal Corrosion: Not corrosive to metals

Evaporation Rate: not measured

SECTION 10: Stability and reactivity

10.1 Reactivity: see section "Possibility of hazardous reactions".

10.2 Chemical Stability: The product is stable under normal conditions.

10.3 Possibility of hazardous reactions: No hazardous reactions with proper storage and handling

10.4 Conditions to avoid: Open flames, sparks or input of much heat

10.5 Incompatible Materials: Not known.

10.6 Hazardous Decomposition None with proper storage and handling.

Products:

SECTION 11: Toxicological information

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

Information on likely routes of exposure

Inhalation: Information on effects are given below.

Skin Contact: Information on effects are given below.

Eye contact: Information on effects are given below.

Ingestion: Information on effects are given below.

Acute toxicity (list all possible routes of exposure)

Oral

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

Components:



Version: 2.3

Issue Date: 06.03.2019 Last revised date: 12.02.2024 Supersedes Date: 22.12.2022

2-methoxy-1-methylethyl LD 50, Rat, Female, Male, 6,190 mg/kg, OECD 401

LD 50, Rat, Male, 6,190 - 10,000 mg/kg, OECD 401 acetate

LD 50, Rat, Female, 5,155 mg/kg, OECD 401

LD 50, Rat, Female, Male, 10,470 mg/kg, OECD 401, Not toxic after Ethanol (Ethyl alcohol)

single exposure

isobutanol LD 50. Rat. Male. > 2.830 mg/kg. OECD 401. Literature

LD 50, Rat, Female, 3,350 mg/kg, OECD 401, Literature

LD 50. Rat. Male. > 5.000 mg/kg. OECD 401 octamethylcyclotetrasilox

ane

Dermal

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

Components:

2-methoxy-1-methylethyl

LD 50, Rabbit, Female, Male, > 5,000 mg/kg, OECD 402

Ethanol (Ethyl alcohol)

LD 50, Rabbit, > 20,000 mg/kg, Not toxic after single exposure,

(analogy)

LD 50, Rabbit, Female, 2,460 mg/kg, OECD 402, Literature isobutanol

LD 50, Rabbit, Male, > 2,000 mg/kg, OECD 402, Literature

octamethylcyclotetrasilox

ane

LD 50, Rat, Female, Male, > 5,000 mg/kg, OECD 402

Inhalation

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

Components:

2-methoxy-1-methylethyl

Ethanol (Ethyl alcohol)

LC 50. Rat. 4 h. > 35.7 mg/l. Vapour

acetate

isobutanol

Dust and mist, Not toxic after single exposure, No data available. LC 50, Rat, Female, Male, 4 h, 124.7 mg/l, OECD 403, Not toxic after

single exposure, Vapour

Not toxic after single exposure, Not applicable, Dust and mist

Not toxic after single exposure, No classification, Vapour

Not toxic after single exposure, No data available., Dust and mist

octamethylcyclotetrasilox

LC 50, Rat, Female, Male, 4 h, 36 mg/l, OECD 403, Vapour Not toxic after single exposure, Dust and mist, No data available.

Repeated dose toxicity

Product: No data available.

Components:

2-methoxy-1-methylethyl

acetate

No data available.

Ethanol (Ethyl alcohol)

No data available.

isobutanol octamethylcyclotetrasilox

ane

No data available.

NOAEC, Rat, Female, Male, Inhalation, Vapour, 5 days/weeks, 6

hours/day, 1.8 mg/l, Subchronic toxicity

LOAEC, Rat, Female, Male, Inhalation, Vapour, 5 days/weeks, 6

hours/day, 8.5 mg/l, chronic

NOAEC, Rat. Female, Male, Inhalation, Vapour, 5 days/weeks, 6

hours/day, 0.36 mg/l, Subacute toxicity

Skin Corrosion/Irritation

Product: No data available.

Components:

2-methoxy-1-methylethyl

acetate

Not irritating, OECD 404, Rabbit

Ethanol (Ethyl alcohol)

Not irritating, OECD 404, Rabbit

isobutanol

Irritating., EU-CLP as per Regulation (EU) No. 1272/2008, Annex VI

octamethylcyclotetrasilox Not irritating, OECD 404, Rabbit

ane

Serious Eye Damage/Eye Irritation



Version: 2.3

Issue Date: 06.03.2019 Last revised date: 12.02.2024 Supersedes Date: 22.12.2022

Product: No data available.

Components:

2-methoxy-1-methylethyl

Not irritating, OECD 405, Rabbit

acetate

Ethanol (Ethyl alcohol)

Irritating., OECD 405, Rabbit

isobutanol

Risk of serious damage to eyes., OECD 405, Rabbit, 24 h, Literature

octamethylcyclotetrasilox Not irritating, OECD 405, Rabbit

ane

Respiratory or Skin Sensitization

Product: No data available.

Components:

2-methoxy-1-methylethyl

Maximization Test, OECD 406, Guinea Pig, Not a skin sensitizer.

acetate

Ethanol (Ethyl alcohol)

Maximization Test, OECD 406, Guinea pig, Not a skin sensitizer.

Respiratory sensitizer, Rat, Not a respiratory sensitizer

isobutanol octamethylcyclotetrasilox Sensitization test, QSAR, Not a skin sensitizer.

ane

Magnussona i Kligmana., OECD 406, Rabbit, Not a skin sensitizer.

Sensitization test, Human, Not a skin sensitizer.

Maximization Test, OECD 406, Guinea Pig, Not a skin sensitizer.

Carcinogenicity

Product: No data available.

Components:

2-methoxy-1-methylethyl

No data available.

acetate

Ethanol (Ethyl alcohol)

Not classified

isobutanol

No data available. No data available.

octamethylcyclotetrasilox

ane

Germ Cell Mutagenicity

No data available.

In vitro

Product: No data available.

Components:

2-methoxy-1-methylethyl

No data available.

acetate

Ethanol (Ethyl alcohol)

Ames test, OECD 471:, negative, (analogy)

gene mutation test, OECD 476: , negative, (analogy)

isobutanol No data available.

octamethylcyclotetrasilox Ames test, OECD 471:, negative

Chromosomal aberration, OECD 473: , negative ane

gene mutation test, OECD 476: , negative

In vivo

Product: No data available.

Components:

2-methoxy-1-methylethyl

No data available.

acetate

Ethanol (Ethyl alcohol) Chromosomal aberration, OECD 478, Oral, Mouse, Male, negative

isobutanol No data available.



Version: 2.3

Issue Date: 06.03.2019 Last revised date: 12.02.2024 Supersedes Date: 22.12.2022

octamethylcyclotetrasilox Micronucleus test, OECD 474, Inhalation - vapor, Rat, negative

ane

Chromosomal aberration, OECD 478, Oral, Rat, negative

Chromosomal aberration, OECD 475, Inhalation - vapor, Rat, Female,

Male, negative

Reproductive toxicity

Product: No data available.

Components:

2-methoxy-1-methylethyl No data available.

acetate

Ethanol (Ethyl alcohol) Not classified

isobutanol

No data available.

octamethylcyclotetrasilox

Suspected of damaging fertility or the unborn child. Suspected of

damaging fertility.

Specific Target Organ Toxicity - Single Exposure Product: No data available.

Components:

2-methoxy-1-methylethyl

acetate

Inhalation - vapor, Central nervous system., Category 3 with narcotic

effects.

Ethanol (Ethyl alcohol)

isobutanol

No data available. Inhalation - vapor, Respiratory system, Category 3 with respiratory tract

Inhalation - vapor, Central nervous system., Category 3 with narcotic

effects.

octamethylcyclotetrasilox No data available.

ane

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Components:

2-methoxy-1-methylethyl

No data available.

acetate

Ethanol (Ethyl alcohol) isobutanol

No data available. No data available.

octamethylcyclotetrasilox

No data available.

ane

Aspiration Hazard

Product: Not classified

Components:

2-methoxy-1-methylethyl

Not classified

acetate

Ethanol (Ethyl alcohol)

Not classified

isobutanol

Not classified

octamethylcyclotetrasilox

Not classified

ane

11.2 Information on other hazards

Other information

Product: No data available.

SECTION 12: Ecological information



Version: 2.3

Issue Date: 06.03.2019 Last revised date: 12.02.2024 Supersedes Date: 22.12.2022

12.1 Toxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Components:

2-methoxy-1-methylethyl LC 50, Oncorhynchus mykiss, 96 h, > 100 - 180 mg/l OECD 203

acetate NOEC, Oncorhynchus mykiss, 96 h, 100 mg/l OECD 203

Ethanol (Ethyl alcohol) LC 50, Pimephales promelas, 96 h, 11,200 mg/l US-EPA-method

isobutanol LC 50, Pimephales promelas, 96 h, 1,430 mg/l, Literature

octamethylcyclotetrasilo LC 50, Oncorhynchus mykiss, 96 h, > 22 µg/l US-EPA-method xane NOEC, Oncorhynchus mykiss, 96 h, 22 µg/l US-EPA-method

Aquatic Invertebrates

Product: No data available.

Components:

2-methoxy-1-methylethyl EC 50, Daphnia magna, 48 h, > 500 mg/l Tested according to Annex V

acetate of Directive 67/548/EEC.

Ethanol (Ethyl alcohol) LC 50, Ceriodaphnia dubia, 48 h, 5,012 mg/l

isobutanol EC 50, Daphnia pulex, 48 h, 1,100 mg/l, Literature

octamethylcyclotetrasilo NOEC, Daphnia magna, 48 h, 15 μg/l US-EPA-method

xane EC 50, Daphnia magna, 48 h, > 15 μg/l US-EPA-method

Toxicity to Aquatic Plants

Product: No data available.

Components:

 $\hbox{2-methoxy-1-methylethyl} \quad \hbox{EC 50 (Algae (Pseudokirchneriella subcapitata), 96 h):} > 1,000 \ \hbox{mg/l}$

acetate (OECD 201)

Ethanol (Ethyl alcohol) EC 50 (Chlorella vulgaris (Fresh water algae), 72 h): 275 mg/l (OECD

201)

isobutanol EC 50 (Algae (Pseudokirchneriella subcapitata), 72 h): 632 mg/l (OECD

201) Literature

EC 50 (Algae (Pseudokirchneriella subcapitata), 72 h): 1,799 mg/l

(OECD 201)

octamethylcyclotetrasilox

ane

EC 50 (Algae (Pseudokirchneriella subcapitata), 96 h): > 22 μg/l (US-

EPA-method)

EC 50 (Algae (Pseudokirchneriella subcapitata), 96 h): > 22 μg/l (US-

EPA-method)

Toxicity to microorganisms

Product: No data available.

Components:

2-methoxy-1-methylethyl

EC 10, activated sludge, 0.5 h, > 1,000 mg/l, OECD 209

acetate

Ethanol (Ethyl alcohol) IC 50, activated sludge, 3 h, > 1,000 mg/l, OECD 209, (analogy)

isobutanol No c

No data available.

octamethylcyclotetrasilox

No data available.

ane

Toxicity to soil dwelling organisms

Product: No data available.

Components:

2-methoxy-1-methylethyl No data available.

acetate

Ethanol (Ethyl alcohol) No data available. isobutanol No data available. octamethylcyclotetrasilox No data available.

ane



Version: 2.3

Issue Date: 06.03.2019 Last revised date: 12.02.2024 Supersedes Date: 22.12.2022

Toxicity to terrestrial organisms

Product: No data available.

Components:

2-methoxy-1-methylethyl

No data available.

acetate

Ethanol (Ethyl alcohol) No data available. isobutanol No data available. octamethylcyclotetrasilox No data available.

ane

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Components:

2-methoxy-1-methylethyl NOEC, Oryzias latipes, 14 d, 47.5 mg/l, OECD 204

acetate

LC 50, Oryzias latipes, 14 d, 63.5 mg/l, OECD 204 NOEC, Danio rerio, 120 h, 1,000 mg/l, OECD 212

Ethanol (Ethyl alcohol) isobutanol

No data available.

octamethylcyclotetrasilo

NOEC, Oncorhynchus mykiss, 93 d, 4.4 µg/l, US-EPA-method

xane

Aquatic Invertebrates

Product: No data available.

Components:

2-methoxy-1-methylethyl NOEC, Daphnia magna, 21 d, 100 mg/l, OECD 211 acetate

Ethanol (Ethyl alcohol)

EC 50, Daphnia magna, 21 d, > 100 mg/l, OECD 211 LC 50, Ceriodaphnia dubia, 10 d, 1,806 mg/l

NOEC, Ceriodaphnia dubia, 10 d, 9.6 mg/l LC 50, Daphnia magna, 2 d, 9,248 mg/l LC 50, Daphnia magna, 9 d, 454 mg/l NOEC, Daphnia magna, 9 d, 9.6 mg/l

isobutanol

NOEC, Daphnia magna, 21 d, 20 mg/l

octamethylcyclotetrasilo

xane

NOEC, Daphnia magna, 21 d, 15 µg/l, EPA OTS 797.1330

Lowest Observed Effect Concentration, Daphnia magna, 21 d, 15 µg/l,

EPA OTS 797.1330

EC 50, Daphnia magna, 21 d, > 15 μ g/l, EPA OTS 797.1330

EC 10, activated sludge, 0.5 h, > 1,000 mg/l, OECD 209

Toxicity to Aquatic Plants

Product: No data available.

Components:

2-methoxy-1-methylethyl NOEC (Algae (Pseudokirchneriella subcapitata), 96 h): 1,000 mg/l

(OECD 201)

acetate Ethanol (Ethyl alcohol)

No data available.

isobutanol NOEC (Algae (Pseudokirchneriella subcapitata), 72 h): 53 mg/l (OECD

201) Literature

NOEC (Algae (Pseudokirchneriella subcapitata), 96 h): < 22 µg/l (USoctamethylcyclotetrasilox

EPA-method) ane

Toxicity to microorganisms

2-methoxy-1-methylethyl

Product: No data available.

Components:

acetate

Ethanol (Ethyl alcohol) IC 50, activated sludge, 3 h, > 1,000 mg/l, OECD 209, (analogy)

isobutanol No data available. octamethylcyclotetrasilox No data available.

ane

13/19



Version: 2.3

Issue Date: 06.03.2019 Last revised date: 12.02.2024 Supersedes Date: 22.12.2022

Toxicity to soil dwelling organisms

Product: No data available.

Components:

2-methoxy-1-methylethyl

No data available.

acetate

Ethanol (Ethyl alcohol) No data available. isobutanol No data available. No data available.

octamethylcyclotetrasilox

ane

Toxicity to terrestrial organisms

Product: No data available.

Components:

2-methoxy-1-methylethyl

No data available.

acetate

Ethanol (Ethyl alcohol) No data available. isobutanol No data available. octamethylcyclotetrasilox No data available.

ane

12.2 Persistence and Degradability

Biodegradation

Product: No data available.

Components:

2-methoxy-1-methylethyl 83 %, 28 d, OECD 301 F. The product is easily biodegradable., aerobic

acetate

Ethanol (Ethyl alcohol) 84 %, 20 d, The product is easily biodegradable., aerobic

isobutanol 70 - 80 %, 28 d, OECD 301 D, The product is easily biodegradable.,

aerobic

octamethylcyclotetrasilox 3.7 %, 28 d, OECD 310, The product is not biodegradable., aerobic

ane

BOD/COD Ratio

Components:

Ethanol (Ethyl alcohol) 58 %

12.3 Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Components:

2-methoxy-1-methylethyl No data available.

acetate

Ethanol (Ethyl alcohol) No data available. isobutanol No data available. octamethylcyclotetrasilox No data available.

ane

Partition Coefficient n-octanol / water (log Kow)

Product: not measured

Components:

2-methoxy-1-methylethyl No data available.

acetate

Ethanol (Ethyl alcohol) -0.35, 20 °C

isobutanol 1, 25 °C, HPLC-Method, Literature

octamethylcyclotetrasilox 6.488, 25.1 °C, OECD 123

ane



Version: 2.3

Issue Date: 06.03.2019 Last revised date: 12.02.2024 Supersedes Date: 22.12.2022

12.4 Mobility in soil:

Product No data available.

Components:

2-methoxy-1-methylethyl

No data available.

acetate

Ethanol (Ethyl alcohol) No data available. isobutanol No data available. octamethylcyclotetrasilox No data available.

ane

12.5 Results of PBT and vPvB assessment:

Product No data available.

Components:

2-methoxy-1-methylethyl Non-classified vPvB substance,

acetate Non-classified PBT substance Ethanol (Ethyl alcohol) Non-classified vPvB substance,

Non-classified PBT substance

isobutanol No data available.

octamethylcyclotetrasiloxanePBT: persistent, bioaccumulative

and toxic substance. vPvB: very

persistent and very

bioaccumulative substance.

12.6 Other adverse effects:

Other hazards

Product: Do not allow to enter soil, waterways or waste water canal.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information: No data available.

Disposal methods: In accordance with local authority regulations, take to

special waste incineration plant

Contaminated Packaging: If empty contaminated containers are recycled or disposed

of, the receiver must be informed about possible hazards.

SECTION 14: Transport information

14.1 UN/ID No.

ADR : UN 1866
RID : UN 1866
IMDG : UN 1866
IATA : UN 1866

14.2 UN proper shipping name

ADR : RESIN SOLUTION
RID : RESIN SOLUTION



Version: 2.3

Issue Date: 06.03.2019 Last revised date: 12.02.2024 Supersedes Date: 22.12.2022

IMDG : RESIN SOLUTION

IATA : Resin solution

14.3 Transport hazard class(es)

ADR : 3
RID : 3
IMDG : 3
IATA : 3

14.4 Packing group

ADR

Packing group : III
Classification Code : F1
Hazard Identification Number : 30
Labels : 3
Tunnel restriction code : (D/E)

RID

Packing group : III
Classification Code : F1
Hazard Identification Number : 30
Labels : 3

IMDG

Packing group : III Labels : 3

EmS Code : F-E, S-E

Remarks : Stowage category A

IATA (Cargo aircraft only)

Packing instruction (cargo : 366

aircraft)

Packing instruction (LQ) : Y344
Packing group : III
Labels : 3

IATA (Passenger and cargo

aircraft)

Packing instruction : 355

(passenger aircraft)

Packing instruction (LQ) : Y344
Packing group : III
Labels : 3

14.5 Environmental hazards

ADR

Environmentally hazardous : no

RID

Environmentally hazardous : no

IMDG

Marine pollutant : no

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation



Version: 2.3

Issue Date: 06.03.2019 Last revised date: 12.02.2024 Supersedes Date: 22.12.2022

Product name: SILIKOFTAL® HTT

classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

EU Regulations

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I:

Classification	Lower-tier Requirements	Upper-tier
		Requirements
P5c. Flammable liquids	5,000 t	50,000 t

15.2 Chemical safety assessment:

No chemical safety assessment was carried out for this product.

International regulations

Montreal protocol

Not applicable

Stockholm convention

Not applicable

Rotterdam convention

Not applicable

Kyoto protocol

Not applicable

SECTION 16: Other information

Abbreviations and acronyms:

EH40 WEL: UK. EH40 Workplace Exposure Limits (WELs), as amended

EH40 WEL / STEL: Short Term Exposure Limit (STEL): EH40 WEL / TWA: Time Weighted Average (TWA):

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC -Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw -Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; EIGA -European Industrial Gases Association; ELx - Loading rate associated with x% response; EmS -Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory;



Version: 2.3 Issue Date: 06.03.2019 Last revised date: 12.02.2024

Supersedes Date: 22.12.2022

LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Key literature references and No data available. **sources for data:**

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

Classification according to Regulation (EC) No 1272/2008 as amended.	Classification procedure
Flammable liquids, Category 3	On basis of test data
Serious eye irritation, Category 2	On basis of test data
Specific Target Organ Toxicity - Single Exposure, Category 3	Calculation method

Wording of the statements in section 2 and 3

H225	Highly flammable liquid and vapor.
H226	Flammable liquid and vapor.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361f	Suspected of damaging fertility.
H410	Very toxic to aquatic life with long lasting effects.

Training information: Comply with national laws regulating employee instruction.

Revision Information

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Disclaimer:

This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.



Version: 2.3 Issue Date: 06.03.2019 Last revised date: 12.02.2024 Supersedes Date: 22.12.2022