

Version: 2.2

Issue Date: 15.03.2019 Last revised date: 30.08.2023 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:

SILIKOPON® EF

REACH Registration

No.:

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

Company Name : Evonik Operations GmbH

Rellinghauser Str. 1-11

45128 Essen Germany

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

E-mail : productsafety-cs@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

Health Hazards

Skin sensitizer Category 1 H317: May cause an allergic skin reaction.

Environmental Hazards



Version: 2.2

Issue Date: 15.03.2019 Last revised date: 30.08.2023 Supersedes Date: 22.12.2022

Chronic hazards to the aquatic Category 3 H412: Harmful to aquatic life with long lasting effects.

environment

2.2 Label Elements

Signal Words: Warning

Hazard Statement(s): H317: May cause an allergic skin reaction.

H412: Harmful to aquatic life with long lasting effects.

Precautionary Statements

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

P273: Avoid release to the environment.

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

protection.

Response: P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P333+P313: If skin irritation or rash occurs: Get medical

advice/attention.

P362+P364: Take off contaminated clothing and wash it before

reuse.

2.3 Other hazards

Contains epoxy-containing compounds. Observe manufacturer's instructions.

SECTION 3: Composition/information on ingredients

3.1 **Substances**

REACH Registration No.:

Chemical name	Concentrati on	CAS-No.	EC No.	 REACH Registration No.	M-Factor:	Notes
4,4'- Isopropylid enedicyclo hexanol, oligomeric reaction products with 1- chloro-2,3- epoxyprop ane	10 - <20%	30583-72-3	500-070-7	01- 211995949 5-22	No data available.	
octamethyl cyclotetrasi loxane	0.01 - <0.1%	556-67-2	209-136-7	01- 211952923 8-36	Aquatic Toxicity (Chronic): 10	##

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



Version: 2.2

Issue Date: 15.03.2019 Last revised date: 30.08.2023 Supersedes Date: 22.12.2022

volume.

This substance has workplace exposure limit(s).

This substance is listed as SVHC.

Classification

Chemical name	Classification		
4,4'- Isopropylidenedicyclohexa	Classification: Skin Sens.: 1: H317; Aquatic Chronic: 3: H412;	None.	
nol, oligomeric reaction products with 1-chloro-2,3-epoxypropane	Supplemental label information: None known.		
octamethylcyclotetrasiloxa ne	Classification: Flam. Liq.: 3: H226; Repr.: 2: H361f; Aquatic Chronic: 1: H410;	None.	
	Supplemental label information: None known.		

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 immediately with soap and

water In case of discomfort: Supply with medical care.

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

of discomfort: Supply with medical care.

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: Up to now no symptoms are known.

Hazards: No data available.

4.3 Indication of immediate medical attention and special treatment needed

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.



Version: 2.2

Issue Date: 15.03.2019 Last revised date: 30.08.2023 Supersedes Date: 22.12.2022

5.2 Special hazards arising from the In the event of fire the following can be released: - Carbon substance or mixture:

monoxide, carbon dioxide, silicon dioxide Under certain conditions of combustion traces of other toxic substances

cannot be excluded

5.3 Advice for firefighters

Special fire fighting procedures: No specific precautions.

Special protective equipment for fire-

fighters:

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

contained breathing apparatus.

SECTION 6: Accidental release measures

Personal precautions, protective

equipment and emergency procedures:

Use personal protective equipment.

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.

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: Avoid contact with skin and eyes. Do not inhale

> gases/vapours/aerosols.Provide good ventilation of working area (local exhaust ventilation if necessary). Use respiratory

protection during spraying.

Contact avoidance measures: No data available.

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



Version: 2.2

Issue Date: 15.03.2019

Last revised date: 30.08.2023 Supersedes Date: 22.12.2022

None of the components have assigned exposure limits.

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
4,4'- Isopropylidenedicyclohexanol, oligomeric reaction products with 1-chloro-2,3-epoxypropane	Workers	Dermal	Systemic, short-term; 1 mg/kg	Repeated dose toxicity
	General population	Inhalation	Systemic, long-term; 1.76 mg/m3	Repeated dose toxicity
	Workers	Inhalation	Systemic, long-term; 3.25 mg/m3	Repeated dose toxicity
	General population	Inhalation	Systemic, short-term; 1.76 mg/m3	Repeated dose toxicity
	Workers	Inhalation	Systemic, short-term; 3.52 mg/m3	Repeated dose toxicity
	General population	Dermal	Systemic, short-term; 0.5 mg/kg	Repeated dose toxicity
	General population	Dermal	Systemic, long-term; 0.5 mg/kg	
	General population	Oral	Systemic, long-term; 0.5 mg/kg	Repeated dose toxicity
	Workers	Dermal	Local, long-term; 21 µg/cm2	Skin Sensitisation
	General population	Dermal	Local, short-term; 21 µg/cm2	Skin Sensitisation
	Workers	Dermal	Local, short-term; 0.23 mg/cm2	Skin Sensitisation
	Workers	Dermal	Systemic, long-term; 1 mg/kg	Acute toxicity
	General population	Dermal	Local, long-term; 21 µg/cm2	Skin Sensitisation
	Workers	Eyes	Local effect;	No hazard identified
	General population	Eyes	Local effect;	No hazard identified
octamethylcyclotetrasiloxane	General population	Inhalation	Systemic, long-term; 13 mg/m3	Repeated dose toxicity
	Workers	Inhalation	Systemic, long-term; 73 mg/m3	Repeated dose toxicity
	Workers	Inhalation	Local, long-term; 73 mg/m3	Repeated dose toxicity
	General population	Inhalation	Local, long-term; 13 mg/m3	Repeated dose toxicity
	Workers	Eyes	Local effect;	No hazard identified
	General population	Eyes	Local effect;	No hazard identified
	General population	Oral	Systemic, long-term; 3.7 mg/kg	Repeated dose toxicity

PNEC-Values

Remarks: PNEC-Values

Critical component	Environmental	PNEC-Values	Remarks	
-	compartment			
4,4'- Isopropylidenedicyclohexanol, oligomeric reaction products with	Aquatic (freshwater)	11.5 µg/l		
1-chloro-2,3-epoxypropane				
	Aquatic (marine water)	1.15 μg/l		
	Soil	0.099 mg/kg		
	Sediment (marine water)	0.023 mg/kg		
	Sediment (freshwater)	0.229 mg/kg		
	Sewage treatment plant	100 mg/l		
octamethylcyclotetrasiloxane	Predator	41 mg/kg	Oral	
	Soil	0.54 mg/kg		
	Sediment (freshwater)	3 mg/kg		
	Aquatic (freshwater)	1.5 μg/l		
	Aquatic (marine water)	0.15 μg/l		



Version: 2.2

Issue Date: 15.03.2019 Last revised date: 30.08.2023 Supersedes Date: 22.12.2022

Sewage treatment plant	10 mg/l	
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 goggles

Hand Protection: Additional Information: gloves made of nitril (NBR), gloves

made of butyl (IIR)

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. Remove soiled or soaked clothing immediately. When using do not eat, drink or smoke. Use skin protective

preparation as preventive skin protection.

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

Physical state: liquid
Form: liquid

Color: Pale yellow

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: 117 °C

Method: DIN EN 22719

not measured

Auto-ignition temperature: not measured

Decomposition Temperature: not measured

pH: Not applicable

Viscosity

Dynamic viscosity: 1,000 - 2,000 mPa.s at 25 °C

Method: DIN 53015

Kinematic viscosity: 833 - 1667 mm2/s at 25 °C,

Method: calculated

Explosive limit - lower:



Version: 2.2

Issue Date: 15.03.2019 Last revised date: 30.08.2023 Supersedes Date: 22.12.2022

Solubility(ies)

Solubility in Water: Insoluble

Solubility (other): not measured

Partition coefficient (n-octanol/water): not measured

Vapor pressure: not measured

Relative density: not measured

Density: 1.0 - 1.2 g/cm3 at 25 °C

Method: DIN 51757

Relative vapor density: not measured

9.2 Other information

Explosive properties:not measuredOxidizing properties:not oxidizingSelf-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: Hydrolysis may result in formation of methanol depending

on the specific conditions of use.

10.4 Conditions to avoid: None with proper storage and handling.

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: LD 50, ATEmix, > 5,000 mg/kg

Components:

4,4'- LD 50, Rat, Female, > 2,000 mg/kg, OECD 425



Version: 2.2

Issue Date: 15.03.2019

Last revised date: 30.08.2023 Supersedes Date: 22.12.2022

Isopropylidenedicyclohex anol, oligomeric reaction products with 1-chloro-2,3-epoxypropane

octamethylcyclotetrasilox LD 50, Rat, Male, > 5,000 mg/kg, OECD 401

ane

Dermal

Product: LD 50, ATEmix, > 5,000 mg/kg

Components:

4,4'-LD 50, Rat, Female, Male, > 2,000 mg/kg, OECD 402 Not toxic after single exposure, No classification

Isopropylidenedicyclohex anol, oligomeric reaction products with 1-chloro-2,3-epoxypropane

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

ane

Inhalation

Product: LC 50, ATEmix, 4 h, > 40 mg/l, Vapour

Components:

4,4'-Vapour, Not toxic after single exposure, No data available.

Isopropylidenedicyclohex anol, oligomeric reaction products with 1-chloro-2.3-epoxypropane

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.

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

Repeated dose toxicity

Product: No data available.

Components:

4,4'-No data available.

Isopropylidenedicyclohex anol, oligomeric reaction products with 1-chloro-2.3-epoxypropane

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

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:

4.4'-Not irritating, OECD 404, Rabbit

Isopropylidenedicyclohex anol, oligomeric reaction products with 1-chloro-2,3-epoxypropane

octamethylcyclotetrasilox Not irritating, OECD 404, Rabbit

ane

Serious Eye Damage/Eye Irritation

Product: No data available.

Components:



Version: 2.2

Issue Date: 15.03.2019 Last revised date: 30.08.2023 Supersedes Date: 22.12.2022

4.4'-Not irritating, OECD 405, Rabbit

Isopropylidenedicyclohex anol, oligomeric reaction products with 1-chloro-2,3-epoxypropane

octamethylcyclotetrasilox Not irritating, OECD 405, Rabbit

Respiratory or Skin Sensitization

Product: No data available.

Components:

4,4'-Local Lymph Node Assay (LLNA), OECD 429, Mouse, May cause sensitization by skin contact.

Isopropylidenedicyclohex anol, oligomeric reaction products with 1-chloro-2,3-epoxypropane

octamethylcyclotetrasilox

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:

4.4'-No data available.

Isopropylidenedicyclohex anol, oligomeric reaction products with 1-chloro-2,3-epoxypropane

octamethylcyclotetrasilox

ane

No data available.

Germ Cell Mutagenicity

No data available.

In vitro

Product: No data available.

Components:

4,4'-Ames test, OECD 471:, negative

Isopropylidenedicyclohex anol, oligomeric reaction products with 1-chloro-2,3-epoxypropane

octamethylcyclotetrasilox

ane

Ames test, OECD 471:, negative

Chromosomal aberration, OECD 473: , negative gene mutation test, OECD 476: , negative

In vivo

Product: No data available.

Components:

4,4'-No data available.

Isopropylidenedicyclohex anol, oligomeric reaction products with 1-chloro-2,3-epoxypropane

octamethylcyclotetrasilox

ane

Micronucleus test, OECD 474, Inhalation - vapor, Rat, negative Chromosomal aberration, OECD 478, Oral, Rat, negative

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

Male, negative



Version: 2.2

Issue Date: 15.03.2019 Last revised date: 30.08.2023 Supersedes Date: 22.12.2022

Reproductive toxicity

Product: No data available.

Components:

4,4'- No data available.

Isopropylidenedicyclohex anol, oligomeric reaction products with 1-chloro-2.3-epoxypropane

ane damaging fertility.

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

Components:

4,4'- No data available.

Isopropylidenedicyclohex anol, oligomeric reaction products with 1-chloro-2,3-epoxypropane

octamethylcyclotetrasilox No data available.

ane

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Components:

4,4'- No data available.

Isopropylidenedicyclohex anol, oligomeric reaction products with 1-chloro-2,3-epoxypropane

octamethylcyclotetrasilox No data available.

ane

Aspiration Hazard

Product: Not classified

Components:

4,4'- Not classified

Isopropylidenedicyclohex anol, oligomeric reaction products with 1-chloro-2,3-epoxypropane

octamethylcyclotetrasilox Not classified

ane

11.2 Information on other hazards

Other information

Product: No data available.

SECTION 12: Ecological information

12.1 Toxicity:

Acute hazards to the aquatic environment:



Version: 2.2

Issue Date: 15.03.2019 Last revised date: 30.08.2023 Supersedes Date: 22.12.2022

Fish

Product: No data available.

Components:

4,4'- LC 50, Oncorhynchus mykiss, 96 h, Approximate, 11.5 mg/l OECD 203

Isopropylidenedicyclohe xanol, oligomeric reaction products with 1-

chloro-2,3epoxypropane

octamethylcyclotetrasilo

xane

LC 50, Oncorhynchus mykiss, 96 h, > 22 μ g/l US-EPA-method NOEC, Oncorhynchus mykiss, 96 h, 22 μ g/l US-EPA-method

Aquatic Invertebrates

Product: No data available.

Components:

4,4'Isopropylidenedicyclohe

xanol, oligomeric

reaction products with 1-

chloro-2,3epoxypropane

octamethylcyclotetrasilo

xane

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

EC 50. Daphnia magna, 48 h, 18.3 mg/l OECD 202

NOEC, Daphnia magna, 48 h, 10 mg/l OECD 202

Toxicity to Aquatic Plants

Product: No data available.

Components:

4,4'- EC 50 (Algae (Pseudokirchneriella subcapitata), 72 h): > 100 mg/l Isopropylidenedicyclohex (OECD 201)

anol, oligomeric reaction products with 1-chloro-2,3-epoxypropane

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:

4,4'- EC 50, activated sludge, 3 h, > 1,000 mg/l, OECD 209

Isopropylidenedicyclohex anol, oligomeric reaction products with 1-chloro-2,3-epoxypropane

octamethylcyclotetrasilox No data available.

ane

Toxicity to soil dwelling organisms

Product: No data available.

Components:

4,4'- No data available.

Isopropylidenedicyclohex anol, oligomeric reaction products with 1-chloro-2,3-epoxypropane

octamethylcyclotetrasilox No data available.

ane

Toxicity to terrestrial organisms



Version: 2.2

Issue Date: 15.03.2019 Last revised date: 30.08.2023 Supersedes Date: 22.12.2022

Product: No data available.

Components:

4,4'-No data available.

Isopropylidenedicyclohex anol, oligomeric reaction products with 1-chloro-2.3-epoxypropane

octamethylcyclotetrasilox No data available.

ane

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Components:

4.4'-NOEC, Oncorhynchus mykiss, 96 d, 7.5 mg/l

Isopropylidenedicyclohe

xanol, oligomeric

reaction products with 1-

chloro-2,3epoxypropane

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

xane

Aquatic Invertebrates

Product: No data available.

Components:

4.4'-NOEC, Daphnia magna, 48 d, 10 mg/l

Isopropylidenedicyclohe xanol, oligomeric reaction products with 1-

chloro-2,3epoxypropane

octamethylcyclotetrasilo

xane Lowest Observed Effect Concentration, Daphnia magna, 21 d, 15 µg/l, EPA OTS 797.1330

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

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

Toxicity to Aquatic Plants

Product: No data available.

Components:

4,4'-NOEC (Algae (Pseudokirchneriella subcapitata), 72 h): > 100 mg/l

(OECD 201)

Isopropylidenedicyclohex anol, oligomeric reaction products with 1-chloro-2.3-epoxypropane

octamethylcyclotetrasilox ane

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

EPA-method)

Toxicity to microorganisms

Product: No data available.

Components:

4,4'-EC 50, activated sludge, 3 h, > 1,000 mg/l, OECD 209

Isopropylidenedicyclohex anol, oligomeric reaction products with 1-chloro-2,3-epoxypropane

octamethylcyclotetrasilox No data available.

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Version: 2.2

Issue Date: 15.03.2019 Last revised date: 30.08.2023 Supersedes Date: 22.12.2022

Toxicity to soil dwelling organisms

Product: No data available.

Components:

4,4'- No data available.

Isopropylidenedicyclohex anol, oligomeric reaction products with 1-chloro-2.3-epoxypropane

octamethylcyclotetrasilox No data available.

ane

Toxicity to terrestrial organisms

Product: No data available.

Components:

4,4'- No data available.

Isopropylidenedicyclohex anol, oligomeric reaction products with 1-chloro-2,3-epoxypropane

octamethylcyclotetrasilox No data available.

ane

12.2 Persistence and Degradability

Biodegradation

Product: No data available.

Components:

4,4'- 0 %, 28 d, OECD 301 D, The product is not biodegradable., aerobic

Isopropylidenedicyclohex anol, oligomeric reaction products with 1-chloro-2,3-epoxypropane

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

ane

12.3 Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Components:

4,4'- No data available.

Isopropylidenedicyclohex anol, oligomeric reaction products with 1-chloro-2.3-epoxypropane

octamethylcyclotetrasilox No data available.

ane

Partition Coefficient n-octanol / water (log Kow)

Product: not measured

Components:

4,4'- 3.84

Isopropylidenedicyclohex anol, oligomeric reaction products with 1-chloro-2,3-epoxypropane

octamethylcyclotetrasilox 6.488, 25.1 °C, OECD 123

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Version: 2.2

Issue Date: 15.03.2019 Last revised date: 30.08.2023 Supersedes Date: 22.12.2022

12.4 Mobility in soil:

Product No data available.

Components:

4,4'- No data available.

Isopropylidenedicyclohexano I, oligomeric reaction products with 1-chloro-2,3-

epoxypropane

octamethylcyclotetrasiloxanblo data available.

12.5 Results of PBT and vPvB assessment:

Product No data available.

Components:

4,4'- No data available.

Isopropylidenedicyclohexano I, oligomeric reaction

products with 1-chloro-2,3-

epoxypropane

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.

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good



Version: 2.2 Issue Date: 1

Issue Date: 15.03.2019 Last revised date: 30.08.2023 Supersedes Date: 22.12.2022

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

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: Not applicable

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:

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; 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



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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:

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.

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