

Version: 2.2 Issue Date: 12.03.2019 Last revised date: 06.04.2022 Supersedes Date: 23.03.2021

SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended

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

1.1 Product identifier

Product name: DYNOL™ 980

Chemical name: modified polyether-siloxane

UFI: F331-30U6-800C-F9Y0

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	ľ	Evonik Operations GmbH Rellinghauser Str. 1-11 45128 Essen Germany
Telephone	: -	+49 201 173 01
Fax	: -	+49 201 173 3000
E-mail	: p	productsafety-cs@evonik.com

1.4 Emergency telephone number:

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

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

Health Hazards

Acute toxicity (Inhalation - dust and mist)	Category 4	H332: Harmful if inhaled.
Serious eye damage Environmental Hazards	Category 1	H318: Causes serious eye damage.
Chronic hazards to the aquatic environment	Category 3	H412: Harmful to aquatic life with long lasting effects.



Product name: DYNOL[™] 980

2.2 Label Elements

Contains:

2,5,8,11-Tetramethyl-6-dodecyn-5,8-diol ethoxylate Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated

	Signal Words:	Danger
	Hazard Statement(s):	H332: Harmful if inhaled. H318: Causes serious eye damage. 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:	P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310: Immediately call a POISON CENTER or doctor/ physician.
3	Other hazards	D4/D5/D6 fulfills the screening criteria for PBT and vPvB substances. However, D4/D5/D6 does not behave like known PBT/vPvB substances. Field trials permit the scientific conclusion that D4/D5/D6 does not accumulate in the aquatic or terrestrial food chain.
		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 name:

modified polyether-siloxane

3.2 Mixtures

(Chemical name	Concentration	CAS-No.	EC No.	REACH	M-Factor:	Notes
					Registration		
					No.		

2.3



2,5,8,11- Tetramethyl-6- dodecyn-5,8- diol ethoxylate	50 - <100%	169117-72-0	605-540-6	-	No data available.	
Siloxanes and Silicones, di- Me, 3- hydroxypropyl Me, ethoxylated	25 - <50%	68937-54-2	614-822-8	-	No data available.	
octamethylcycl otetrasiloxane	0,01 - <0,025%	556-67-2	209-136-7	01- 2119529238- 36	Aquatic Toxicity (Acute): 10; Aquatic Toxicity (Chronic): 10	##

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

This substance has workplace exposure limit(s). ## This substance is listed as SVHC.

Classification

Chemical name	Classification	Notes
2,5,8,11-Tetramethyl-6- dodecyn-5,8-diol	Classification: Eye Dam.: 1: H318; Aquatic Chronic: 3: H412;	No data available.
ethoxylate	Supplemental label information: None known.	
	Specific concentration limit: None known.	
	Acute toxicity, oral: LD 50: > 2.000 mg/kg	
	Acute toxicity, inhalation: None known.	
	Acute toxicity, dermal: LD 50: > 2.000 mg/kg	
Siloxanes and Silicones, di-Me, 3-hydroxypropyl	Classification: Acute Tox.: 4: H332; Aquatic Chronic: 3: H412;	No data available.
Me, ethoxylated	Supplemental label information: None known.	
	Specific concentration limit: None known.	
	Acute toxicity, oral: LD 50: > 2.000 mg/kg	
	Acute toxicity, inhalation: :	
	Acute toxicity, dermal: None known.	
octamethylcyclotetrasiloxa ne	Classification: Flam. Liq.: 3: H226; Repr.: 2: H361f; Aquatic Chronic: 1: H410;	No data available.
	Supplemental label information: None known.	
	Specific concentration limit: None known.	
	Acute toxicity, oral: LD 50: > 5.000 mg/kg	
	Acute toxicity, inhalation: LC 50: 36 mg/l	



Product name: DYNOL[™] 980

Acute toxicity, dermal: LD 50: > 5.000 mg/kg

CLP: Regulation No. 1272/2008.

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

SECTION 4: First aid measures

4.1 Description of necessary first-aid measures

General information:	Remove soiled or soaked clothing immediately
Inhalation:	If inhalated remove from side of exposure to fresh air, seek medical advice.
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 and 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.
4.0 Most important symptoms and effect	a both coute and delayed

4.2 Most important symptoms and effects, both acute and delayed

Symptoms:	Risk of serious damage to eyes.
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.
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 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 combusition gases. Self- contained breathing apparatus.

SECTION 6: Accidental release measures



6.1 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.
6.3 Methods and material for containment and cleaning up:	Take up with absorbent material (eg sand, kieselguhr, acid binder, universal binder, sawdust). 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	e:

7.1 Precautions for safe handling

Technical measures (e.g. Local and general ventilation):	No data available.
Safe handling advice:	Provide good ventilation of working area (local exhaust ventilation if necessary).Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes.
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.Do not store together with oxidizing agents.Maximum storage temperature: < 60°C.
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

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
octamethylcyclotetrasiloxane	General population		Systemic, long-term; 13 mg/m3	Repeated dose toxicity



Product name: DYNOL[™] 980

Workers	Inhalation	Systemic, long-term; 73 mg/m3	Repeated dose toxicity
Workers	Inhalation	Local, long-term; 73 mg/m3	Repeated dose toxicity
General populat	ion Inhalation	Local, long-term; 13 mg/m3	Repeated dose toxicity
Workers	Eyes	Local effects;	No hazard identified
General populat	ion Eyes	Local effects;	No hazard identified
General populat	ion Oral	Systemic, long-term; 3,7 mg/kg	Repeated dose toxicity

PNEC-Values

Remarks: PNEC-Values

Critical component	Environmental compartment	PNEC-Values	Remarks
octamethylcyclotetrasiloxane	Predator	41 mg/kg	Oral
	Soil	0,54 mg/kg	
	Sewage treatment plant	10 mg/l	
	freshwater sediment	3 mg/kg	
	freshwater	1,5 μg/l	
	marine water sediment	0,3 mg/kg	
	marine water	0,15 µg/l	

8.2 Exposure controls

Appropriate Engineering Controls:

No data available.

Individual protection measures, such as personal protective equipment

Eye/face protection:	Tightly fitting safety goggles
Hand Protection:	Additional Information: The protective gloves to be worn must satisfy the specifications of Regulation (EU) 2016/425 and the resulting Standard EN374., Specific workplace situations must be considered separately. Material: Nitrile rubber. Break-through time: 480 min Glove thickness: 0,1 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

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Physical state:	liquid
Form:	liquid
Color:	Pale yellow
Odor:	Mild
Odor Threshold:	not measured
Freezing point:	< -20 °C



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	Boiling Point:	not measured	
	Flammability:	not measured	
	Upper/lower limit on flammability or explosive limits		
	Explosive limit - upper:	not measured	
	Explosive limit - lower:	not measured	
	Flash Point:	166 °C	
	Self Ignition Temperature:	not measured	
	Decomposition Temperature:	not measured	
	pH:	7 (25 °C)	
	Viscosity		
	Dynamic viscosity:	not measured	
	Kinematic viscosity:	not measured	
	Flow Time:	No data available.	
	Solubility(ies)		
	Solubility in Water:	Slightly Soluble	
	Solubility (other):	not measured	
	Dissolution Rate:	No data available.	
	Partition coefficient (n- octanol/water):	not measured	
	Dispersion Stability:	No data available.	
	Vapor pressure:	2,533 hPa (21 °C)	
	Relative density:	not measured	
	Density:	1,017 g/cm3 (25 °C)	
	Bulk density:	No data available.	
	Relative vapor density:	not measured	
9.2 O	Other information		
	Explosive properties:	not measured	
	Oxidizing properties:	not oxidizing	
	Minimum ignition temperature:	not measured	
	Metal Corrosion:	Not corrosive to metals	
	Evaporation Rate:	not measured	
SECT	ION 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	

irdous reactions: No hazardous reactions with proper storage and handling

None with proper storage and handling.

Conditions to avoid: None with proper storage and handling.

10.5 Incompatible Materials: Oxidizing agents.

10.6 Hazardous Decomposition Products:

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SECTION 11: Toxicological information



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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 (Acute toxicity estimate): 2.175 mg/kg	
Components: 2,5,8,11-Tetramethyl-6- dodecyn-5,8-diol	LD 50 (Rat) : > 2.000 mg/kg	
ethoxylate Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated	LD 50 (Rat) : > 2.000 mg/kg	
octamethylcyclotetrasilox ane	LD 50 (Rat, Male) : > 5.000 mg/kg	
Dermal		
Product: Components:	LD 50 (Acute toxicity estimate): 4.000 mg/kg	
2,5,8,11-Tetramethyl-6- dodecyn-5,8-diol ethoxylate	LD 50 (Rabbit) : > 2.000 mg/kg	
Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated	No data available.	
octamethylcyclotetrasilox ane	LD 50 (Rat, Female, Male) : > 5.000 mg/kg	
Inhalation		
Product: Components:	LC 50 (Acute toxicity estimate, 4 h): 2,57 mg/l Dusts, mists and fumes	
2,5,8,11-Tetramethyl-6- dodecyn-5,8-diol ethoxylate	Vapour, No data available. Dusts, mists and fumes, No data available.	
Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated	Vapour, No data available. LC 50 (Rat, 4 h): 1,08 mg/l Dusts, mists and fumes	
octamethylcyclotetrasilox ane	LC 50 (Rat, Female, Male, 4 h): 36 mg/l Vapour Dusts, mists and fumes, No data available.	
Repeated dose toxicity Product:	No data available.	
Components: 2,5,8,11-Tetramethyl-6- dodecyn-5,8-diol	No data available.	
ethoxylate Siloxanes and Silicones,	No data available.	8
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di-Me, 3-hydroxypropyl Me, ethoxylated octamethylcyclotetrasilox ane	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: Components:	No data available.
2,5,8,11-Tetramethyl-6- dodecyn-5,8-diol ethoxylate	(Rabbit): Not irritating
Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated	OECD 404 (Rabbit): Slightly irritating.
octamethylcyclotetrasilox ane	OECD 404 (Rabbit): Not irritating
Serious Eye Damage/Eye Irrita	ation
Product:	No data available.
Components: 2,5,8,11-Tetramethyl-6- dodecyn-5,8-diol ethoxylate	(Rabbit): Risk of serious damage to eyes.
Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated	OECD 405 (Rabbit): Not irritating
octamethylcyclotetrasilox ane	OECD 405 (Rabbit): Not irritating
Respiratory or Skin Sensitizat	ion
Product:	No data available.
Components: 2,5,8,11-Tetramethyl-6-	No data available.
dodecyn-5,8-diol ethoxylate	
Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated	Sensitization test (Guinea Pig): Not a skin sensitizer.
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:	
2,5,8,11-Tetramethyl-6- dodecyn-5,8-diol ethoxylate	No data available.
Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated	No data available.
octamethylcyclotetrasilox ane	No data available.

Germ Cell Mutagenicity

No data available.



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In vitro	
Product:	No data available.
Components:	Ne dete evellette
2,5,8,11-Tetramethyl-6- dodecyn-5,8-diol ethoxylate	No data available.
Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated	No data available.
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: 2,5,8,11-Tetramethyl-6- dodecyn-5,8-diol ethoxylate	No data available.
Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated	No data available.
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
Reproductive toxicity	
Product:	No data available.
Components: 2,5,8,11-Tetramethyl-6- dodecyn-5,8-diol ethoxylate	No data available.
Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated	No data available.
octamethylcyclotetrasilox ane	Suspected of damaging fertility or the unborn child. Suspected of damaging fertility.
Specific Target Organ Toxicity Product: Components:	- Single Exposure No data available.
2,5,8,11-Tetramethyl-6- dodecyn-5,8-diol ethoxylate	No data available.
Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated	No data available.
octamethylcyclotetrasilox ane	No data available.
Specific Target Organ Toxicity Product:	- Repeated Exposure No data available.
Components:	
2,5,8,11-Tetramethyl-6- dodecyn-5,8-diol ethoxylate	No data available.
Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated	No data available.
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octamethylcyclotetrasilox ane	No data available.
Aspiration Hazard	
Product:	Not classified
Components: 2,5,8,11-Tetramethyl-6- dodecyn-5,8-diol ethoxylate	Not classified
Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated	Not classified
octamethylcyclotetrasilox ane	Not classified

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:	
2,5,8,11-Tetramethyl-6- dodecyn-5,8-diol ethoxylate	No data available.
Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated	No data available.
octamethylcyclotetrasilox ane	No data available.
Other hazards	
Product:	The properties of this product which are hazardous to health have been calculated as per regulation (EC) No. 1272/2008. See section 2 "Hazards Identification".;

SECTION 12: Ecological information

12.1 Toxicity:

Acute hazards to the aquatic environment:

Fish Product: Components:	LC 50 (Danio rerio, 96 h): 18,1 mg/l
2,5,8,11-Tetramethyl-6- dodecyn-5,8-diol ethoxylate	No data available.
Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated	LC 50 (Danio rerio, 96 h): 18,1 mg/l
octamethylcyclotetrasilo xane	LC 50 (Oncorhynchus mykiss, 96 h): > 22 μg/l NOEC (Oncorhynchus mykiss, 96 h): 22 μg/l



Aquatic Invertebrates Product: Components: 2,5,8,11-Tetramethyl-6- dodecyn-5,8-diol ethoxylate Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated octamethylcyclotetrasilo xane	EC 50 (Daphnia magna, 48 h): 28,3 mg/l No data available. EC 50 (Daphnia magna, 48 h): 28,3 mg/l NOEC (Daphnia magna, 48 h): 15 μg/l EC 50 (Daphnia magna, 48 h): > 15 μg/l
Toxicity to Aquatic Plants Product:	EC 50 (Desmodesmus subspicatus (green algae), 72 h): 28,2 mg/l EC 50 (Desmodesmus subspicatus (green algae), 72 h): 152,2 mg/l
Components: 2,5,8,11-Tetramethyl-6- dodecyn-5,8-diol ethoxylate	No data available.
Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated	EC 50 (Desmodesmus subspicatus (green algae), 72 h): 28,2 mg/l EC 50 (Desmodesmus subspicatus (green algae), 72 h): 152,2 mg/l
octamethylcyclotetrasilox ane	EC 50 (Algae (Pseudokirchneriella subcapitata), 96 h): > 22 μ g/l (US-EPA-method) EC 50 (Algae (Pseudokirchneriella subcapitata), 96 h): > 22 μ g/l (US-EPA-method)
Toxicity to microorganisms Product:	No data available.
Components: 2,5,8,11-Tetramethyl-6- dodecyn-5,8-diol ethoxylate	No data available.
Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated	No data available.
octamethylcyclotetrasilox ane	No data available.
Chronic hazards to the aqua	atic environment:
Fish Product:	No data available.
Components: 2,5,8,11-Tetramethyl-6- dodecyn-5,8-diol ethoxylate	No data available.
Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated	No data available.
octamethylcyclotetrasilo xane	NOEC (Oncorhynchus mykiss, 93 d): 4,4 µg/I (US-EPA-method)
Aquatic Invertebrates Product: Components:	No data available.
2,5,8,11-Tetramethyl-6- dodecyn-5,8-diol ethoxylate	No data available.



Siloxanes and Silicones, di-Me, 3-hydroxypropyl	No data available.
Me, ethoxylated 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 μg/l (EPA OTS 797.1330)
Toxicity to Aquatic Plants Product:	No data available.
Components: 2,5,8,11-Tetramethyl-6- dodecyn-5,8-diol	No data available.
ethoxylate Siloxanes and Silicones, di-Me, 3-hydroxypropyl	No data available.
Me, ethoxylated octamethylcyclotetrasilox ane	NOEC (Algae (Pseudokirchneriella subcapitata), 96 h): < 22 μg/l (US- EPA-method)
Toxicity to microorganisms	
Product: Components:	No data available.
2,5,8,11-Tetramethyl-6- dodecyn-5,8-diol ethoxylate	No data available.
Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated	No data available.
octamethylcyclotetrasilox	No data available.
12.2 Persistence and Degradability	/
Biodegradation Product: Components:	No data available.
2,5,8,11-Tetramethyl-6- dodecyn-5,8-diol ethoxylate	No data available.
Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated	No data available.
octamethylcyclotetrasilox ane	3,7 % (28 d, OECD 310) The product is not biodegradable., aerobic
BOD/COD Ratio	
Product: Components:	No data available.
2,5,8,11-Tetramethyl-6- dodecyn-5,8-diol ethoxylate	No data available.
Siloxanes and Silicones, di-Me, 3-hydroxypropyl	No data available.
Me, ethoxylated octamethylcyclotetrasilox	No data available.

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octamethylcyclotetrasilox No data available.



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12.3 Bioaccumulative potential

Bioconcentration Factor (BC Product: Components:	F) No data available.
2,5,8,11-Tetramethyl-6- dodecyn-5,8-diol ethoxylate	No data available.
Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated	No data available.
octamethylcyclotetrasilox ane	No data available.
Partition Coefficient n-octan	ol / water (log Kow)
Product:	Log Kow: not measured
Components:	
2,5,8,11-Tetramethyl-6- dodecyn-5,8-diol ethoxylate	No data available.
Siloxanes and Silicones,	No data available.

Siloxanes and Silicones, No data available. di-Me, 3-hydroxypropyl Me, ethoxylated octamethylcyclotetrasilox Log Kow: 6,488 25,1 °C (OECD 123) ane

12.4 Mobility in soil:

Product No data available. Components: 2,5,8,11-Tetramethyl-6-No data available. dodecyn-5,8-diol ethoxylate Siloxanes and Silicones, di-No data available. Me, 3-hydroxypropyl Me, ethoxylated octamethylcyclotetrasiloxanblo data available.

12.5 Results of PBT and vPvB assessment:

Product

No data available.

Components:

2,5,8,11-Tetramethyl-6dodecyn-5,8-diol ethoxylate Non-classified PBT substance Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated octamethylcyclotetrasiloxane/PvB: very persistent and very bioaccumulative substance. PBT: persistent, bioaccumulative and toxic substance.

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:	



2,5,8,11-Tetramethyl-6- No data available. dodecyn-5,8-diol ethoxylate Siloxanes and Silicones, di-No data available. Me, 3-hydroxypropyl Me, ethoxylated octamethylcyclotetrasiloxan**b**lo data available.

12.7 Other adverse effects:

Other hazards Product:

The product is classified as slightly hazardous to waters (according to the German Regulation on the Classification of Substances Hazardous to Waters (WwSV). 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

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

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use:



Chemical name	CAS-No.	Concentration	The packaging shall be visibly, legibly and indelibly marked as follows:
octamethylcyclotetrasilox ane	556-67-2		none

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.

SECTION 16: Other information

Abbreviations and acronyms:

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; AGW - Occupational exposure limit; ASTM - American Society for Testing and Materials: AwSV - Ordinance on facilities for handling substances that are hazardous to water; BSB - Biochemical oxygen demand; c.c. - closed cup; CAS - Chemical Abstract Services; CESIO - European Committee of Organic Surfactants and their Intermediates; CSB - Chemical oxygen demand; DMEL - Derived minimum effect level; DNEL - Derived no effect level; EbC50 - median concentration in terms of reduction of growth; EC -Effective concentration; EINECS - European Inventory of Existing Commercial Chemical Substances; EN - European norm; ErC50 - median concentration in terms of reduction of growth rate; GGVSEB - German ordinance for road, rail and inland waterway transportation of dangerous goods; GGVSee - German ordinance for sea transportation of dangerous goods; GLP - Good Laboratory Practice: GMO - Genetic Modified Organism: IATA - International Air Transport Association: ICAO - International Civil Aviation Organization: IMDG - International Maritime Dangerous Goods: ISO - International Organization For Standardization: LD/LC lethal dosis/concentration: LOAEL - Lowest observed adverse effect level: LOEL - Lowest observed effect level; M-Factor - multiplying factor; NOAEL - No observed adverse effect level; NOEC - no observed effect concentration; NOEL - no observed effect level; o.c. - open cup; OECD - Organisation for Economic Cooperation and Development; OEL - Occupational Exposure Limit; PBT - Persistent, bioaccumulative, toxic; PNEC - Predicted no effect concentration; REACH - REACH registration; RID - Convention concerning International Carriage by Rail; SVHC - Substances of Very High Concern; TA - Technical Instructions; **TRGS** - Technical Rules for Hazardous Substances; **vPvB** - very persistent, very bioaccumulative; WGK - Water Hazard Class

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
Acute toxicity, Category 4 Inhalation - dust and mist	Calculation method
Serious eye damage, Category 1	On basis of test data
Chronic hazards to the aquatic environment, Category 3	On basis of test data



Wording of the H-statements in section 2 and 3

H226	Flammable liquid and vapor.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H361	Suspected of damaging fertility or the unborn child.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

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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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