

# SAFETY DATA SHEET

According to REACH etc. (Amendment etc.) (EU Exit) Regulations  
2019



## **gigasept® FF (new)      No Change Service!**

Version  
05.00

Revision Date:  
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### **SECTION 1: Identification of the substance/mixture and of the company/undertaking**

#### **1.1 Product identifier**

Trade name : gigasept® FF (new)  
Unique Formula Identifier (UFI) : XN12-708R-P00J-0HMW

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

Use of the Sub-stance/Mixture : Disinfectants  
  
Recommended restrictions on use : Restricted to professional users.

#### **1.3 Details of the supplier of the safety data sheet**

Producer : Schülke & Mayr GmbH  
Robert-Koch-Str. 2  
  
22851 Norderstedt  
Germany  
Telephone: +49 (0)40/ 52100-0  
Telefax: +49 (0)40/ 52100318  
mail@schuelke.com  
www.schuelke.com

Supplier : Schülke & Mayr UK Ltd.  
Cygnet House  
1, Jenkin Road, Meadowhall  
  
Sheffield S9 1AT  
United Kingdom  
Telephone: +44 114 254 35 00  
Telefax: +44 114 254 35 01  
mail.uk@schulke.com

E-mail address of person responsible for the SDS/Contact person : Application Specialists  
+49 (0)40/ 521 00 666  
AD@schuelke.com

#### **1.4 Emergency telephone number**

Emergency telephone number : Carechem 24 International:+44 1235 239670

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008) as amended by The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019)**

Acute toxicity, Category 4	H302: Harmful if swallowed.
Acute toxicity, Category 4	H332: Harmful if inhaled.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Specific target organ toxicity - single exposure, Category 2	H371: May cause damage to organs if swallowed.
Specific target organ toxicity - single exposure, Category 2	H371: May cause damage to organs if inhaled.

#### 2.2 Label elements

**Labelling (REGULATION (EC) No 1272/2008) as amended by The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019)**

Hazard pictograms :



Signal word : Danger

Hazard statements : H302 + H332 Harmful if swallowed or if inhaled.  
H318 Causes serious eye damage.  
H371 May cause damage to organs.

Precautionary statements :

#### **Prevention:**

P260 Do not breathe vapours.  
P280 Wear eye protection/ face protection.

#### **Response:**

P310 Immediately call a POISON CENTER/ doctor.  
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.  
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.

#### **Disposal:**

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P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

Reaction product of DMO-THF, ethanol and water

2-(2-hexyloxyethoxy)ethanol

Poly(oxy-1,2-ethanediyl), .alpha.-undecyl-.omega.-hydroxy-, branched and linear

### **Additional Labelling**

The product is classified in accordance with Annex I (2.6.4.5) to Regulation (EC) 1272/2008.

### **2.3 Other hazards**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## **SECTION 3: Composition/information on ingredients**

### **3.2 Mixtures**

Chemical nature : Solution of the following substances with harmless additives.

#### **Components**

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Reaction product of DMO-THF, ethanol and water	- - - 942-851-9 - - - 01-2120763992-41-0000	Acute Tox. 4; H302 Acute Tox. 4; H332 Eye Irrit. 2; H319 STOT SE 2; H371 STOT SE 2; H371	>= 90 - <= 100
2-(2-hexyloxyethoxy)ethanol	112-59-4 203-988-3 603-175-00-7 01-2119945815-28-XXXX	Acute Tox. 4; H312 Eye Dam. 1; H318	>= 1 - < 3
Poly(oxy-1,2-ethanediyl), .alpha.-undecyl-.omega.-hydroxy-, branched and linear	127036-24-2 - - - - - - - - -	Eye Dam. 1; H318	>= 1 - < 3

For explanation of abbreviations see section 16.

### **Other information**

REACTION PRODUCT OF DMO-THF, CORRESPONDS TO Succindialdehyde (638-37-9), 2,5-Dimethoxytetrahydrofuran (696-59-3), Ethanol (64-17-5), Methanol (67-56-1), water (7732-18-5)

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### **SECTION 4: First aid measures**

#### **4.1 Description of first aid measures**

- General advice : Take off all contaminated clothing immediately.
- If inhaled : Move the victim to fresh air and keep him calm.  
No artificial respiration, mouth-to-mouth or mouth to nose. Use suitable instruments/apparatus.  
If symptoms persist, call a physician.
- In case of skin contact : Wash off immediately with plenty of water.  
If symptoms persist, call a physician.
- In case of eye contact : In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
If eye irritation persists, consult a specialist.
- If swallowed : Do NOT induce vomiting.  
Clean mouth with water and drink afterwards plenty of water.  
Call a physician immediately.

#### **4.2 Most important symptoms and effects, both acute and delayed**

- Symptoms : Treat symptomatically.
- Risks : Harmful if swallowed or if inhaled.  
Causes serious eye damage.  
May cause damage to organs.

#### **4.3 Indication of any immediate medical attention and special treatment needed**

- Treatment : For specialist advice physicians should contact the Poisons Information Service.
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### **SECTION 5: Firefighting measures**

#### **5.1 Extinguishing media**

- Suitable extinguishing media : Dry powder  
Foam  
Water spray jet  
Carbon dioxide (CO<sub>2</sub>)
- Unsuitable extinguishing media : Do NOT use water jet.

#### **5.2 Special hazards arising from the substance or mixture**

- Specific hazards during fire-fighting : No information available.
- Hazardous combustion prod- : No hazardous combustion products are known
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### **5.3 Advice for firefighters**

Special protective equipment : In the event of fire, wear self-contained breathing apparatus.  
for firefighters

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## **SECTION 6: Accidental release measures**

### **6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Ensure adequate ventilation.  
Use personal protective equipment.

### **6.2 Environmental precautions**

Environmental precautions : Avoid subsoil penetration.  
Do not flush into surface water or sanitary sewer system.

### **6.3 Methods and material for containment and cleaning up**

Methods for cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).  
Soak up with inert absorbent material (e.g. sand, silica gel,  
acid binder, universal binder, sawdust).

### **6.4 Reference to other sections**

see Section 8 + 13

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## **SECTION 7: Handling and storage**

### **7.1 Precautions for safe handling**

Advice on safe handling : Provide sufficient air exchange and/or exhaust in work rooms.  
Wear personal protective equipment.

Advice on protection against fire and explosion : No special protective measures against fire required.

Hygiene measures : When using do not eat, drink or smoke. Wash thoroughly after  
handling.

### **7.2 Conditions for safe storage, including any incompatibilities**

Requirements for storage areas and containers : Store at room temperature in the original container. Keep at  
temperature not exceeding 25 °C.

Further information on storage conditions : Recommended storage temperature: 5 - 25°C Keep away  
from heat. Keep away from direct sunlight.

Advice on common storage : No materials to be especially mentioned.  
Keep away from food and drink.

### **7.3 Specific end use(s)**

Specific use(s) : none

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

#### Derived No Effect Level (DNEL):

Substance name	End Use	Exposure routes	Potential health effects	Value
Reaction product of DMO-THF, ethanol and water	Workers	Inhalation	Acute local effects	520 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	260 mg/m <sup>3</sup>
	Workers	Inhalation	Acute systemic effects	520 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term systemic effects	260 mg/m <sup>3</sup>
	Workers	Skin contact	Acute systemic effects	40 mg/kg
	Workers	Skin contact	Long-term systemic effects	40 mg/kg
2-(2-hexyloxyethoxy)ethanol	Workers	Skin contact	Long-term systemic effects	50 mg/kg
	Workers	Inhalation	Long-term systemic effects	16.3 mg/m <sup>3</sup>

#### Predicted No Effect Concentration (PNEC):

Substance name	Environmental Compartment	Value
Reaction product of DMO-THF, ethanol and water	Fresh water	0.011 mg/l
	Marine water	0.0011 mg/l
	Effects on waste water treatment plants	25 mg/l
	Fresh water sediment	1 mg/kg
	Marine sediment	0.1 mg/kg
	Soil	1 mg/kg
2-(2-hexyloxyethoxy)ethanol	Fresh water	1.963 mg/l
	Marine water	0.1986 mg/l
	Intermittent use/release	1 mg/l
	Effects on waste water treatment plants	10 mg/l
	Fresh water sediment	10.7 mg/kg
	Marine sediment	1.07 mg/kg
	Soil	0.02 mg/kg

### 8.2 Exposure controls

#### Personal protective equipment

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

Hand protection  
Directive : The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374

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	derived from it.
Remarks	: Splash protection: disposable nitrile rubber gloves e.g. Dermatril (layer thickness: 0.11 mm) made by KCL or gloves from other manufacturers offering the same protection. Prolonged contact: Nitrile rubber gloves e.g. Camatril (>480 Min., layer thickness: 0,40 mm) or butyl rubber gloves e.g. Butoject (>480 Min., layer thickness: 0,70 mm) made by KCL or gloves from other manufacturers offering the same protection.
Skin and body protection	: Choose body protection according to the amount and concentration of the dangerous substance at the work place. Wear as appropriate: Chemical resistant apron Boots
Respiratory protection	: No personal respiratory protective equipment normally required. Ensure adequate ventilation, especially in confined areas. This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation.
Protective measures	: Avoid contact with skin and eyes. Do not breathe vapour.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance	: liquid
Colour	: green
Odour	: characteristic
Odour Threshold	: not determined
pH	: 6.3 - 6.6 (20 °C) Concentration: 100 %
Melting point/freezing point	: ca. -24 °C Method: Bridging principle "Substantially similar mixtures".
Decomposition temperature	No data available
Boiling point/boiling range	: ca. 90 °C
Flash point	: 38.5 °C Method: DIN 51755 Part 1
Evaporation rate	: No data available
Upper explosion limit / Upper	: No data available

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flammability limit

Lower explosion limit / Lower  
flammability limit : No data available

Vapour pressure : ca. 39 hPa (20 °C)  
Method: Bridging principle "Substantially similar mixtures".

Relative vapour density : No data available

Density : ca. 1.01 g/cm<sup>3</sup> (20 °C)

Solubility(ies)  
Water solubility : completely soluble (15 °C)

Partition coefficient: n-  
octanol/water : Not applicable

Auto-ignition temperature : ca. 455 °C  
Method: Bridging principle "Substantially similar mixtures".

Viscosity  
Viscosity, dynamic : ca. 4.5 mPa\*s  
Method: ISO 3219

Explosive properties : Not explosive  
Method: Bridging principle "Substantially similar mixtures".

Oxidizing properties :  
Method: Bridging principle "Substantially similar mixtures".  
The substance or mixture is not classified as oxidizing.

### 9.2 Other information

Flammability (liquids) : Does not sustain combustion.

Metal corrosion rate : Not corrosive to metals

Self-ignition : ca.  
455 °C  
Method: Bridging principle "Substantially similar mixtures".

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

The product is chemically stable.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : None reasonably foreseeable.



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### 10.4 Conditions to avoid

Conditions to avoid : Extremes of temperature and direct sunlight.

### 10.5 Incompatible materials

Materials to avoid : Strong acids and strong bases

### 10.6 Hazardous decomposition products

None reasonably foreseeable.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Harmful if swallowed or if inhaled.

#### Product:

Acute oral toxicity : LD50 (Rat): > 300 - 2,000 mg/kg  
Assessment: Harmful if swallowed.  
Remarks: The following toxicological data shown are those obtained from tests on products of similar composition.

Acute inhalation toxicity : LC50 (Rat): ca. 2 mg/l  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 436  
Assessment: Harmful if inhaled.  
Remarks: The toxicological data has been taken from products of similar composition.

Acute toxicity estimate: 11.71 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2,000 mg/kg  
Method: Calculation method

Acute toxicity (other routes of administration) : LD50 intravenous (Rat): 363 mg/kg  
Remarks: The following toxicological data shown are those obtained from tests on products of similar composition.

#### Components:

#### **Reaction product of DMO-THF, ethanol and water:**

Acute oral toxicity : LD50 (Rat): > 300 - 2,000 mg/kg  
Assessment: Harmful if swallowed.  
Remarks: The toxicological data has been taken from products of similar composition.

Acute inhalation toxicity : LC50 (Rat): 2 mg/l  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 436

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Assessment: The component/mixture is moderately toxic after short term inhalation.

Acute dermal toxicity : Remarks: No data available

### **2-(2-hexyloxyethoxy)ethanol:**

Acute oral toxicity : LD50 (Rat, female): 3,487 mg/kg

Acute inhalation toxicity : LC0 (Rat): Exposure time: 8 h  
Test atmosphere: vapour  
Remarks: Due to the viscosity, this product does not present an aspiration hazard.

Acute dermal toxicity : Assessment: The component/mixture is moderately toxic after single contact with skin.

### **Poly(oxy-1,2-ethanediyl), .alpha.-undecyl-.omega.-hydroxy-, branched and linear:**

Acute oral toxicity : LD50: > 2,000 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : Remarks: No data available

### **Skin corrosion/irritation**

Not classified based on available information.

### **Components:**

#### **Reaction product of DMO-THF, ethanol and water:**

Result : No skin irritation  
Remarks : The toxicological data has been taken from products of similar composition.

### **2-(2-hexyloxyethoxy)ethanol:**

Result : No skin irritation

### **Poly(oxy-1,2-ethanediyl), .alpha.-undecyl-.omega.-hydroxy-, branched and linear:**

Species : Rabbit  
Result : No skin irritation

### **Serious eye damage/eye irritation**

Causes serious eye damage.

### **Components:**

#### **Reaction product of DMO-THF, ethanol and water:**

Result : Eye irritation  
Remarks : The toxicological data has been taken from products of similar composition.

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### **2-(2-hexyloxyethoxy)ethanol:**

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : Irreversible effects on the eye

### **Poly(oxy-1,2-ethanediyl), .alpha.-undecyl-.omega.-hydroxy-, branched and linear:**

Species : Rabbit  
Result : Irreversible effects on the eye

### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

Not classified based on available information.

#### **Respiratory sensitisation**

Not classified based on available information.

#### **Product:**

Species : Guinea pig  
Result : Did not cause sensitisation on laboratory animals.  
Remarks : The toxicological data has been taken from products of similar composition.

#### **Components:**

#### **Reaction product of DMO-THF, ethanol and water:**

Species : Guinea pig  
Result : Did not cause sensitisation on laboratory animals.  
Remarks : The toxicological data has been taken from products of similar composition.

### **2-(2-hexyloxyethoxy)ethanol:**

Species : Mouse  
Result : Did not cause sensitisation on laboratory animals.

### **Poly(oxy-1,2-ethanediyl), .alpha.-undecyl-.omega.-hydroxy-, branched and linear:**

Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Did not cause sensitisation on laboratory animals.

### **Germ cell mutagenicity**

Not classified based on available information.

#### **Product:**

Genotoxicity in vitro : Method: OECD Test Guideline 471  
Result: Not mutagenic in Ames Test

Method: OECD Test Guideline 476  
Result: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.  
Remarks: The toxicological data has been taken from prod-

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ucts of similar composition.

### **Components:**

#### **Reaction product of DMO-THF, ethanol and water:**

Genotoxicity in vitro : Method: OECD Test Guideline 471  
Result: Not mutagenic in Ames Test

Method: OECD Test Guideline 476  
Result: Tests on bacterial or mammalian cell cultures did not  
show mutagenic effects.

Germ cell mutagenicity- Assessment : Not mutagenic in Ames Test

#### **2-(2-hexyloxyethoxy)ethanol:**

Genotoxicity in vitro : Result: Did not show mutagenic effects in animal experiments.

Germ cell mutagenicity- Assessment : Did not show mutagenic effects in animal experiments.

#### **Poly(oxy-1,2-ethanediyl), .alpha.-undecyl-.omega.-hydroxy-, branched and linear:**

Germ cell mutagenicity- Assessment : Not mutagenic in Ames Test

### **Carcinogenicity**

Not classified based on available information.

### **Components:**

#### **Reaction product of DMO-THF, ethanol and water:**

Carcinogenicity - Assessment : No data available

#### **2-(2-hexyloxyethoxy)ethanol:**

Carcinogenicity - Assessment : No data available

#### **Poly(oxy-1,2-ethanediyl), .alpha.-undecyl-.omega.-hydroxy-, branched and linear:**

Carcinogenicity - Assessment : No data available

### **Reproductive toxicity**

Not classified based on available information.

### **Components:**

#### **Reaction product of DMO-THF, ethanol and water:**

Reproductive toxicity - Assessment : No data available

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### **2-(2-hexyloxyethoxy)ethanol:**

Reproductive toxicity - Assessment : Animal testing did not show any effects on fertility.

### **Poly(oxy-1,2-ethanediyl), .alpha.-undecyl-.omega.-hydroxy-, branched and linear:**

Reproductive toxicity - Assessment : No data available

### **STOT - single exposure**

May cause damage to organs.

#### **Product:**

Exposure routes : Inhalation  
Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure, category 2.  
Remarks : The toxicological data has been taken from products of similar composition.

Exposure routes : Ingestion  
Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure, category 2.  
Remarks : The toxicological data has been taken from products of similar composition.

#### **Components:**

### **Reaction product of DMO-THF, ethanol and water:**

Exposure routes : Inhalation  
Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure, category 2.  
Remarks : The toxicological data has been taken from products of similar composition.

Exposure routes : Ingestion  
Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure, category 2.  
Remarks : The toxicological data has been taken from products of similar composition.

### **2-(2-hexyloxyethoxy)ethanol:**

Remarks : Based on available data, the classification criteria are not met.

### **Poly(oxy-1,2-ethanediyl), .alpha.-undecyl-.omega.-hydroxy-, branched and linear:**

Remarks : No data available

### **STOT - repeated exposure**

Not classified based on available information.

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### Components:

#### **Reaction product of DMO-THF, ethanol and water:**

Remarks : No data available

#### **2-(2-hexyloxyethoxy)ethanol:**

Remarks : Based on available data, the classification criteria are not met.

#### **Poly(oxy-1,2-ethanediyl), .alpha.-undecyl-.omega.-hydroxy-, branched and linear:**

Remarks : No data available

Not classified based on available information.

### **Further information**

#### Product:

Remarks : No human information is available.

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## **SECTION 12: Ecological information**

### **12.1 Toxicity**

#### Components:

#### **Reaction product of DMO-THF, ethanol and water:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 48.32 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 12.96 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 10.81 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

#### **2-(2-hexyloxyethoxy)ethanol:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 200 - 230 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna): 370 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : Remarks: No data available

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### **Poly(oxy-1,2-ethanediyl), .alpha.-undecyl-.omega.-hydroxy-, branched and linear:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 1 - 10 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : Remarks: not determined

Toxicity to algae/aquatic plants : Remarks: not determined

Toxicity to microorganisms : EC50 (activated sludge): 100 - 500 mg/l  
Exposure time: 3 h  
Method: OECD 209

## **12.2 Persistence and degradability**

### **Product:**

Biodegradability : Result: Readily biodegradable.  
Method: OECD 301D / EEC 84/449 C6  
Remarks: Information given is based on data on the components and the ecotoxicology of similar products.

### **Components:**

#### **Reaction product of DMO-THF, ethanol and water:**

Biodegradability : Result: Readily biodegradable.  
Method: OECD 301D / EEC 84/449 C6  
Remarks: Information given is based on data on the components and the ecotoxicology of similar products.

#### **2-(2-hexyloxyethoxy)ethanol:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 100 %  
Exposure time: 20 d  
Method: OECD 301B/ ISO 9439/ EEC 84/449 C5

#### **Poly(oxy-1,2-ethanediyl), .alpha.-undecyl-.omega.-hydroxy-, branched and linear:**

Biodegradability : Inoculum: activated sludge  
Result: Readily biodegradable.  
Biodegradation: 91 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301E

## **12.3 Bioaccumulative potential**

### **Components:**

#### **Reaction product of DMO-THF, ethanol and water:**

Bioaccumulation : Remarks: No bioaccumulation is to be expected (log Pow <=

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4).

### **2-(2-hexyloxyethoxy)ethanol:**

Bioaccumulation : Remarks: No bioaccumulation is to be expected (log Pow <= 4).

Partition coefficient: n-octanol/water : log Pow: 1.7

### **Poly(oxy-1,2-ethanediyl), .alpha.-undecyl-.omega.-hydroxy-, branched and linear:**

Bioaccumulation : Remarks: not determined

## **12.4 Mobility in soil**

### **Components:**

#### **2-(2-hexyloxyethoxy)ethanol:**

Mobility : Remarks: Mobile in soils

#### **Poly(oxy-1,2-ethanediyl), .alpha.-undecyl-.omega.-hydroxy-, branched and linear:**

Mobility : Remarks: not determined

## **12.5 Results of PBT and vPvB assessment**

### **Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## **12.6 Other adverse effects**

### **Product:**

Endocrine disrupting potential : 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.

Additional ecological information : none

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## **SECTION 13: Disposal considerations**

### **13.1 Waste treatment methods**

Product : Disposal together with normal waste is not allowed. Special disposal required according to local regulations.



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Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

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## SECTION 14: Transport information

### 14.1 UN number

ADR : Not regulated as a dangerous good  
IMDG : Not regulated as a dangerous good  
IATA : Not regulated as a dangerous good

### 14.2 UN proper shipping name

ADR : Not regulated as a dangerous good  
IMDG : Not regulated as a dangerous good  
IATA : Not regulated as a dangerous good

### 14.3 Transport hazard class(es)

ADR : Not regulated as a dangerous good  
IMDG : Not regulated as a dangerous good  
IATA : Not regulated as a dangerous good

### 14.4 Packing group

ADR : Not regulated as a dangerous good  
IMDG : Not regulated as a dangerous good  
IATA (Cargo) : Not regulated as a dangerous good  
IATA (Passenger) : Not regulated as a dangerous good

### 14.5 Environmental hazards

Not regulated as a dangerous good

### 14.6 Special precautions for user

Remarks : Not classified as supporting combustion according to the transport regulations.

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

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## SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17) : Conditions of restriction for the following entries should be considered:  
Number on list 3  
UK REACH Candidate list of substances of very high : Not applicable

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concern (SVHC) for Authorisation

The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain) : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

UK REACH List of substances subject to authorisation (Annex XIV) : Not applicable

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Volatile organic compounds (VOC) content: 96.92 %

according to Detergents Regulation EC 648/2004 : less than 5 %: Anionic surfactants, Non-ionic surfactants

### **Other regulations:**

#### **The components of this product are reported in the following inventories:**

- TCSI : Not in compliance with the inventory
- TSCA : Product contains substance(s) not listed on TSCA inventory.
- AIIC : Not in compliance with the inventory
- DSL : This product contains the following components that are not on the Canadian DSL nor NDSL.  
  
Reaction product of DMO-THF, ethanol and water
- ENCS : Not in compliance with the inventory
- ISHL : Not in compliance with the inventory
- KECI : Not in compliance with the inventory
- PICCS : Not in compliance with the inventory
- IECSC : Not in compliance with the inventory
- NZIoC : Not in compliance with the inventory
- TECI : Not in compliance with the inventory

### **15.2 Chemical safety assessment**

Exempt

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### SECTION 16: Other information

#### Full text of H-Statements

H302 : Harmful if swallowed.  
H312 : Harmful in contact with skin.  
H318 : Causes serious eye damage.  
H319 : Causes serious eye irritation.  
H332 : Harmful if inhaled.  
H371 : May cause damage to organs if inhaled.  
H371 : May cause damage to organs if swallowed.

#### Full text of other abbreviations

Acute Tox. : Acute toxicity  
Eye Dam. : Serious eye damage  
Eye Irrit. : Eye irritation  
STOT SE : Specific target organ toxicity - single exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - 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; 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 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; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

#### Further information

**Classification of the mixture:**

**Classification procedure:**

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Acute Tox. 4	H302	Based on product data or assessment
Acute Tox. 4	H332	Calculation method
Eye Dam. 1	H318	Calculation method
STOT SE 2	H371	Based on product data or assessment
STOT SE 2	H371	Based on product data or assessment

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

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