

Trade name: OtoVita Professional Disinfection Concentrate

Substance number: 71202

Version: 1 / GB

Date revised: 10.03.2023

Replaces Version: - / GB

Print date: 10.03.2023

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

1.1. Product identifier

OtoVita Professional Disinfection Concentrate

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

Use of the substance/preparation

Disinfectant of earmolds

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Dreve Otoplastik GmbH

Max-Planck-Straße 31

59423 Unna

Telephone no.

+49 2303 8807-0

Fax no.

+49 2303 8807-29

Information provided

Department Research & Development: Fax: +49 2303 8807-562

by / telephone

E-mail address of

sicherheitsdatenblatt@dreve.de

person responsible

for this SDS

1.4. Emergency telephone number

Henkel Fire Department / 24h-Emergency-Contact-No.: +49 211 797-3350

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 4 H302

Skin Corr. 1B H314

Eye Dam. 1 H318

STOT SE 3 H335

STOT RE 2 H373

Aquatic Acute 1 H400

Aquatic Chronic 1 H410

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms





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Signal word

Danger

Hazard statements

H302 Harmful if swallowed.
 H314 Causes severe skin burns and eye damage.
 H335 May cause respiratory irritation.
 H373 May cause damage to organs through prolonged or repeated exposure.
 H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 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.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine; N,N-Didecyl-N-methyl-poly(oxyethyl)ammoniumpropionate; 2-aminoethanol; D-Glucopyranose, oligomers, decyl octyl glycosides

2.3. Other hazards

No special hazards have to be mentioned.

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

SECTION 3: Composition/information on ingredients**3.2. Mixtures****Hazardous ingredients****N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine**

CAS No. 2372-82-9
 EINECS no. 219-145-8
 Registration no. 01-2119980592-29
 Concentration >= 13 < 25 %
 Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 3	H301	
Skin Corr. 1B	H314	
STOT RE 2	H373	Route of exposure: oral
Aquatic Acute 1	H400	
Aquatic Chronic 1	H410	

Concentration limits (Regulation (EC) No. 1272/2008)

Aquatic Acute 1	H400	M = 10
Aquatic Chronic 1	H410	M = 1

ATE	oral	261	mg/kg
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N,N-Didecyl-N-methyl-poly(oxyethyl)ammoniumpropionate

CAS No. 94667-33-1
 EINECS no. 619-057-3



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Registration no. 01-2119950327-36
 Concentration \geq 10 < 25 %
 Classification (Regulation (EC) No. 1272/2008)
 Acute Tox. 4 H302 Route of exposure: oral
 Skin Corr. 1B H314
 Eye Dam. 1 H318
 Aquatic Acute 1 H400
 Aquatic Chronic 1 H410

Concentration limits (Regulation (EC) No. 1272/2008)
 Aquatic Acute 1 H400 M = 10
 Aquatic Chronic H410 M = 1
 1

ATE oral 1.157 mg/kg

2-aminoethanol

CAS No. 141-43-5
 EINECS no. 205-483-3
 Concentration \geq 5 < 10 %
 Classification (Regulation (EC) No. 1272/2008)
 Acute Tox. 4 H302
 Acute Tox. 4 H312
 Acute Tox. 4 H332
 Skin Corr. 1B H314

Concentration limits (Regulation (EC) No. 1272/2008)
 STOT SE 3 H335 \geq 5 %

cATpE oral 500 mg/kg
 cATpE dermal 1.100 mg/kg
 cATpE inhalative, Dust/Mist 1,5 mg/l
 cATpE inhalative, Vapors 11 mg/l

Ethylene glykol

CAS No. 107-21-1
 EINECS no. 203-473-3
 Registration no. 01-211945816-28
 Concentration \geq 1 < 10 %
 Classification (Regulation (EC) No. 1272/2008)
 Acute Tox. 4 H302

ATE inhalative, Dust/Mist 2,5 mg/l

Fatty alcohol polyglycoether

CAS No. 68920-66-1
 EINECS no. 500-236-9
 Registration no. 01-2119489407-26
 Concentration \geq 2,5 < 10 %
 Classification (Regulation (EC) No. 1272/2008)
 Skin Irrit. 2 H315
 Aquatic Chronic 2 H411

D-Glucopyranose, oligomers, decyl octyl glycosides

CAS No. 68515-73-1
 EINECS no. 500-200-1
 Registration no. 01-2119488530-36
 Concentration \geq 1 < 3 %
 Classification (Regulation (EC) No. 1272/2008)
 Eye Dam. 1 H318



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N-Dodecylpropane-1,3-diamine

CAS No. 5538-95-4
 EINECS no. 226-902-6
 Registration no. 01-2120862678-37
 Concentration >= 0,1 < 1 %
 Classification (Regulation (EC) No. 1272/2008)
 Acute Tox. 4 H302
 Skin Corr. 1A H314
 Aquatic Acute 1 H400

Concentration limits (Regulation (EC) No. 1272/2008)
 Aquatic Acute 1 H400 M = 1

Dodecylamine

CAS No. 124-22-1
 EINECS no. 204-690-6
 Registration no. 01-2119484818-20
 Concentration >= 0,025 < 0,1 %
 Classification (Regulation (EC) No. 1272/2008)
 Skin Corr. 1B H314
 STOT RE 2 H373
 Asp. Tox. 1 H304
 Aquatic Acute 1 H400
 Aquatic Chronic 1 H410

Concentration limits (Regulation (EC) No. 1272/2008)
 Aquatic Acute 1 H400 M = 10
 Aquatic Chronic 1 H410 M = 10
 1

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

Remove contaminated, soaked clothing immediately and dispose of safely. Adhere to personal protective measures when giving first aid. Clean body thoroughly (bath, shower). In any case show the physician the Safety Data Sheet.

After inhalation

Ensure supply of fresh air. Remove affected person from danger area. Seek medical advice immediately.

After skin contact

Wash off immediately with soap and water. Seek medical advice immediately.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Take medical treatment.

After ingestion

Call in a physician immediately and show him the Safety Data Sheet. Rinse mouth thoroughly with water. Let plenty of water be drunk in small gulps. Do not induce vomiting.

Adhere to personal protective measures when giving first aid

First aider: Pay attention to self-protection!

4.2. Most important symptoms and effects, both acute and delayed

Until now no symptoms known so far.

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4.3. Indication of any immediate medical attention and special treatment needed

Hints for the physician / hazards

In the case of swallowing with subsequent vomiting, aspiration of the lungs can occur which can lead to chemical pneumonia or asphyxiation.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Recommended: alcohol resistant foam, CO₂, powders, water spray/mist, Extinguishing measures to suit surroundings

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of combustion evolution of dangerous gases possible.

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Do not inhale explosion and/or combustion gases. In case of combustion use a suitable breathing apparatus. Wear full protective suit.

Other information

Collect contaminated fire-fighting water separately, must not be discharged into the drains. Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations. Observe manufacturer's / distributor's instructions.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use breathing apparatus if exposed to vapours/dust/aerosol. Avoid contact with skin, eyes and clothing. Refer to protective measures listed in Sections 7 and 8.

6.2. Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers). Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. Retain and dispose of contaminated wash water. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Pick up with absorbent material. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Containers in which spilt substance has been collected must be adequately labelled. Dispose of absorbed material in accordance with the regulations.

6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

SECTION 7: Handling and storage



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7.1. Precautions for safe handling

Advice on safe handling

Avoid formation of aerosols. Perform filling operations only at stations with exhaust ventilation facilities. Provide suitable exhaust ventilation at the processing machines. If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn. Keep container tightly closed.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep in original packaging, tightly closed. Storage rooms must be properly ventilated. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Provide solvent-resistant and impermeable floor.

Hints on storage assembly

Do not store together with foodstuffs.

Further information on storage conditions

Keep under lock and key or accessible only to specialists or people who are authorized.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine

List TRGS 900

Type E

Value 0,05 mg/m³

Maximum limit value: 8 (II); Pregnancy group: Y; Status: 03/18

Ethylene glykol

List TRGS 900

Type Dampf und Aerosole

Value 26 mg/m³ 10 ppm(V)

Maximum limit value: 2(I); Skin resorption / sensibilisation: H; Pregnancy group: Y; Status: 07/13;

Remarks: DGF, EU

Other information

Contains no substances with occupational exposure limit values.

Derived No/Minimal Effect Levels (DNEL/DMEL)

N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine

Type of value Derived No Effect Level (DNEL)

Reference group Worker

Duration of exposure Long term

Route of exposure dermal

Mode of action Systemic effects

Concentration 0,91 mg/kg

Type of value Derived No Effect Level (DNEL)

Reference group Worker

Duration of exposure Long term

Route of exposure inhalative

Mode of action Systemic effects

Concentration 2,35 mg/m³

Type of value Derived No Effect Level (DNEL)

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Reference group	Consumer	
Route of exposure	dermal	
Concentration	0,54	mg/kg

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	0,7	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Concentration	0,2	mg/kg

N,N-Didecyl-N-methyl-poly(oxyethyl)ammoniumpropionate

Type of value	Derived No Effect Level (DNEL)	
Reference group	Industrial use	
Route of exposure	inhalative	
Concentration	0,5	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Industrial use	
Route of exposure	dermal	
Concentration	0,7	mg/kg

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Route of exposure	inhalative	
Concentration	0,12	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Route of exposure	dermal	
Concentration	0,35	mg/kg

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Route of exposure	oral	
Concentration	0,35	mg/kg

Ethylene glykol

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	35	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	106	mg/kg

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Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	7	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	53	mg/kg

D-Glucopyranose, oligomers, decyl octyl glycosides

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	595000	mg/kg

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	420	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	357000	mg/kg

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	35,7	mg/kg

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	124	mg/m ³

Predicted No Effect Concentration (PNEC)**N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine**

Type of value	PNEC	
Type	Freshwater	
Concentration	0,001	mg/l



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Type of value	PNEC		
Type	Soil		
Concentration	45,34	mg/kg	
Type of value	PNEC		
Type	Marine sediment		
Concentration	0,85	mg/kg	
Type of value	PNEC		
Type	Freshwater sediment		
Concentration	8,5	mg/kg	
Type of value	PNEC		
Type	Sewage treatment plant (STP)		
Concentration	1,33	mg/l	
Type of value	PNEC		
Type	Water (intermittent release)		
Concentration	0	mg/l	
Type of value	PNEC		
Type	Marine		
Concentration	0	mg/l	

N,N-Didecyl-N-methyl-poly(oxyethyl)ammoniumpropionate

Type of value	PNEC		
Type	Freshwater		
Concentration	0,001	mg/l	
Type of value	PNEC		
Type	Sewage treatment plant (STP)		
Concentration	0,118	mg/l	
Type of value	PNEC		
Type	Freshwater sediment		
Concentration	5,3	mg/kg	
Type of value	PNEC		
Type	Soil		
Concentration	2,83	mg/kg	

Ethylene glykol

Type of value	PNEC		
Type	Freshwater		
Concentration	10	mg/l	
Type of value	PNEC		
Type	Saltwater		
Concentration	1	mg/l	
Type of value	PNEC		
Type	Water (intermittent release)		
Concentration	10	mg/l	
Type of value	PNEC		
Type	Sewage treatment plant (STP)		



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Concentration	199,5	mg/l
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	37	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	1,53	mg/kg
Type of value	PNEC	
Type	Marine sediment	
Concentration	3,7	mg/kg

D-Glucopyranose, oligomers, decyl octyl glycosides

Type of value	PNEC	
Type	Freshwater	
Concentration	0,176	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0,0176	mg/l
Type of value	PNEC	
Type	Water (intermittent release)	
Concentration	0,27	mg/l
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	560	mg/l
Type of value	PNEC	
Type	Sediment	
Concentration	1,5616	mg/kg
Type of value	PNEC	
Type	Marine sediment	
Concentration	0,152	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	0,654	mg/kg
Type of value	PNEC	
Type	Secondary poisoning	
Concentration	111,11	mg/kg

8.2. Exposure controls**General protective and hygiene measures**

Hold emergency shower available. Hold eye wash fountain available. Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes. Do not eat, drink or smoke during work time. Storage of foodstuffs in work rooms is forbidden. Wash hands before breaks and after work. Clean skin thoroughly after work; apply skin cream.

Respiratory protection

Not necessary, but do not inhale vapours. Use suitable respiratory protective device in case of



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insufficient ventilation

Hand protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Appropriate Material nitrile

Hand protection must comply with EN 374.

Eye protection

Safety glasses

Body protection

Clothing as usual in the chemical industry.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state	liquid	
Colour	blue	
Odour	of lemon	
Melting point		
Remarks	not determined	
Freezing point		
Remarks	not determined	
Boiling point or initial boiling point and boiling range		
Value	100	°C
Flammability		
	not determined	
Upper and lower explosive limits		
Remarks	not determined	
Flash point		
Value	> 65	°C
Method	closed cup	
Ignition temperature		
Value	> 320	°C
Decomposition temperature		
Remarks	not determined	
pH value		
Remarks	not determined	
Viscosity		
Remarks	not determined	
Solubility(ies)		
Remarks	not determined	
Partition coefficient n-octanol/water (log value)		
Remarks	not determined	
Vapour pressure		



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Value 23 hPa

Density and/or relative densityValue 1,01 g/cm³

Temperature 20 °C

Relative vapour density

Remarks not determined

9.2. Other information**Odour threshold**

Remarks not determined

Evaporation rate (ether = 1) :

Remarks not determined

Solubility in water

Remarks miscible in all proportions

Explosive properties

evaluation no

Oxidising properties

Remarks not determined

Other information

None known

SECTION 10: Stability and reactivity**10.1. Reactivity**

No hazardous reactions when stored and handled according to prescribed instructions.

10.2. Chemical stability

No hazardous reactions known.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

No hazardous reactions known.

10.5. Incompatible materials

None known

10.6. Hazardous decomposition products

Toxic gases/vapours, Irritant gases/vapours

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity**

ATE 1.383,11 mg/kg

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Method calculated value (Regulation (EC) No. 1272/2008)

Acute oral toxicity (Components)

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N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine

Species	rat		
LD50	261		mg/kg
Method	OECD 401		

N,N-Didecyl-N-methyl-poly(oxyethyl)ammoniumpropionate

Species	rat		
LD50	1157		mg/kg
Method	FDA guideline		

Ethylene glykol

Species	Rats (male/female)		
LD50	7712		mg/kg
Source	ECHA		

Fatty alcohol polyglycolether

Species	rat		
LD50	> 2000		mg/kg
Method	OECD 401		

Dodecylamine

Species	rat		
LD50	> 2000		mg/kg
Method	OECD 401		

D-Glucopyranose, oligomers, decyl octyl glycosides

Species	rat		
LD50	> 2000		mg/kg

N-Dodecylpropane-1,3-diamine

LD50	300		mg/kg
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Acute dermal toxicity

ATE	> 10.000		mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)		

Acute dermal toxicity (Components)**N,N-Didecyl-N-methyl-poly(oxyethyl)ammoniumpropionate**

Species	rabbit		
LD50	3342		mg/kg
Method	FDA guideline		
Remarks	Test conducted with a similar formulation.		

Ethylene glykol

Species	mouse		
LD50	> 3500		mg/kg

Fatty alcohol polyglycolether

Species	rabbit		
LD50	> 2000		mg/kg
Method	OECD 402		

Dodecylamine

Species	rat		
LD50	> 2000		mg/kg
Method	OECD 402		
Remarks	Test conducted with a similar formulation.		

D-Glucopyranose, oligomers, decyl octyl glycosides

Species	rabbit		
LD50	> 2000		mg/kg
Method	OECD 402		

Acute inhalational toxicity

ATE	19,4555		mg/l
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Administration/Form	Dust/Mist
Method	calculated value (Regulation (EC) No. 1272/2008)
ATE	> 100 mg/l
Administration/Form	Vapors
Method	calculated value (Regulation (EC) No. 1272/2008)
Remarks	Based on available data, the classification criteria are not met.

Acute inhalative toxicity (Components)**Ethylene glykol**

Species	Rats (male/female)	
LC50	2,5	mg/l
Duration of exposure	6	h
Administration/Form	Dust/Mist	
Source	ECHA	

Fatty alcohol polyglycoether

Species	rat	
LC50	> 1600	mg/m ³
Duration of exposure	4	h
Administration/Form	Vapors	
Method	OECD 403	

Skin corrosion/irritation

evaluation	corrosive
Remarks	The classification criteria are met.

Skin corrosion/irritation (Components)**N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine**

Species	rabbit
evaluation	corrosive
Method	OECD 404

N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine

Species	Human
evaluation	corrosive

N,N-Didecyl-N-methyl-poly(oxyethyl)ammoniumpropionate

Species	rabbit
evaluation	corrosive
Method	OECD 404

Fatty alcohol polyglycoether

Species	rabbit	
Duration of exposure	4	h
evaluation	irritant	
Method	OECD 404	

Dodecylamine

Species	rabbit
evaluation	corrosive
Method	OECD 404

Serious eye damage/irritation

evaluation	corrosive
Remarks	The classification criteria are met.

Serious eye damage/irritation (Components)**N,N-Didecyl-N-methyl-poly(oxyethyl)ammoniumpropionate**

Species	rabbit
evaluation	corrosive
Method	OECD 405

D-Glucopyranose, oligomers, decyl octyl glycosides

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Species rabbit
 evaluation corrosive
 Method OECD 405

N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine
 evaluation corrosive

Dodecylamine
 evaluation corrosive

Sensitization

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

Subacute, subchronic, chronic toxicity

Remarks not determined

Mutagenicity

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

Reproductive toxicity

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

Carcinogenicity

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

Specific Target Organ Toxicity (STOT)**Single exposure**

Remarks The classification criteria are met.
 evaluation May cause respiratory irritation.

Repeated exposure

Remarks The classification criteria are met.
 evaluation May cause damage to organs through prolonged or repeated exposure

Specific Target Organ Toxicity (STOT) (Components)**N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine****Repeated exposure**

evaluation May cause damage to organs through prolonged or repeated exposure
 Route of exposure oral

Species rat
 NOAEL 4 mg/kg

Ethylene glykol**Repeated exposure**

evaluation May cause damage to organs.
 Route of exposure oral
 Organs: Kidneys

Species rat
 NOEL 150 mg/kg
 Source ECHA

Dodecylamine

evaluation May cause damage to organs through prolonged or repeated exposure
 Route of exposure oral

Species rat
 NOAEL 3,25 mg/kg
 Remarks Test conducted with a similar formulation.

Aspiration hazard

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

11.2 Information on other hazards

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Endocrine disrupting properties with respect to humans

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

Experience in practice

Inhalation may lead to irritation of the respiratory tract.

Other information

No toxicological data are available.

SECTION 12: Ecological information

12.1. Toxicity**General information**

not determined

Fish toxicity (Components)**N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine**

Species	zebra fish (Brachydanio rerio)	
LC50	0,431	mg/l
Method	OECD 203	

N,N-Didecyl-N-methyl-poly(oxyethyl)ammoniumpropionate

Species	Bluegill (Lepomis macrochirus)	
LC50	0,52	mg/l
Duration of exposure	96	h

N,N-Didecyl-N-methyl-poly(oxyethyl)ammoniumpropionate

Species	zebra fish (Brachydanio rerio)	
NOEC	32	µg/l
Duration of exposure	34	d
Method	OECD 210	
Remarks	Test conducted with a similar formulation.	

Ethylene glykol

Species	Fathead minnow (Pimephales promelas)	
LC50	> 72860	mg/l
Duration of exposure	96	h

Fatty alcohol polyglycoether

Species	zebra fish (Brachydanio rerio)	
LC50	108	mg/l
Duration of exposure	96	h

Fatty alcohol polyglycoether

Species	Fathead minnow (Pimephales promelas)	
EC20	0,0314	mg/l
Duration of exposure	30	d

Dodecylamine

Species	zebra fish (Brachydanio rerio)	
LC50	0,84	mg/l
Duration of exposure	96	h
Method	OECD 203	
Remarks	Test conducted with a similar formulation.	

D-Glucopyranose, oligomers, decyl octyl glycosides

Species	zebra fish (Brachydanio rerio)	
LC50	100	mg/l
Duration of exposure	96	h

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Method ISO 7346

D-Glucopyranose, oligomers, decyl octyl glycosides

Species zebra fish (Brachydanio rerio)
 NOEC 1,8 mg/l
 Duration of exposure 28 d
 Method OECD 204

Daphnia toxicity (Components)**N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine**

Species Daphnia magna
 EC50 0,077 mg/l
 Duration of exposure 48 h
 Method OECD 202

N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine

Species Daphnia magna
 NOEC 0,024 mg/l
 Duration of exposure 21 d
 Method OECD 211

N,N-Didecyl-N-methyl-poly(oxyethyl)ammoniumpropionate

Species Daphnia magna
 LC50 0,07 mg/l
 Duration of exposure 48 h
 Method OECD 202

N,N-Didecyl-N-methyl-poly(oxyethyl)ammoniumpropionate

Species Daphnia magna
 NOEC 0,018 mg/l
 Duration of exposure 21 d
 Method OECD 211
 Remarks Test conducted with a similar formulation.

Ethylene glykol

Species Daphnia magna
 EC50 > 100 mg/l
 Duration of exposure 48 h
 Method OECD 202

Fatty alcohol polyglycoether

Species Daphnia magna
 EC50 51 mg/l
 Duration of exposure 48 h

Fatty alcohol polyglycoether

Species Daphnia magna
 EC20 0,0724 mg/l
 Duration of exposure 21 d

Dodecylamine

Species Daphnia magna
 EC50 0,32 mg/l
 Duration of exposure 48 h
 Method OECD 202
 Remarks Test conducted with a similar formulation.

Dodecylamine

Species Daphnia magna
 NOEC 0,013 mg/l
 Duration of exposure 21 d
 Method OECD 211
 Remarks Test conducted with a similar formulation.



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D-Glucopyranose, oligomers, decyl octyl glycosides

Species	Daphnia magna	
EC50	> 100	mg/l
Method	OECD 202	

D-Glucopyranose, oligomers, decyl octyl glycosides

Species	Daphnia magna	
NOEC	1,76	mg/l
Duration of exposure	21	d
Method	OECD 202	

Algae toxicity (Components)**N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine**

Species	Scenedesmus subspicatus	
EC10	0,012	mg/l
Duration of exposure	72	h
Method	OECD 201	

N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine

Species	Pseudokirchneriella subcapitata	
ErC50	0,015	mg/l
Duration of exposure	72	h
Method	OECD 201	

N,N-Didecyl-N-methyl-poly(oxyethyl)ammoniumpropionate

Species	Scenedesmus subspicatus	
NOEC	0,044	mg/l
Duration of exposure	72	h
Method	OECD 201	

Fatty alcohol polyglycoether

Species	Pseudokirchneriella subcapitata	
EC50	> 10	mg/l
Duration of exposure	72	h

Fatty alcohol polyglycoether

Species	Scenedesmus subspicatus	
EC20	0,195	mg/l
Duration of exposure	72	h

Dodecylamine

Species	Desmodesmus subspicatus	
EC50	0,16	mg/l
Duration of exposure	72	h
Method	OECD 201	
Remarks	Test conducted with a similar formulation.	

D-Glucopyranose, oligomers, decyl octyl glycosides

Species	Scenedesmus subspicatus	
EC50	27,22	mg/l
Duration of exposure	72	h
Method	DIN 38412 / Part 9	

Bacteria toxicity (Components)**N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine**

Species	activated sludge	
EC50	18	mg/l
Duration of exposure	3	h
Method	OECD 209	

Ethylene glykol

Species	activated sludge	
EC20	> 1995	mg/l

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Duration of exposure	30	min	
Dodecylamine			
Species	activated sludge		
EC50	14		mg/l
Duration of exposure	3	h	
Method	OECD 209		
Remarks	Test conducted with a similar formulation.		
D-Glucopyranose, oligomers, decyl octyl glycosides			
Species	Pseudomonas putida		
EC0	> 100		mg/l
Duration of exposure	6	h	
N,N-Didecyl-N-methyl-poly(oxyethyl)ammoniumpropionate			
Species	activated sludge		
NOEC	3,2		mg/l
Duration of exposure	3	h	

12.2. Persistence and degradability

General information

not determined

Biodegradability (Components)

D-Glucopyranose, oligomers, decyl octyl glycosides

evaluation Readily biodegradable (according to OECD criteria)

Ready degradability (Components)

N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine

Value	79		%
Duration of test	28	d	
Method	Sewage water systeme		

N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine

Value	68		%
Duration of test	28	d	

N,N-Didecyl-N-methyl-poly(oxyethyl)ammoniumpropionate

Value	34		%
Duration of test	28	d	

Ethylene glykol

Value	90		%
Duration of test	10	d	

Fatty alcohol polyglycoether

Dodecylamine

Value	60		%
Duration of test	28	d	
Method	Sewage water systeme		

12.3. Bioaccumulative potential

General information

not determined

Partition coefficient n-octanol/water (log value)

Remarks not determined

Octanol/water partition coefficient (log Pow) (Components)

N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine

log Pow 4,46

Ethylene glykol



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log Pow	-1,36		
Dodecylamine			
log Pow	4,33		
Temperature	25	°C	

12.4. Mobility in soil**General information**

not determined

12.5. Results of PBT and vPvB assessment**General information**

not determined

Results of PBT and vPvB assessment

The product contains no PBT substances

The product contains no vPvB substances.

12.6 Endocrine disrupting properties**Endocrine disrupting properties with respect to the environment**

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects**General information**

not determined

General information / ecology

Do not allow to enter soil, waterways or waste water canal. Avoid release into the atmosphere.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations for the product**

Must not be disposed together with household garbage.

Allocation of a waste code number, according to the European Waste Catalogue (EWC), should be carried out in agreement with the regional waste disposal company.

Disposal recommendations for packaging

Packaging that cannot be cleaned should be disposed off in agreement with the regional waste disposal company.

SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
14.1. UN number	1903	1903	1903
14.2. UN proper shipping name	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine)	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine)	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine)

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14.3. Transport hazard class(es)	8	8	8
Label			
14.4. Packing group	II	II	II
Limited Quantity	1 I		
Transport category	2		
14.5. Environmental hazards	 ENVIRONMENTALLY HAZARDOUS	Marine Pollutant 	
Tunnel restriction code	E		

SECTION 15: Regulatory information

15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.

SECTION 16: Other information

Hazard statements listed in Chapter 3

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

CLP categories listed in Chapter 3

Acute Tox. 3	Acute toxicity, Category 3
Acute Tox. 4	Acute toxicity, Category 4
Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic, Category 2
Asp. Tox. 1	Aspiration hazard, Category 1



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Eye Dam. 1	Serious eye damage, Category 1
Skin Corr. 1A	Skin corrosion, Category 1A
Skin Corr. 1B	Skin corrosion, Category 1B
Skin Irrit. 2	Skin irritation, Category 2
STOT RE 2	Specific target organ toxicity - repeated exposure, Category 2

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.