



Trade name: OtoVita Professional Disinfection Concentrate

Substance number: 71202

Version: 2 / GB

Date revised: 26.04.2024

Replaces Version: 1 / GB

Print date: 26.04.2024

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

1.1. Product identifier

OtoVita Professional Disinfection Concentrate

UFI

UFI: V16C-3674-Y00Q-4NE5

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

DE-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.com

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-methylpoly(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
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	Aquatic Chronic 1	H410	M = 1	
ATE	oral	261	mg/kg	

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

CAS No.	94667-33-1			
EINECS no.	619-057-3			
Registration no.	01-2119950327-36			
Concentration	>= 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 1	H410	M = 1

ATE	oral	1.157	mg/kg
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2-aminoethanol

CAS No.	141-43-5			
EINECS no.	205-483-3			
Registration no.	01-2119486455-28			
Concentration	>= 5	< 6,5	%	

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

Acute Tox. 4	H302
Acute Tox. 4	H312
Acute Tox. 4	H332
STOT SE 3	H335
Skin Corr. 1B	H314
Aquatic Chronic 3	H412

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

	STOT SE 3	H335	>= 5 %
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ATE	oral	1.089	mg/kg
cATpE	inhalative, Dust/Mist	1,5	mg/l
ATE	inhalative, Vapors	1,3	mg/l

Fatty alcohol polyglycolether

CAS No.	68920-66-1			
EINECS no.	500-236-9			
Registration no.	01-2119489407-26			
Concentration	>= 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	>= 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 \geq 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 \geq 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

Further ingredients**Ethylene glykol**

CAS No. 107-21-1
 EINECS no. 203-473-3
 Registration no. 01-2119456816-28
 Concentration \geq 1 < 10 %
 Advice: [3]
 Classification (Regulation (EC) No. 1272/2008)
 Acute Tox. 4 H302

Note

[3] Substance with occupational exposure limits

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



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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.

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.



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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

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

Value 52 mg/m³ 20 ppm(V)

Short term exposure limit 104 mg/m³ 40 ppm(V)

Skin resorption / sensibilisation: H

2-aminoethanol

List TRGS 900

Type AGW

Dämpfe und Aerosole

Value 0,5 mg/m³ 0,2 ppm(V)

Short term exposure limit 7,6 mg/m³ 3 ppm(V)

Skin resorption / sensibilisation: H/S; Pregnancy group: Y

Other information

Contains no substances with occupational exposure limit values.



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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/m ³

Type of value	Derived No Effect Level (DNEL)	
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	



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Concentration	0,35	mg/kg
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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

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	



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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

2-aminoethanol

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	0,51	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Acute	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	3	mg/kg/d

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	0,28	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	1,5	mg/kg/d

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	1,5	mg/kg/d

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	1	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	



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Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	0,18	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
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

D-Glucopyranose, oligomers, decyl octyl glycosides

Type of value	PNEC
Type	Freshwater



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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
2-aminoethanol		
Type of value	PNEC	
Type	Freshwater	
Conditions	Short term	
Concentration	0,085	mg/l
Type of value	PNEC	
Type	Saltwater	
Conditions	Short term	
Concentration	0,009	mg/l
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Conditions	Short term	
Concentration	100	mg/l
Type of value	PNEC	
Type	Freshwater sediment	
Conditions	Short term	
Concentration	0,434	mg/kg
Type of value	PNEC	
Type	Marine sediment	
Conditions	Short term	
Concentration	0,043	mg/kg



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Type of value	PNEC	
Type	Soil	
Conditions	Short term	
Concentration	0,037	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 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		
evaluation	not determined	
Upper and lower explosive limits		
Remarks	not determined	
Flash point		
Value	> 65	°C
Method	closed cup	
Ignition temperature		



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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		
Value	23	hPa
Density and/or relative density		
Value	1,01	g/cm ³
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

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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	1.495,10	mg/kg
	51	
Method	calculated value (Regulation (EC) No. 1272/2008)	

Acute oral toxicity (Components)**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	rat	
LD50	7712	mg/kg

Fatty alcohol polyglycoether

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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2-aminoethanol

Species	rat	
LD50	1089	mg/kg
Method	OECD 401	

Acute dermal toxicity

Remarks	Based on available data, the classification criteria are not met.
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Acute dermal toxicity (Components)**N,N-Didecyl-N-methyl-poly(oxyethyl)ammoniumpropionate**

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

Ethylene glykol

Species	mouse
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LD50 > 3500 mg/kg

Fatty alcohol polyglycoetherSpecies 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**2-aminoethanol**Species rabbit
LD50 2504 mg/kg**Acute inhalational toxicity**ATE 25,9666 mg/l
Administration/Form Vapors
Method calculated value (Regulation (EC) No. 1272/2008)
ATE > 20 mg/l
Administration/Form Dust/Mist
Method calculated value (Regulation (EC) No. 1272/2008)
Remarks Based on available data, the classification criteria are not met.**Acute inhalative toxicity (Components)****Fatty alcohol polyglycoether**Species rat
LC50 > 1600 mg/m³
Duration of exposure 4 h
Administration/Form Vapors
Method OECD 403**2-aminoethanol**Species rat
LC50 > 1,3 mg/l
Duration of exposure 6 h
Administration/Form Vapors**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



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Fatty alcohol polyglycoether

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

Dodecylamine

Species	rabbit
evaluation	corrosive
Method	OECD 404

2-aminoethanol

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

Species	rabbit
evaluation	corrosive
Method	OECD 405

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

evaluation	corrosive
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Dodecylamine

evaluation	corrosive
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2-aminoethanol

Species	rabbit
evaluation	corrosive
Method	OECD 405

Sensitization

Remarks	Based on available data, the classification criteria are not met.
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Subacute, subchronic, chronic toxicity

Remarks	not determined
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Mutagenicity

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

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

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

Dodecylamineevaluation 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.

2-aminoethanol**Single exposure**evaluation May cause respiratory irritation.
Route of exposure inhalative**Aspiration hazard**

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

11.2 Information on other hazards**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



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Remarks Test conducted with a similar formulation.

Ethylene glykol

Species Fathead minnow (*Pimephales promelas*)
 LC50 > 53000 mg/l
 Duration of exposure 96 h

Ethylene glykol

NOEC > 40 mg/l
 Duration of exposure 28 d
 Remarks Test conducted with a similar formulation.

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
 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

2-aminoethanol

Species carp (*Cyprinus carpio*)
 LC50 349 mg/l
 Duration of exposure 96 h
 Method Regulation (EC) No. 440/2008, Annex, C.1

2-aminoethanol

Species *Oryzias latipes*
 NOEC 1,24 mg/l
 Duration of exposure 41 d
 Method OECD 210

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

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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	0,01		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.		
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		
2-aminoethanol			
Species	Daphnia magna		
EC50	27,04		mg/l
Duration of exposure	48	h	
Method	Regulation (EC) No. 440/2008, Annex, C.2		
2-aminoethanol			
Species	Daphnia magna		
NOEC	0,85		mg/l



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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	Desmodesmus subspicatus	
ErC50	0,34	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	

Ethylene glykol

Species	Pseudokirchneriella subcapitata	
NOEC	> 100	mg/l
Duration of exposure	72	h
Method	OECD 201	
Remarks	Test conducted with a similar formulation.	

2-aminoethanol

Species	Pseudokirchneriella subcapitata	
EC50	2,8	mg/l
Duration of exposure	72	h
Method	OECD 201	

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

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



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Method	OECD 209		
Ethylene glykol			
Species	activated sludge		
EC20	>	1995	mg/l
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		
EC50	24		mg/l
Duration of exposure	3	h	
Method	OECD 209		
2-aminoethanol			
Species	activated sludge		
EC10	>	1000	mg/l
Duration of exposure	30	min	
Method	OECD 209		

12.2. Persistence and degradability

General information

not determined

Biodegradability (Components)

D-Glucopyranose, oligomers, decyl octyl glycosides

evaluation Readily biodegradable (according to OECD criteria)

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

Value 34 %

Duration of test 28 d

evaluation not readily degradable

Method OECD 301 B

Ethylene glykol

Value 90 to 100 %

Duration of test 10 d

evaluation Readily biodegradable (according to OECD criteria)

Method OECD 301 A

2-aminoethanol

Value > 90 %

Duration of test 28 d

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 %



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Duration of test 28 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

log Pow -1,36

Source ECHA

Dodecylamine

log Pow 4,33

Temperature 25 °C

2-aminoethanol

log Pow -2,3

Temperature 25 °C

Method OECD 107

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

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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 or ID number	1903	1903	1903
14.2. UN proper shipping name	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine, N,N-Didecyl-N-methyl-poly(oxyethyl)ammoniumpropionate)	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine, N,N-Didecyl-N-methyl-poly(oxyethyl)ammoniumpropionate)	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine, N,N-Didecyl-N-methyl-poly(oxyethyl)ammoniumpropionate)
14.3. Transport hazard class(es)	8	8	8
Label			
14.4. Packing group	II	II	II
Limited Quantity	1 I	1 I	
Transport category	2		
14.5. Environmental hazards	 ENVIRONMENTALLY HAZARDOUS	Marine Pollutant  ENVIRONMENTALLY HAZARDOUS	 ENVIRONMENTALLY HAZARDOUS
Tunnel restriction code	E		

SECTION 15: Regulatory information

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15.2. Chemical safety assessment

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

SECTION 16: Other information

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

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

Acute Tox. 4	H302	Calculation method
Skin Corr. 1B	H314	Calculation method
Eye Dam. 1	H318	Calculation method
STOT SE 3	H335	Calculation method
STOT RE 2	H373	Calculation method
Aquatic Acute 1	H400	Calculation method
Aquatic Chronic 1	H410	Calculation method

Hazard statements listed in Chapter 2/3

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.
H335	May cause respiratory irritation.
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.
H412	Harmful to aquatic life with long lasting effects.

CLP categories listed in Chapter 2/3

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
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
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
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

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.