

SAFETY DATA SHEET

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

schülke 

puresept®

No Change Service!

Version
01.03

Revision Date:
24.09.2022

Date of last issue: 19.02.2022

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

1.1 Product identifier

Trade name : puresept®

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

Use of the Sub-
stance/Mixture : Disinfectant for medical device

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
(Schülke & Mayr UK Ltd.: +44-1142543500)

1.4 Emergency telephone number

Emergency telephone num-
ber : Carechem 24 International: +44 1235 239670

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)

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Flammable liquids, Category 3	H226: Flammable liquid and vapour.
Acute toxicity, Category 4	H302: Harmful if swallowed.
Skin corrosion, Sub-category 1B	H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Short-term (acute) aquatic hazard, Category 1	H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard, Category 2	H411: Toxic to aquatic life with long lasting effects.

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 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

:

Prevention:

P273 Avoid release to the environment.
P280 Wear protective gloves (e.g. butyl rubber) /eye protection/face protection.

Response:

P310 Immediately call a POISON CENTER/ doctor.
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
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:

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

Hazardous components which must be listed on the label:
didecyldimethylammonium chloride

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Alcohol C10-16, ethoxylated
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine

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)
didecyltrimethylammonium chloride	7173-51-5 230-525-2 612-131-00-6 01-2119945987-15-XXXX	Acute Tox. 3; H301 Skin Corr. 1B; H314 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 2; H411 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 1	>= 10 - < 20
Alcohol C10-16, ethoxylated	166736-08-9 --- --- ---	Acute Tox. 4; H302 Eye Dam. 1; H318	>= 10 - < 20
propan-2-ol	67-63-0 200-661-7 603-117-00-0 01-2119457558-25-XXXX	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 (Central nervous system)	>= 1 - < 10
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	2372-82-9 219-145-8 --- 01-2119980592-29-XXXX	Acute Tox. 3; H301 Skin Corr. 1B; H314 Eye Dam. 1; H318 STOT RE 2; H373 (Kidney) Aquatic Acute 1;	>= 1 - < 2.5

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		H400 Aquatic Chronic 1; H410	
		M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 1	
N-dodecylpropane-1,3-diamine	5538-95-4 226-902-6 - - - - - -	Acute Tox. 4; H302 Skin Corr. 1A; H314 Eye Dam. 1; H318 Aquatic Acute 1; H400 M-Factor (Acute aquatic toxicity): 1	>= 0.1 - < 0.25

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Take off all contaminated clothing immediately.
In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- If inhaled : Move to fresh air.
Call a physician immediately.
No artificial respiration, mouth-to-mouth or mouth to nose. Use suitable instruments/apparatus.
- In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes.
Call a physician immediately.
- 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.
Call a physician immediately.
- If swallowed : Do NOT induce vomiting.
Rinse mouth with water.
Give small amounts of water to drink.
Obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : Treat symptomatically.
- Risks : Harmful if swallowed.
Causes serious eye damage.
Causes severe burns.

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4.3 Indication of any immediate medical attention and special treatment needed

Treatment : In case of shortness of breath, give oxygen.
For specialist advice physicians should contact the Poisons
Information Service.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Dry powder
Foam
Carbon dioxide (CO₂)
Water spray jet

Unsuitable extinguishing media : Do NOT use water jet.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Heating or fire can release toxic gas.

Hazardous combustion products : No hazardous combustion products are known

5.3 Advice for firefighters

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

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

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 : Wear personal protective equipment.
Use only in well-ventilated areas.
- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Hygiene measures : Avoid contact with the skin and the eyes. Do not breathe vapour.

7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Store at room temperature in the original container.
- Further information on storage conditions : Keep away from direct sunlight. Keep container in a well-ventilated place.
- Advice on common storage : Do not store together with explosives, oxidizing agents, organic peroxides and infectious products.

7.3 Specific end use(s)

- Specific use(s) : none

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
propan-2-ol	67-63-0	TWA	400 ppm 999 mg/m ³	GB EH40
		STEL	500 ppm 1,250 mg/m ³	GB EH40

Derived No Effect Level (DNEL):

Substance name	End Use	Exposure routes	Potential health effects	Value
didecyldimethylammonium chloride	Workers	Inhalation	Acute systemic effects, Long-term systemic effects	5.39 mg/m ³
	Workers	Dermal	Acute systemic effects, Long-term systemic effects	1.55 mg/kg
propan-2-ol	Workers	Skin contact	Long-term systemic effects	888 mg/kg
	Workers	Inhalation	Long-term systemic effects	500 mg/m ³

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N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	Workers	Inhalation	Long-term systemic effects	2.35 mg/m3
	Workers	Skin contact	Long-term systemic effects	0.91 mg/kg

Predicted No Effect Concentration (PNEC):

Substance name	Environmental Compartment	Value
didecyldimethylammonium chloride	Fresh water	0.002 mg/l
	Marine water	0.0002 mg/l
	Fresh water sediment	2.83 mg/kg
	Marine sediment	0.28 mg/kg
	Sewage treatment plant	0.595 mg/l
propan-2-ol	Soil	1.4 mg/kg
	Fresh water	140.9 mg/l
	Marine water	140.9 mg/l
	Fresh water sediment	552 mg/kg
	Marine sediment	552 mg/kg
	Soil	28 mg/kg
	Intermittent use/release	140.9 mg/l
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	Effects on waste water treatment plants	2251 mg/l
	Oral	160 mg/kg food
	Fresh water	0.001 mg/l
	Marine water	0.0001 mg/l
	Fresh water sediment	8.5 mg/kg
	Marine sediment	0.85 mg/kg
	Soil	45.34 mg/kg
	Sewage treatment plant	1.33 mg/l

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 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: 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 : Work uniform or laboratory coat.

Respiratory protection : No personal respiratory protective equipment normally required.
If the occupational exposure limits cannot be met, in exceptional cases suitable respiratory equipment should be worn

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only for a short period of time.

Protective measures : Avoid contact with skin and eyes.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: liquid
Colour	: colourless, -, light yellow
Odour	: characteristic
Odour Threshold	: not determined
pH	: 10 - 11 (20 °C) Concentration: 100 %
Melting point/freezing point	: No data available
Decomposition temperature	No data available
Boiling point/boiling range	: ca. 100 °C
Flash point	: ca. 47 °C Method: DIN 51755 Part 1
Evaporation rate	: No data available
Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit / Lower flammability limit	: No data available
Vapour pressure	: No data available
Relative vapour density	: No data available
Density	: ca. 0.999 g/cm ³ (20 °C)
Solubility(ies) Water solubility	: completely soluble (20 °C)
Auto-ignition temperature	: No data available
Viscosity Viscosity, dynamic	: ca. 28 mPa*s Method: ISO 3219
Explosive properties	: Not explosive
Oxidizing properties	: The substance or mixture is not classified as oxidizing.

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9.2 Other information

Flammability (liquids) : Does not sustain combustion.

Metal corrosion rate : Not corrosive to metals

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 : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : Strong acids and strong bases

10.6 Hazardous decomposition products

None reasonably foreseeable.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Harmful if swallowed.

Product:

Acute oral toxicity : Acute toxicity estimate: 1,286 mg/kg
Method: Calculation method

Components:

didecyldimethylammonium chloride:

Acute oral toxicity : LD50 (Rat): 238 mg/kg
Method: OECD Test Guideline 401
Assessment: Toxic if swallowed.

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : LD50 (Rabbit): 3,342 mg/kg

Alcohol C10-16, ethoxylated:

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Acute oral toxicity : LD50 (Rat): > 300 - 2,000 mg/kg
Method: OECD Test Guideline 423

propan-2-ol:

Acute oral toxicity : LD50 (Rat): 5,840 mg/kg
Acute inhalation toxicity : LC50 (Rat): 39 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Acute dermal toxicity : LD50 (Rabbit): 13,900 mg/kg
Method: OECD Test Guideline 402

N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine:

Acute oral toxicity : LD50 Oral (Rat): 261 mg/kg
Method: OECD Test Guideline 401
Assessment: Toxic if swallowed.
Acute inhalation toxicity : Remarks: No data available
Acute dermal toxicity : LD50 (Rat): > 600 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity

N-dodecylpropane-1,3-diamine:

Acute oral toxicity : Assessment: The component/mixture is moderately toxic after single ingestion.

Skin corrosion/irritation

Causes severe burns.

Components:

didecyldimethylammonium chloride:

Species : Rabbit
Exposure time : 4 h
Method : OECD Test Guideline 404
Result : Corrosive after 3 minutes to 1 hour of exposure

Alcohol C10-16, ethoxylated:

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation

propan-2-ol:

Result : No skin irritation

N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine:

Result : Corrosive after 3 minutes to 1 hour of exposure

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N-dodecylpropane-1,3-diamine:

||Result : Corrosive after 3 minutes or less of exposure

Serious eye damage/eye irritation

Causes serious eye damage.

Components:

didecyldimethylammonium chloride:

||Result : Irreversible effects on the eye

Alcohol C10-16, ethoxylated:

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

propan-2-ol:

||Result : Eye irritation

N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine:

||Result : Irreversible effects on the eye

N-dodecylpropane-1,3-diamine:

||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:

Remarks : May cause sensitisation of susceptible persons by skin contact.

Components:

didecyldimethylammonium chloride:

||Test Type : Buehler Test
||Species : Guinea pig
||Method : OECD Test Guideline 406
||Result : Did not cause sensitisation on laboratory animals.
||GLP : yes

Alcohol C10-16, ethoxylated:

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Test Type	: Maximisation Test
Species	: Guinea pig
Method	: OECD Test Guideline 406
Result	: Not a skin sensitizer.

propan-2-ol:

Test Type	: Buehler Test
Species	: Guinea pig
Result	: Did not cause sensitisation on laboratory animals.

N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine:

Test Type	: Buehler Test
Species	: Guinea pig
Result	: Did not cause sensitisation on laboratory animals.

N-dodecylpropane-1,3-diamine:

Remarks	: No data available
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Germ cell mutagenicity

Not classified based on available information.

Components:

didecyldimethylammonium chloride:

Genotoxicity in vitro	: Test system: Salmonella typhimurium Metabolic activation: Metabolic activation Method: OECD Test Guideline 471 Result: Not mutagenic in Ames Test
Genotoxicity in vivo	: Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis) Species: Rat Application Route: Oral Method: OECD Test Guideline 475 Result: negative
Germ cell mutagenicity- Assessment	: Animal testing did not show any mutagenic effects.

Alcohol C10-16, ethoxylated:

Genotoxicity in vitro	: Test Type: Microbial mutagenesis assay (Ames test) Result: negative
Germ cell mutagenicity- Assessment	: Not mutagenic in Ames Test

propan-2-ol:

Genotoxicity in vitro	: Test Type: Ames test Method: Mutagenicity (Escherichia coli - reverse mutation assay)
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	Result: Non mutagenic
Genotoxicity in vivo	: Species: Mouse Method: Mutagenicity (micronucleus test) Result: Non mutagenic
Germ cell mutagenicity- Assessment	: Not mutagenic in Ames Test

N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine:

Genotoxicity in vitro	: Test Type: reverse mutation assay Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative
Germ cell mutagenicity- Assessment	: Not mutagenic in Ames Test

N-dodecylpropane-1,3-diamine:

Germ cell mutagenicity- Assessment	: No data available
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Carcinogenicity

Not classified based on available information.

Components:

didecyldimethylammonium chloride:

Carcinogenicity - Assessment	: Animal testing did not show any carcinogenic effects.
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Alcohol C10-16, ethoxylated:

Carcinogenicity - Assessment	: No data available
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propan-2-ol:

Remarks	: Based on available data, the classification criteria are not met.
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N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine:

Species	: Rat
Application Route	: Oral
Dose	: 4 - 8 - 20 mg/kg body weight
NOAEL	: 4 mg/kg bw/day
LOAEL	: 8 mg/kg body weight
Method	: OECD Test Guideline 453
GLP	: yes
Remarks	: Animal testing did not show any carcinogenic effects.

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N-dodecylpropane-1,3-diamine:

Carcinogenicity - Assessment : No data available

Reproductive toxicity

Not classified based on available information.

Components:

didecyldimethylammonium chloride:

Reproductive toxicity - Assessment : No data available

Alcohol C10-16, ethoxylated:

Reproductive toxicity - Assessment : No data available

propan-2-ol:

Effects on foetal development : Species: Rat
Application Route: Oral
General Toxicity Maternal: NOAEL: 400 mg/kg body weight
Reproductive toxicity - Assessment : Based on available data, the classification criteria are not met.

N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine:

Reproductive toxicity - Assessment : Did not show teratogenic effects in animal experiments.

N-dodecylpropane-1,3-diamine:

Reproductive toxicity - Assessment : No data available

STOT - single exposure

Not classified based on available information.

Components:

didecyldimethylammonium chloride:

Remarks : No data available

Alcohol C10-16, ethoxylated:

Remarks : No data available

propan-2-ol:

Assessment : May cause drowsiness or dizziness.

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N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine:

||Remarks : No data available

N-dodecylpropane-1,3-diamine:

||Remarks : No data available

STOT - repeated exposure

Not classified based on available information.

Components:

didecyldimethylammonium chloride:

||Remarks : No data available

Alcohol C10-16, ethoxylated:

||Remarks : No data available

propan-2-ol:

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

N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine:

||Target Organs : Kidney
||Assessment : May cause damage to organs through prolonged or repeated exposure.

N-dodecylpropane-1,3-diamine:

||Remarks : No data available

Repeated dose toxicity

Components:

didecyldimethylammonium chloride:

||Remarks : No data available

Alcohol C10-16, ethoxylated:

||Remarks : No data available

propan-2-ol:

||Remarks : No data available

N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine:

||Species : Rat
||NOAEL : 4 mg/kg
||LOAEL : 8 mg/kg
||Application Route : Oral
||Dose : 4 - 8 - 20 mg/kg

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Method : OECD Test Guideline 453
GLP : yes

Species : Rat
NOAEL : 9 mg/kg
Application Route : Oral
Exposure time : 90-day
Method : OECD Test Guideline 408

N-dodecylpropane-1,3-diamine:

Remarks : No data available

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks : No data is available on the product itself.

SECTION 12: Ecological information

12.1 Toxicity

Components:

didecyldimethylammonium chloride:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 0.19 mg/l
Exposure time: 96 h
GLP: yes

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 0.062 mg/l
aquatic invertebrates
Exposure time: 48 h
GLP: yes

Toxicity to algae/aquatic : ErC50 (Pseudokirchneriella subcapitata (green algae)): 0.026
plants
mg/l
Exposure time: 96 h
Method: OECD Test Guideline 201
GLP: yes

M-Factor (Acute aquatic tox- : 10
icity)

Toxicity to fish (Chronic tox- : NOEC: 0.032 mg/l
icity)
Exposure time: 34 d
Species: Danio rerio (zebra fish)
Method: OECD Test Guideline 210

Toxicity to daphnia and other : NOEC: 0.014 mg/l
aquatic invertebrates (Chron-
ic toxicity)
Exposure time: 21 d
Species: Daphnia magna (Water flea)

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Method: Expert judgement and weight of evidence determination.

M-Factor (Chronic aquatic toxicity) : 1

Alcohol C10-16, ethoxylated:

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): > 10 - 100 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 10 - 100 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 10 - 100 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

EC10 (Desmodesmus subspicatus (green algae)): > 1 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: > 1 mg/l
Species: Daphnia magna (Water flea)

propan-2-ol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 9,640 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 10,000 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l
Exposure time: 72 h
Test Type: static test

EC50 (green algae): 1,800 mg/l
Exposure time: 7 d

N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 0.43 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.073 mg/l
Exposure time: 48 h
GLP: yes

Toxicity to algae/aquatic plants : ErC10 (Desmodesmus subspicatus (green algae)): 0.012 mg/l
Exposure time: 72 h

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Method: OECD Test Guideline 201

NOEC (Selenastrum capricornutum (green algae)): > 0.001 - 0.01 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity) : 10

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0.024 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 211

M-Factor (Chronic aquatic toxicity) : 1

N-dodecylpropane-1,3-diamine:

M-Factor (Acute aquatic toxicity) : 1

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

12.2 Persistence and degradability

Components:

didecyldimethylammonium chloride:

Biodegradability : Concentration: 10 mg/l
Result: Readily biodegradable.
Biodegradation: 72 %
Exposure time: 28 d
Method: OECD 301B/ ISO 9439/ EEC 84/449 C5
GLP: yes

Alcohol C10-16, ethoxylated:

Biodegradability : Test Type: aerobic
Result: Readily biodegradable.
Biodegradation: > 60 %
Exposure time: 28 d
Method: OECD Test Guideline 301B
Remarks: This declaration has been derived from products of similar composition.

propan-2-ol:

Biodegradability : Result: Readily biodegradable.

N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine:

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Biodegradability : Result: rapidly biodegradable
Biodegradation: 79 %
Exposure time: 28 d
Method: OECD Test Guideline 301D

N-dodecylpropane-1,3-diamine:

Biodegradability : Remarks: No data available

12.3 Bioaccumulative potential

Components:

didecyldimethylammonium chloride:

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)
Exposure time: 46 d
Bioconcentration factor (BCF): 81

Alcohol C10-16, ethoxylated:

Bioaccumulation : Remarks: None reasonably foreseeable.

propan-2-ol:

Bioaccumulation : Remarks: No bioaccumulation is to be expected (log Pow <= 4).
Partition coefficient: n-octanol/water : log Pow: 0.05 (20 °C)
Method: OECD Test Guideline 107

N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.
Partition coefficient: n-octanol/water : log Pow: -0.7

N-dodecylpropane-1,3-diamine:

Bioaccumulation : Remarks: No data available

12.4 Mobility in soil

Components:

didecyldimethylammonium chloride:

Mobility : Remarks: Mobile in soils

Alcohol C10-16, ethoxylated:

Mobility : Remarks: No data available

propan-2-ol:

Mobility : Remarks: Mobile in soils

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N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine:

Mobility : Remarks: After release, adsorbs onto soil.

N-dodecylpropane-1,3-diamine:

Mobility : Remarks: No data available

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 : No data is available on the product itself.

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.

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

SECTION 14: Transport information

14.1 UN number

ADR : UN 1903

IMDG : UN 1903

IATA : UN 1903

14.2 UN proper shipping name

ADR : DISINFECTANT, LIQUID, CORROSIVE, N.O.S.
(didecyltrimethylammonium chloride, Guanidine, N,N"-1,3-propanediylbis-, N-coco alkyl derivs.)

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IMDG : DISINFECTANT, LIQUID, CORROSIVE, N.O.S.
(didecyldimethylammonium chloride, Guanidine, N,N"-1,3-
propanediylbis-, N-coco alkyl derivs.)

IATA : Disinfectant, liquid, corrosive, n.o.s.
(didecyldimethylammonium chloride, Guanidine, N,N"-1,3-
propanediylbis-, N-coco alkyl derivs.)

14.3 Transport hazard class(es)

ADR : 8

IMDG : 8

IATA : 8

14.4 Packing group

ADR

Packing group : III
Classification Code : C9
Hazard Identification Number : 80
Labels : 8
Tunnel restriction code : (E)

IMDG

Packing group : III
Labels : 8
EmS Code : F-A, S-B

IATA (Cargo)

Packing instruction (cargo aircraft) : 856
Packing instruction (LQ) : Y841
Packing group : III
Labels : Corrosive

IATA (Passenger)

Packing instruction (passenger aircraft) : 852
Packing instruction (LQ) : Y841
Packing group : III
Labels : Corrosive

14.5 Environmental hazards

ADR

Environmentally hazardous : yes

IMDG

Marine pollutant : yes

14.6 Special precautions for user

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

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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

Not applicable for product as supplied.

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 concern (SVHC) for Authorisation	:	Not applicable
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: 14.9 %
according to Detergents Regulation EC 648/2004	:	5 % or over but less than 15 %: Non-ionic surfactants

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. Alcohol C10-16, ethoxylated Reaction mass of (2S)-Alanine, N,N-bis(carboxymethyl)-, trisodium salt and (2R)-Alanine, N,N-bis(carboxymethyl)-, trisodium salt
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

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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

SECTION 16: Other information

Full text of H-Statements

H225	:	Highly flammable liquid and vapour.
H301	:	Toxic if swallowed.
H302	:	Harmful if swallowed.
H314	:	Causes severe skin burns and eye damage.
H318	:	Causes serious eye damage.
H319	:	Causes serious eye irritation.
H336	:	May cause drowsiness or dizziness.
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.

Full text of other abbreviations

Acute Tox.	:	Acute toxicity
Aquatic Acute	:	Short-term (acute) aquatic hazard
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Eye Dam.	:	Serious eye damage
Eye Irrit.	:	Eye irritation
Flam. Liq.	:	Flammable liquids
Skin Corr.	:	Skin corrosion
STOT RE	:	Specific target organ toxicity - repeated exposure
STOT SE	:	Specific target organ toxicity - single exposure
GB EH40	:	UK. EH40 WEL - Workplace Exposure Limits
GB EH40 / TWA	:	Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL	:	Short-term exposure limit (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; 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;

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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:

Acute Tox. 4	H302
Skin Corr. 1B	H314
Eye Dam. 1	H318
Aquatic Acute 1	H400
Aquatic Chronic 2	H411

Classification procedure:

Calculation method
Calculation method
Calculation method
Calculation method
Calculation method

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

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