

gigasept® AF forte **No Change Service!**

Version Revision Date: Date of last issue: 04.04.2018
04.02 26.11.2018 Date of first issue: 21.04.2007

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Trade name : gigasept® AF forte

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

Use of the Sub- : Disinfectants
stance/Mixture

Recommended restrictions : Restricted to professional users.
on use

1.3 Details of the supplier of the safety data sheet

Manufacturer/ Supplier : 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

E-mail address of person : Application Department
responsible for the +49 (0)40/ 521 00 8800
SDS/Contact person ApplicationDepartment.SM@schuelke.com
(Schülke & Mayr UK Ltd.: +44-1142543500)

1.4 Emergency telephone number

Emergency telephone num- : UK Poisons Emergency number: 0870 600 6266
ber

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Acute toxicity, Category 4	H302: Harmful if swallowed.
Skin corrosion, Category 1B	H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Specific target organ toxicity - repeated exposure, Category 2	H373: May cause damage to organs through prolonged or repeated exposure if swallowed.
Short-term (acute) aquatic hazard, Category 1	H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard, Category 1	H410: Very toxic to aquatic life with long lasting effects.

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2.2 Label elements**Labelling (REGULATION (EC) No 1272/2008)**

Hazard pictograms



Signal word

: Danger

Hazard statements

: H302 Harmful if swallowed.
 H314 Causes severe skin burns and eye damage.
 H373 May cause damage to organs (Gastrointestinal tract, Immune system) through prolonged or repeated exposure if swallowed.
 H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

: P260 Do not breathe vapours.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
 P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth.
 P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
 P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

Hazardous components which must be listed on the label:

Cocosalkylpropylendiaminbiguanidiniumdiacetat

90640-43-0
5538-94-3N-dodecylpropane-1,3-diamine
Dimethyldioctylammonium chloride

Special labelling of certain mixtures

: Labelling according to Regulation (EC) No. 648/2004: (5 - 15 % non-ionic surfactants, perfumes)

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.

No special risks known.

SECTION 3: Composition/information on ingredients**3.2 Mixtures**

Chemical nature

: Solution of the following substances with harmless additives.

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Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Dimethyldioctylammonium chloride	5538-94-3 226-901-0 --- ---	Acute Tox. 4; H302 Skin Corr. 1B; H314 Aquatic Acute 1; H400; M = 1	10
Cocosalkylpropylendiamin- biguanidiniumdiacetat	--- 939-650-3 --- 01-2119980967-14- XXXX	Acute Tox. 4; H302 Skin Corr. 1C; H314 STOT RE 2; H373 Aquatic Acute 1; H400; M = 10 Aquatic Chronic 1; H410; M = 1	15,6
N-dodecylpropane-1,3-diamine	90640-43-0 292-562-0 --- 01-2119957843-25- XXXX	Acute Tox. 3; H301 Skin Corr. 1B; H314 STOT RE 1; H372 Aquatic Acute 1; H400; M = 100 Aquatic Chronic 1; H410; M = 1	5 - 10
Tridecylpolyethylenglycolether	69011-36-5 Polymer --- ---	Eye Dam. 1; H318 Aquatic Chronic 3; H412	5 - 15
Ethanol	64-17-5 200-578-6 603-002-00-5 01-2119457610-43- XXXX	Flam. Liq. 2; H225 Eye Irrit. 2; H319	< 5
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	< 5

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.

If inhaled : Move to fresh air.

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- In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes.
If symptoms persist, call a physician.
- In case of eye contact : In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Obtain medical attention.
- 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.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : For specialist advice physicians should contact the Poisons Information Service.
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SECTION 5: Firefighting measures**5.1 Extinguishing media**

- Suitable extinguishing media : Dry powder
Foam
Water spray jet
Carbon dioxide (CO₂)
- Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

- Specific hazards during fire-fighting : No information available.
- Hazardous combustion products : Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x)

5.3 Advice for firefighters

- Special protective equipment : In the event of fire, wear self-contained breathing apparatus for firefighters
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SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

- Personal precautions : Increased risk of slipping in the presence of leaked / spilled product.
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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

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

Advice on safe handling : Prepare the working solution as given on the label(s) and/or the user instructions.

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

Hygiene measures : Take off all contaminated clothing immediately.

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 away from heat. Keep container tightly closed. Recommended storage temperature: 5 - 30°C

Advice on common storage : No materials to be especially mentioned.

7.3 Specific end use(s)

Specific use(s) : none

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:**

Substance name	End Use	Exposure routes	Potential health effects	Value
Ethanol	Workers	Inhalation	Acute effects, Local effects	1900 mg/m ³
	Workers	Skin contact	Chronic effects	343 mg/kg
	Workers	Inhalation	Chronic effects	950 mg/m ³

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Propan-2-ol	Workers	Skin contact	Long-term exposure, Systemic effects	888 mg/kg
	Workers	Inhalation	Long-term exposure, Systemic effects	500 mg/m ³

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Ethanol	Fresh water	0,96 mg/l
	Marine water	0,79 mg/l
	Fresh water sediment	3,6 mg/kg
	Soil	0,63 mg/kg
Propan-2-ol	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
	Effects on waste water treatment plants	2251 mg/l
	Oral	160 mg/kg food

8.2 Exposure controls

Engineering measures

Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment

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

Hand protection
Directive : The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC 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: Nitrile rubber gloves e.g. Camatril (>480 Min., layer thickness: 0,40 mm) or butyl rubber gloves e.g. Butoject (>480 Min., layer thickness: 0,70 mm) made by KCL or gloves from other manufacturers offering the same protection.

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 : green
Odour : characteristic

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Odour Threshold	:	not determined
pH	:	ca. 9,9 (20 °C)
Melting point/freezing point	:	< -5 °C
Decomposition temperature	:	No data available
Boiling point/boiling range	:	ca. 90 °C
Flash point	:	62 °C Method: DIN 51755 Part 1
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Vapour density	:	No data available
Relative density	:	ca. 0,99 g/cm ³ (20 °C)
Solubility(ies) Water solubility	:	in all proportions (20 °C)
Partition coefficient: n-octanol/water	:	Not applicable
Auto-ignition temperature	:	No data available
Viscosity Viscosity, dynamic	:	ca. 60 mPa*s (20 °C) Method: ISO 3219
Explosive properties	:	No data available
Oxidizing properties	:	No data available

9.2 Other information

Flammability (liquids) : Does not sustain combustion.

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

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10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Hazardous reactions : reaction with acids.

10.4 Conditions to avoid

Conditions to avoid : Protect from frost, heat and sunlight.

10.5 Incompatible materials

Materials to avoid : Incompatible with acids.

10.6 Hazardous decomposition products

None reasonably foreseeable.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate: ca. 800 mg/kg
Assessment: Harmful if swallowed.

Acute inhalation toxicity : Acute toxicity estimate: 35 mg/l

Acute dermal toxicity : Acute toxicity estimate: > 10.000 mg/kg

Components:

Dimethyldioctylammonium chloride:

Acute oral toxicity : LD50 (Rat): 200 - 2.000 mg/kg

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : Remarks: No data available

Cocosalkylpropylendiaminbiguanidiniumdiacetat:

Acute oral toxicity : LD50 (Rat): 500 - 2.000 mg/kg
Assessment: Harmful if swallowed.

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : Remarks: No data available

N-dodecylpropane-1,3-diamine:

Acute oral toxicity : LD50 (Rat): 200 mg/kg
Method: OECD Test Guideline 423

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Method : OECD Test Guideline 404

Tridecylpolyethylenglycolether:

Species : Rabbit
Method : OECD Test Guideline 404
Result : According to the classification criteria of the European Union, the product is not considered as being a skin irritant.

Ethanol:

Species : Rabbit
Result : No skin irritation

Propan-2-ol:

Result : No skin irritation

Serious eye damage/eye irritation**Product:**

Assessment : Causes serious eye damage.
Method : Calculation method

Components:**Dimethyldioctylammonium chloride:**

Species : Rabbit
Result : Corrosive

Cocosalkylpropylendiaminbiguanidiniumdiacetat:

Species : Rabbit
Method : OECD Test Guideline 405
Result : Corrosive

N-dodecylpropane-1,3-diamine:

Remarks : Causes eye burns.

Tridecylpolyethylenglycolether:

Species : Rabbit
Method : OECD Test Guideline 405
Result : Causes serious eye damage.

Ethanol:

Species : Rabbit
Assessment : Causes serious eye irritation.
Method : OECD Test Guideline 405

Propan-2-ol:

Result : Causes serious eye irritation.

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Remarks : No data available

Cocosalkylpropylendiaminbiguanidiniumdiacetat:

Remarks : No data available

N-dodecylpropane-1,3-diamine:

Remarks : not applicable, corrosive substance. According Guideline OECD 402 a non- corrosive concentration has to be tested

Tridecylpolyethylenglycolether:Test Type : Maximisation Test
Species : Guinea pig
Result : Did not cause sensitisation on laboratory animals.**Ethanol:**Test Type : Maximisation Test
Species : Guinea pig
Result : Did not cause sensitisation on laboratory animals.**Propan-2-ol:**Test Type : Buehler Test
Species : Guinea pig
Result : Did not cause sensitisation on laboratory animals.**Germ cell mutagenicity****Components:****Dimethyldioctylammonium chloride:**

Germ cell mutagenicity- Assessment : No data available

Cocosalkylpropylendiaminbiguanidiniumdiacetat:Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Method: OECD Test Guideline 471
Result: Non mutagenic
GLP: yes

Germ cell mutagenicity- Assessment : Not mutagenic in Ames Test

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Genotoxicity in vitro : Result: Not mutagenic in Ames Test

Germ cell mutagenicity- Assessment : Not mutagenic in Ames Test

Tridecylpolyethylenglycoether:

Genotoxicity in vitro : Result: Not mutagenic in Ames Test

Germ cell mutagenicity- Assessment : Not mutagenic in Ames Test, Based on available data, the classification criteria are not met.

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

Genotoxicity in vivo : Remarks: Non mutagenic

Germ cell mutagenicity- Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Propan-2-ol:Genotoxicity in vitro : Test Type: Ames test
Method: Mutagenicity (Escherichia coli - reverse mutation assay)
Result: Non mutagenicGenotoxicity in vivo : Species: Mouse
Method: Mutagenicity (micronucleus test)
Remarks: Non mutagenic

Germ cell mutagenicity- Assessment : Not mutagenic in Ames Test

Carcinogenicity**Components:****Dimethyldioctylammonium chloride:**

Carcinogenicity - Assessment : No data available

Cocosalkylpropylendiaminbiguanidiniumdiacetat:

Carcinogenicity - Assessment : No data available

N-dodecylpropane-1,3-diamine:

Carcinogenicity - Assessment : No data available

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Tridecylpolyethylenglycolether:

Carcinogenicity - Assessment : Did not show carcinogenic effects in animal experiments.

Ethanol:

Carcinogenicity - Assessment : Did not show carcinogenic effects in animal experiments.

Propan-2-ol:

Carcinogenicity - Assessment : Based on available data, the classification criteria are not met.

Reproductive toxicity**Components:****Dimethyldioctylammonium chloride:**

Reproductive toxicity - Assessment : No data available

Cocosalkylpropylendiaminbiguanidiniumdiacetat:

Reproductive toxicity - Assessment : No data available

N-dodecylpropane-1,3-diamine:

Reproductive toxicity - Assessment : According to experience not expected

Tridecylpolyethylenglycolether:

Reproductive toxicity - Assessment : Animal testing did not show any effects on fertility., Based on available data, the classification criteria are not met.

Ethanol:Effects on foetal development : Species: Rat
Application Route: Oral
General Toxicity Maternal: NOAEL: 2.000 mg/kg body weight

Reproductive toxicity - Assessment : In animal testing, risk of impaired fertility was shown only after administration of very high doses of this substance.

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.

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STOT - single exposure**Components:****Dimethyldioctylammonium chloride:**

Remarks : No data available

Cocosalkylpropylendiaminbiguanidiniumdiacetat:

|| Remarks : No data available

N-dodecylpropane-1,3-diamine:

Remarks : not determined

Tridecylpolyethylenglycolether:

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

Ethanol:

Remarks : No data available

Propan-2-ol:

Assessment : May cause drowsiness or dizziness.

STOT - repeated exposure**Product:**

Exposure routes : Ingestion
 Target Organs : Immune system, Gastrointestinal tract
 Assessment : May cause damage to organs through prolonged or repeated exposure if swallowed.
 Remarks : Calculation method

Components:**Dimethyldioctylammonium chloride:**

Remarks : No data available

Cocosalkylpropylendiaminbiguanidiniumdiacetat:

|| Exposure routes : Ingestion
 || Assessment : May cause damage to organs through prolonged or repeated exposure if swallowed.

N-dodecylpropane-1,3-diamine:

Exposure routes : Ingestion
 Target Organs : Gastrointestinal tract, Immune system
 Assessment : Causes damage to organs through prolonged or repeated exposure.

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Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Ethanol:

Remarks : No data available

Propan-2-ol:

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

Repeated dose toxicity**Components:****Cocosalkylpropylendiaminbiguanidiniumdiacetat:**

Species : Rat, male and female
NOAEL : 30 mg/kg
Application Route : Oral
Exposure time : 14-days
Method : OECD Test Guideline 407
GLP : yes

N-dodecylpropane-1,3-diamine:

Species : Rat, male and female
Application Route : Ingestion
Exposure time : 90-day
Method : OECD Test Guideline 408
Target Organs : Digestive organs

Tridecylpolyethylenglycolether:

Species : Rat
NOAEL : 50 mg/kg
Application Route : Oral
Exposure time : 2 year
Target Organs : Heart, Liver, Kidney
Symptoms : Gained body weight

Ethanol:

Species : Rat
NOAEL : 1.730 mg/kg
LOAEL : 3.160 mg/kg
Application Route : Oral
Exposure time : 90 d

Aspiration toxicity

No data available

Further information**Product:**

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Remarks : No data is available on the product itself.

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,24 mg/l
Exposure time: 48 h
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

Components:

Dimethyldioctylammonium chloride:

Toxicity to fish : LC50 (Oncorhynchus mykiss): 0,35 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

Toxicity to algae : Remarks: No data available

M-Factor (Acute aquatic toxicity) : 1

Cocosalkylpropylendiaminbiguanidiniumdiacetat:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 0,1 - 1 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

Toxicity to algae : Remarks: No data available

M-Factor (Acute aquatic toxicity) : 10

M-Factor (Chronic aquatic toxicity) : 1

N-dodecylpropane-1,3-diamine:

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): 0,148 mg/l
Exposure time: 96 h

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Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : NOEC (Daphnia magna): 0,032 mg/l
Test Type: Reproduction Test
Method: OECD Test Guideline 211
Remarks: 21 -days

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (microalgae)): 0,0652 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity) : 100

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,032 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 211

M-Factor (Chronic aquatic toxicity) : 1

Tridecylpolyethylenglycoether:

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): > 1 - 10 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1 - 10 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): > 1 - 10 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : NOEC: 1,73 mg/l
Method: QSAR

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 1,36 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Method: QSAR

Ethanol:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 8.140 mg/l
Exposure time: 48 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 5.000 mg/l
Exposure time: 48 h

Toxicity to algae : IC50 (Scenedesmus quadricauda (Green algae)): > 100 mg/l

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Exposure time: 72 h

Propan-2-ol:

Toxicity to fish : LC50 (Leuciscus idus): > 100 mg/l
Exposure time: 48 h
Test Type: static test

Toxicity to daphnia and other : EC50 (Daphnia magna): > 100 mg/l
aquatic invertebrates : Exposure time: 48 h
Test Type: static test

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

12.2 Persistence and degradability**Product:**

Biodegradability : Remarks: According to OECD criteria, the product is inherently biodegradable.
The statement has been derived from the properties of the individual components.

Components:**Dimethyldioctylammonium chloride:**

Biodegradability : Result: Biodegradable

Cocosalkylpropylendiaminbiguanidiniumdiacetat:

Biodegradability : Result: Biodegradable
Method: OECD 301B/ ISO 9439/ EEC 84/449 C5

N-dodecylpropane-1,3-diamine:

Biodegradability : Result: Readily biodegradable.
Method: OECD Test Guideline 301D

Tridecylpolyethylenglycolether:

Biodegradability : Result: rapidly biodegradable
Biodegradation: > 60 %
Exposure time: 28 d
Method: OECD 301B/ ISO 9439/ EEC 84/449 C5

Ethanol:

Biodegradability : Result: Readily biodegradable.

Propan-2-ol:

Biodegradability : Result: Readily biodegradable.

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12.3 Bioaccumulative potential**Components:****Dimethyldioctylammonium chloride:**

Bioaccumulation : Remarks: No data available

Cocosalkylpropylendiaminbiguanidiniumdiacetat:

Bioaccumulation : Remarks: No data available

N-dodecylpropane-1,3-diamine:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Tridecylpolyethylenglycolether:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Ethanol:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-
octanol/water : log Pow: -0,14
Method: Calculated value**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**12.4 Mobility in soil****Components:****Dimethyldioctylammonium chloride:**

Mobility : Remarks: No data available

Cocosalkylpropylendiaminbiguanidiniumdiacetat:

Mobility : Remarks: No data available

N-dodecylpropane-1,3-diamine:

Mobility : Remarks: Mobile in soils

Tridecylpolyethylenglycolether:

Mobility : Remarks: Adsorbs on soil., immobile

Ethanol:

Mobility : Remarks: No data available

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Propan-2-ol:

Mobility : Remarks: Mobile in soils

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..

Components:**Tridecylpolyethylenglycoether:**

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:**

Additional ecological information : No data is available on the product itself.

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Product : Dispose of the product according to the defined EWC (European Waste Code) No.

Contaminated packaging : Take empty packaging to the recycling plant.

Waste key for the unused product : European waste catalog (EWC) 070601

Waste key for the unused product(Group) : Waste material of HZVA from fats, lubricants, soaps, detergents, disinfectants and personal protection products.

SECTION 14: Transport information**14.1 UN number**

IMDG : UN 1903

IATA : UN 1903

14.2 UN proper shipping name

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IMDG : DISINFECTANT, LIQUID, CORROSIVE, N.O.S.
(Cocosalkylpropylendiaminbiguanidiniumdiacetat, Dimethyldi-
octylammonium chloride)

IATA : DISINFECTANT, LIQUID, CORROSIVE, N.O.S.
(Cocosalkylpropylendiaminbiguanidiniumdiacetat, Dimethyldi-
octylammonium chloride)

14.3 Transport hazard class(es)

IMDG : 8
IATA : 8

14.4 Packing group

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

IATA (Cargo)
Packing instruction (cargo aircraft) : 856
Packing group : III
Labels : Corrosive

IATA (Passenger)
Packing group : III
Labels : Corrosive

14.5 Environmental hazards

IMDG
Marine pollutant : yes

14.6 Special precautions for user

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.
For personal protection see section 8.

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

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E1 ENVIRONMENTAL
HAZARDS

Volatile organic compounds : Volatile organic compounds (VOC) content: 4 %
Directive 2010/75/EC on the limitation of emissions of volatile organic compounds

Other regulations:

The surfactant(s) contained in this mixture complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Take note of Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values.

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.
H372 : Causes damage to organs through prolonged or repeated exposure if swallowed.
H373 : May cause damage to organs through prolonged or repeated exposure if swallowed.
H400 : Very toxic to aquatic life.
H410 : Very toxic to aquatic life with long lasting effects.
H412 : Harmful 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

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ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) No. 1272/2008

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

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

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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