

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

Version	Revision Date:	Date of last issue: 04.04.2018
07.00	02.10.2018	Date of first issue: 11.05.2004

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

Trade name : gigasept® instru AF

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

Use of the Sub-
stance/Mixture : Disinfectants

Recommended restrictions
on use : Restricted to professional users.

1.3 Details of the supplier of the safety data sheet

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

1.4 Emergency telephone number

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

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 2	H411: Toxic to aquatic life with long lasting effects.

gigasept® instru AF **No Change Service!**Version
07.00Revision Date:
02.10.2018Date of last issue: 04.04.2018
Date of first issue: 11.05.2004**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 N-dodecylpropane-1,3-diamine
 68424-85-1 Alkyl (C12-16) dimethylbenzyl ammonium chloride
 Special labelling of certain mixtures : Labelling according to Regulation (EC) No. 648/2004: (5 - 15 % non-ionic surfactants, perfumes)

Further information

: 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.

No special risks known.

gigasept® instru AF *No Change Service!*Version
07.00Revision Date:
02.10.2018Date of last issue: 04.04.2018
Date of first issue: 11.05.2004**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)
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
Alkyl (C12-16) dimethylbenzyl ammonium chloride	68424-85-1 270-325-2 --- 01-2119965180-41- XXXX	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Corr. 1B; H314 Aquatic Acute 1; H400; M = 10 Aquatic Chronic 1; H410; M = 1	2,5
Ethanol	64-17-5 200-578-6 603-002-00-5 01-2119457610-43- XXXX	Flam. Liq. 2; H225 Eye Irrit. 2; H319	5 - 15
Tridecylpolyethylenglycoether	69011-36-5 Polymer --- ---	Eye Dam. 1; H318 Aquatic Chronic 3; H412	5 - 15
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
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

For explanation of abbreviations see section 16.

gigasept® instru AF **No Change Service!**Version
07.00Revision Date:
02.10.2018Date of last issue: 04.04.2018
Date of first issue: 11.05.2004

SECTION 4: First aid measures**4.1 Description of first aid measures**

- General advice : Take off all contaminated clothing immediately.
- If inhaled : If symptoms persist, call a physician.
- 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.

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 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 : Do not use a solid water stream as it may scatter and spread fire.
- Hazardous combustion products : Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x)

5.3 Advice for firefighters

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

gigasept® instru AF **No Change Service!**Version
07.00Revision Date:
02.10.2018Date of last issue: 04.04.2018
Date of first issue: 11.05.2004

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.
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

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 : Keep away from food and drink.

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.

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

7.3 Specific end use(s)

Specific use(s) : none

gigasept® instru AF *No Change Service!*Version
07.00Revision Date:
02.10.2018Date of last issue: 04.04.2018
Date of first issue: 11.05.2004**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
Alkyl (C12-16) dimethylbenzyl ammonium chloride	Workers	Skin contact	Long-term systemic effects	5,7 mg/kg
	Workers	Inhalation	Long-term systemic effects	3,96 mg/m ³
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
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
Alkyl (C12-16) dimethylbenzyl ammonium chloride	Fresh water	0,0009 mg/l
	Marine water	0,00009 mg/l
	Fresh water sediment	12,27 mg/kg
	Marine sediment	13,09 mg/kg
	Soil	7 mg/kg
	Effects on waste water treatment plants	0,4 mg/l
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
	Effects on waste water treatment plants	2251 mg/l
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

gigasept® instru AF**No Change Service!**Version
07.00Revision Date:
02.10.2018

Date of last issue: 04.04.2018

Date of first issue: 11.05.2004

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.
Respiratory protection	:	No personal respiratory protective equipment normally required.
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	:	amine-like
Odour Threshold	:	not determined
pH	:	ca. 9 (20 °C)
Melting point/freezing point	:	< -5 °C
Decomposition temperature	:	No data available
Boiling point/boiling range	:	ca. 90 °C
Flash point	:	36 °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 density	:	No data available
Relative density	:	ca. 0,99 g/cm ³ (20 °C)

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

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

Version Revision Date: Date of last issue: 04.04.2018
07.00 02.10.2018 Date of first issue: 11.05.2004

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. 30 mPa*s (20 °C)
Method: DIN 54453

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.

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Hazardous reactions : None reasonably foreseeable.

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. 1.300 mg/kg
Assessment: Harmful if swallowed.

Acute inhalation toxicity : Acute toxicity estimate: 14,7 mg/l

gigasept® instru AF *No Change Service!*Version
07.00Revision Date:
02.10.2018Date of last issue: 04.04.2018
Date of first issue: 11.05.2004

Acute dermal toxicity : Acute toxicity estimate: 4.839 mg/kg

Components:**Cocosalkylpropylendiaminbiguanidiumdiacetat:**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

Alkyl (C12-16) dimethylbenzyl ammonium chloride:Acute oral toxicity : LD50 (Rat): 300 - 2.000 mg/kg
Method: OECD Test Guideline 401
Assessment: Harmful if swallowed.

Acute inhalation toxicity : LC50 (Rat): > 2 mg/l

Acute dermal toxicity : LD50 (Rat): 1.100 mg/kg
Assessment: Harmful in contact with skin.**Ethanol:**

Acute oral toxicity : LD50 (Mouse): 8.300 mg/kg

Acute inhalation toxicity : LC50 (Mouse): 39 mg/l
Exposure time: 4 h

Acute dermal toxicity : LD50 (Rabbit): 20.000 mg/kg

Tridecylpolyethylenglycolether:Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : LD50 (Rat): > 5.000 mg/kg

Propan-2-ol:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 39 mg/l
Exposure time: 4 h

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg

N-dodecylpropane-1,3-diamine:Acute oral toxicity : LD50 (Rat): 200 mg/kg
Method: OECD Test Guideline 423

gigasept® instru AF *No Change Service!*

Version 07.00 Revision Date: 02.10.2018 Date of last issue: 04.04.2018
Date of first issue: 11.05.2004

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : Remarks: No data available

Skin corrosion/irritation**Product:**

Assessment : Causes severe skin burns and eye damage.
Method : Calculation method

Components:**Cocosalkylpropylendiaminbiguanidiniumdiacetat:**

Species : Rabbit
Exposure time : 4 h
Method : OECD Test Guideline 404
Result : Corrosive

Alkyl (C12-16) dimethylbenzyl ammonium chloride:

Result : Corrosive

Ethanol:

Species : Rabbit
Result : No skin irritation

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.

Propan-2-ol:

Result : No skin irritation

N-dodecylpropane-1,3-diamine:

Species : Rabbit
Assessment : Causes severe skin burns and eye damage.
Method : OECD Test Guideline 404

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

Assessment : Causes serious eye damage.
Method : Calculation method

gigasept® instru AF **No Change Service!**Version
07.00Revision Date:
02.10.2018Date of last issue: 04.04.2018
Date of first issue: 11.05.2004**Components:****Cocosalkylpropylendiaminbiguanidiniumdiacetat:**

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

Alkyl (C12-16) dimethylbenzyl ammonium chloride:

Result : Corrosive

Ethanol:

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

Tridecylpolyethylenglycolether:

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

Propan-2-ol:

Result : Causes serious eye irritation.

N-dodecylpropane-1,3-diamine:

Remarks : Causes eye burns.

Respiratory or skin sensitisation**Components:****Cocosalkylpropylendiaminbiguanidiniumdiacetat:**

Remarks : No data available

Alkyl (C12-16) dimethylbenzyl ammonium chloride:

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.

Tridecylpolyethylenglycolether:

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

gigasept® instru AF *No Change Service!*

Version 07.00 Revision Date: 02.10.2018 Date of last issue: 04.04.2018
 Date of first issue: 11.05.2004

Propan-2-ol:

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

N-dodecylpropane-1,3-diamine:

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

Germ cell mutagenicity**Components:****Cocosalkylpropylendiaminbiguanidiniumdiacetat:**

Germ cell mutagenicity- Assessment : No data available

Alkyl (C12-16) dimethylbenzyl ammonium chloride:

Genotoxicity in vitro : Result: Not mutagenic in Ames Test

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

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.

Tridecylpolyethylenglycolether:

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.

Propan-2-ol:

Genotoxicity in vitro : Test Type: Ames test
 Method: Mutagenicity (Escherichia coli - reverse mutation assay)
 Result: Non mutagenic

Genotoxicity in vivo : Species: Mouse
 Method: Mutagenicity (micronucleus test)
 Remarks: Non mutagenic

Germ cell mutagenicity- Assessment : Not mutagenic in Ames Test

gigasept® instru AF *No Change Service!*Version
07.00Revision Date:
02.10.2018Date of last issue: 04.04.2018
Date of first issue: 11.05.2004

N-dodecylpropane-1,3-diamine:

Genotoxicity in vitro : Result: Not mutagenic in Ames Test

Germ cell mutagenicity- Assessment : Not mutagenic in Ames Test

Carcinogenicity**Components:****Cocosalkylpropylendiaminbiguanidiniumdiacetat:**

Carcinogenicity - Assessment : No data available

Alkyl (C12-16) dimethylbenzyl ammonium chloride:

Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects.

Ethanol:

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

Tridecylpolyethylenglycolether:

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.

N-dodecylpropane-1,3-diamine:

Carcinogenicity - Assessment : No data available

Reproductive toxicity**Components:****Cocosalkylpropylendiaminbiguanidiniumdiacetat:**

Reproductive toxicity - Assessment : No data available

Alkyl (C12-16) dimethylbenzyl ammonium chloride:

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

Ethanol:

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

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gigasept® instru AF

No Change Service!

Version
07.00

Revision Date:
02.10.2018

Date of last issue: 04.04.2018
Date of first issue: 11.05.2004

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.

Tridecylpolyethylenglycolether:

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

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-dodecylpropane-1,3-diamine:

Reproductive toxicity - Assessment : According to experience not expected

STOT - single exposure

Components:

Alkyl (C12-16) dimethylbenzyl ammonium chloride:

Remarks : No data available

Ethanol:

Remarks : No data available

Tridecylpolyethylenglycolether:

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

Propan-2-ol:

Assessment : May cause drowsiness or dizziness.

N-dodecylpropane-1,3-diamine:

Remarks : not determined

STOT - repeated exposure

Product:

Exposure routes : Ingestion
Target Organs : Immune system, Gastrointestinal tract

gigasept® instru AF *No Change Service!*

Version 07.00 Revision Date: 02.10.2018 Date of last issue: 04.04.2018
Date of first issue: 11.05.2004

Assessment : May cause damage to organs through prolonged or repeated exposure if swallowed.
Remarks : Calculation method

Components:**Alkyl (C12-16) dimethylbenzyl ammonium chloride:**

Remarks : No data available

Ethanol:

Remarks : No data available

Tridecylpolyethylenglycoether:

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

Propan-2-ol:

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

N-dodecylpropane-1,3-diamine:

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

Repeated dose toxicity**Components:****Ethanol:**

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

Tridecylpolyethylenglycoether:

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

N-dodecylpropane-1,3-diamine:

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

gigasept® instru AF *No Change Service!*

Version 07.00 Revision Date: 02.10.2018 Date of last issue: 04.04.2018
Date of first issue: 11.05.2004

Target Organs : Digestive organs

Aspiration toxicity

No data available

Further information**Product:**

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)): 0,28 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 : Toxic to aquatic life with long lasting effects.

Components:**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

Alkyl (C12-16) dimethylbenzyl ammonium chloride:

Toxicity to fish : LC50 : 0,85 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna): 0,015 mg/l
Exposure time: 48 h

Toxicity to algae : IC50 : 0,03 mg/l

gigasept® instru AF **No Change Service!**Version
07.00Revision Date:
02.10.2018Date of last issue: 04.04.2018
Date of first issue: 11.05.2004

Exposure time: 72 h

M-Factor (Acute aquatic toxicity) : 10

Toxicity to fish (Chronic toxicity) : NOEC: 0,032 mg/l
Exposure time: 34 d
Species: Pimephales promelas (fathead minnow)Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,0042 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)

M-Factor (Chronic aquatic toxicity) : 1

Ethanol:Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 8.140 mg/l
Exposure time: 48 hToxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 5.000 mg/l
Exposure time: 48 hToxicity to algae : IC50 (Scenedesmus quadricauda (Green algae)): > 100 mg/l
Exposure time: 72 h**Tridecylpolyethylenglycolether:**Toxicity to fish : LC50 (Cyprinus carpio (Carp)): > 1 - 10 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1 - 10 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): > 1 - 10 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201Toxicity to fish (Chronic toxicity) : NOEC: 1,73 mg/l
Method: QSARToxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 1,36 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Method: QSAR**Propan-2-ol:**Toxicity to fish : LC50 (Leuciscus idus): > 100 mg/l
Exposure time: 48 h
Test Type: static test

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

Version 07.00 Revision Date: 02.10.2018 Date of last issue: 04.04.2018
 Date of first issue: 11.05.2004

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna): > 100 mg/l
 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

N-dodecylpropane-1,3-diamine:

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

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.

Chemical Oxygen Demand (COD) : 18.323 mg/l
 Test substance: 1 % solution

Components:**Cocosalkylpropylendiaminbiguanidiniumdiacetat:**

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

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Version 07.00 Revision Date: 02.10.2018 Date of last issue: 04.04.2018
 Date of first issue: 11.05.2004

Alkyl (C12-16) dimethylbenzyl ammonium chloride:

Biodegradability : Result: Readily biodegradable.
 Method: OECD 301D / EEC 84/449 C6

Ethanol:

Biodegradability : Result: Readily biodegradable.

Tridecylpolyethylenglycolether:

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

Propan-2-ol:

Biodegradability : Result: Readily biodegradable.

N-dodecylpropane-1,3-diamine:

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

12.3 Bioaccumulative potential**Components:****Cocosalkylpropylendiaminbiguanidiniumdiacetat:**

Bioaccumulation : Remarks: No data available

Alkyl (C12-16) dimethylbenzyl ammonium chloride:

Bioaccumulation : Remarks: Does not bioaccumulate.

Ethanol:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: -0,14
 Method: Calculated value

Tridecylpolyethylenglycolether:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

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-dodecylpropane-1,3-diamine:

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07.00Revision Date:
02.10.2018Date of last issue: 04.04.2018
Date of first issue: 11.05.2004

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

12.4 Mobility in soil**Components:****Cocosalkylpropylendiaminbiguanidiniumdiacetat:**

Mobility : Remarks: No data available

Alkyl (C12-16) dimethylbenzyl ammonium chloride:

Mobility : Remarks: No data available

Ethanol:

Mobility : Remarks: No data available

Tridecylpolyethylenglycoether:

Mobility : Remarks: Adsorbs on soil., immobile

Propan-2-ol:

Mobility : Remarks: Mobile in soils

N-dodecylpropane-1,3-diamine:

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.

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

Version	Revision Date:	Date of last issue: 04.04.2018
07.00	02.10.2018	Date of first issue: 11.05.2004

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

IMDG	:	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Cocosalkylpropylendiaminbiguanidiniumdiacetat, Alkyl (C12-16) dimethylbenzyl ammonium chloride)
IATA	:	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Cocosalkylpropylendiaminbiguanidiniumdiacetat, Alkyl (C12-16) dimethylbenzyl ammonium 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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

schülke -t

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

Version Revision Date: Date of last issue: 04.04.2018
07.00 02.10.2018 Date of first issue: 11.05.2004

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.

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.

E1 ENVIRONMENTAL HAZARDS

Volatile organic compounds : Volatile organic compounds (VOC) content: 10 %
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

gigasept® instru AF **No Change Service!**
Version
07.00Revision Date:
02.10.2018Date of last issue: 04.04.2018
Date of first issue: 11.05.2004
SECTION 16: Other information
Full text of H-Statements

H225	: Highly flammable liquid and vapour.
H301	: Toxic if swallowed.
H302	: Harmful if swallowed.
H312	: Harmful in contact with skin.
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

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, Bioaccumu-

gigasept® instru AF **No Change Service!**Version
07.00Revision Date:
02.10.2018Date of last issue: 04.04.2018
Date of first issue: 11.05.2004

lative 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 2, H411	: 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.