

gigasept® instru AFVersion
06.00Revision Date:
17.10.2020Date of last issue: 07.05.2020
Date of first issue: 07.01.2014**1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : gigasept® instru AF

Manufacturer or supplier's detailsManufacturer/ Supplier : Schülke & Mayr GmbH
Robert-Koch-Str. 222851 Norderstedt
Germany
Telephone: +49 (0)40/ 52100-0
Telefax: +49 (0)40/ 52100318
mail@schuelke.com
www.schuelke.comEmergency telephone number : UK Poisons Emergency number: 0870 600 6266
Carechem 24 International: +44 1235 239670**Recommended use of the chemical and restrictions on use**

Recommended use : Disinfectants

Restrictions on use : Restricted to professional users.

2. HAZARDS IDENTIFICATION**GHS Classification**

Acute toxicity (Oral) : Category 4

Skin corrosion/irritation : Category 1

Serious eye damage/eye irritation : Category 1

Specific target organ toxicity - repeated exposure (Oral) : Category 2

Short-term (acute) aquatic hazard : Category 1

Long-term (chronic) aquatic hazard : Category 2

GHS label elements

Hazard pictograms :



Signal word : Danger

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- 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 : **Prevention:**
P260 Do not breathe vapours.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
- Response:**
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.

Other hazards which do not result in classification

No hazards to be specially mentioned.

3. COMPOSITION/INFORMATION ON INGREDIENTS

- Substance / Mixture : Mixture
- Chemical nature : Solution of the following substances with harmless additives.

Components

Chemical name	CAS-No.	Concentration (% w/w)
1-phenoxypropan-2-ol	770-35-4	>= 30 -< 50
Cocosalkylpropylendiaminbiguanidiniumdiacetat	Not Assigned	>= 10 -< 20
Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched	69011-36-5	>= 10 -< 20
ethanol	64-17-5	>= 1 -< 10
Amines, N-C12-14-alkyltrimethylenedi-	90640-43-0	>= 5 -< 10
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1	>= 2,5 -< 3
propan-2-ol	67-63-0	>= 1 -< 10

4. FIRST AID MEASURES

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

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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. |
| Most important symptoms and effects, both acute and delayed | : | Treat symptomatically. |
| Notes to physician | : | For specialist advice physicians should contact the Poisons Information Service. |
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5. FIREFIGHTING MEASURES

- | | | |
|---|---|--|
| Suitable extinguishing media | : | Dry powder
Foam
Carbon dioxide (CO ₂)
Water spray jet |
| Unsuitable extinguishing media | : | Do NOT use water jet. |
| Hazardous combustion products | : | Carbon dioxide (CO ₂), carbon monoxide (CO), oxides of nitrogen (NO _x) |
| Special protective equipment for firefighters | : | In the event of fire, wear self-contained breathing apparatus. |
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6. ACCIDENTAL RELEASE MEASURES

- | | | |
|---|---|---|
| Personal precautions, protective equipment and emergency procedures | : | Increased risk of slipping in the presence of leaked / spilled product.
Use personal protective equipment. |
| Environmental precautions | : | Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration. |
| Methods and materials for containment and 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). |
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7. HANDLING AND STORAGE

- | | | |
|---|---|---|
| Advice on protection against fire and explosion | : | No special protective measures against fire required. |
|---|---|---|
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- Advice on safe handling : Never mix concentrates directly.
- Conditions for safe storage : 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 - 25°C
- Materials to avoid : No materials to be especially mentioned.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Components with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
ethanol	64-17-5	PEL (long term)	1.000 ppm 1.880 mg/m ³	SG OEL
		STEL	1.000 ppm	ACGIH
propan-2-ol	67-63-0	PEL (long term)	400 ppm 983 mg/m ³	SG OEL
		PEL (short term)	500 ppm 1.230 mg/m ³	SG OEL
		TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
propan-2-ol	67-63-0	Acetone	Urine	End of shift at end of work-week	40 mg/l	ACGIH BEI

- Engineering measures** : Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment

- Respiratory protection : No personal respiratory protective equipment normally required.
- 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. Pro-

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longed 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.

Eye protection	:	Safety glasses with side-shields conforming to EN166
Skin and body protection	:	Work uniform or laboratory coat.
Protective measures	:	Avoid contact with skin and eyes.
Hygiene measures	:	Keep away from food and drink.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	green
Odour	:	amine-like
Odour Threshold	:	not determined
pH	:	9,1 - 9,5 (20 °C) Concentration: 100 %
Melting point/freezing point	:	< -5 °C
Decomposition temperature	:	No data available
Boiling point/boiling range	:	ca. 90 °C
Flash point	:	40,5 °C Method: ISO 3679
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	Does not sustain combustion.
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Relative vapour density	:	No data available

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Density	:	ca. 0,99 g/cm ³ (20 °C)
Solubility(ies)		
Water solubility	:	completely soluble (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
Refractive index	:	1,455 - 1,461

10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	The product is chemically stable.
Possibility of hazardous reactions	:	None reasonably foreseeable.
Conditions to avoid	:	Protect from frost, heat and sunlight.
Incompatible materials	:	Incompatible with acids.
Hazardous decomposition products	:	None reasonably foreseeable.

11. TOXICOLOGICAL INFORMATION**Acute toxicity****Product:**

Acute oral toxicity	:	Acute toxicity estimate: 1.195 mg/kg Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate: > 2.000 mg/kg Method: Calculation method

Components:**1-phenoxypropan-2-ol:**

Acute oral toxicity	:	LD50 (Rat): > 2.000 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	:	LC50 (Rat): > 5,4 mg/l

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Exposure time: 4 h
 Test atmosphere: dust/mist
 Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg
 Method: OECD Test Guideline 402

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

Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched:

Acute oral toxicity : LD50 (Rat): > 300 - 2.000 mg/kg

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : LD50: > 5.000 mg/kg
 Method: literature value

ethanol:

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

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

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

Amines, N-C12-14-alkyltrimethylenedi-:

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

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : Remarks: No data available

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides:

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
 Test atmosphere: dust/mist

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

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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

Skin corrosion/irritation**Product:**

Remarks : Causes severe skin burns and eye damage.

Components:**1-phenoxypropan-2-ol:**

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

Cocosalkylpropylendiaminbiguanidiniumdiacetat:

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

Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched:

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

ethanol:

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

Amines, N-C12-14-alkyltrimethylenedi-:

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

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides:

Species	: Rabbit
Result	: Corrosive after 3 minutes to 1 hour of exposure
GLP	: no

propan-2-ol:

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Remarks : Causes serious eye damage.

Components:**1-phenoxypropan-2-ol:****||**Species : Rabbit
||Result : Eye irritation
||Method : OECD Test Guideline 405**Cocosalkylpropylendiaminbiguanidiniumdiacetat:****||**Species : Rabbit
||Result : Irreversible effects on the eye
||Method : OECD Test Guideline 405**Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched:****||**Species : Rabbit
||Result : Irreversible effects on the eye
||Method : Draize Test**ethanol:****||**Result : Eye irritation
||Method : OECD Test Guideline 405**Amines, N-C12-14-alkyltrimethylenedi-:****||**Remarks : Causes eye burns.**Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides:****||**Result : Irreversible effects on the eye**propan-2-ol:****||**Result : Eye irritation**Respiratory or skin sensitisation****Components:****1-phenoxypropan-2-ol:****||**Species : Guinea pig
||Method : OECD Test Guideline 406
||Result : Not a skin sensitizer.**Cocosalkylpropylendiaminbiguanidiniumdiacetat:****||**Remarks : No data available

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Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched:

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

ethanol:

Test Type	: Maximisation Test
Species	: Guinea pig
Method	: OECD Test Guideline 406
Result	: Did not cause sensitisation on laboratory animals.

Amines, N-C12-14-alkyltrimethylenedi-:

Remarks	: not applicable, corrosive substance. According Guideline OECD 402 a non- corrosive concentration has to be tested
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Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides:

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

propan-2-ol:

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

Germ cell mutagenicity**Components:****1-phenoxypropan-2-ol:**

Genotoxicity in vitro	: Test Type: Microbial mutagenesis assay (Ames test) Method: OECD Test Guideline 471 Result: negative
Genotoxicity in vivo	: Test Type: Micronucleus test Species: Mouse Method: OECD Test Guideline 474 Result: negative

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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Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched:

Genotoxicity in vitro : Test Type: Microbial mutagenesis assay (Ames test)
 Test system: Salmonella typhimurium
 Metabolic activation: with and without metabolic activation
 Result: negative

ethanol:

Genotoxicity in vitro : Test Type: Microbial mutagenesis assay (Ames test)
 Test system: Salmonella typhimurium
 Metabolic activation: with and without metabolic activation
 Method: OECD Test Guideline 471
 Result: Not mutagenic in Ames Test

Genotoxicity in vivo : Result: Non mutagenic

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

Amines, N-C12-14-alkyltrimethylenedi-:

Genotoxicity in vitro : Test Type: Microbial mutagenesis assay (Ames test)
 Test system: Salmonella typhimurium
 Metabolic activation: with and without metabolic activation
 Method: OECD Test Guideline 471
 Result: Not mutagenic in Ames Test
 GLP: yes

Genotoxicity in vivo : Test Type: Micronucleus test
 Species: Mouse (male and female)
 Application Route: Oral
 Result: negative

Germ cell mutagenicity - Assessment : Not mutagenic in Ames Test

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides:

Genotoxicity in vitro : Test Type: Microbial mutagenesis assay (Ames test)
 Test system: Salmonella typhimurium
 Metabolic activation: with and without metabolic activation
 Method: OECD Test Guideline 471
 Result: Not mutagenic in Ames Test

Genotoxicity in vivo : Test Type: In vivo micronucleus test
 Species: Mouse (male and female)
 Application Route: Oral
 Method: OECD Test Guideline 474
 GLP: yes

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

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

Carcinogenicity**Components:****1-phenoxypropan-2-ol:**

Remarks : This information is not available.

Cocosalkylpropylendiaminbiguanidiniumdiacetat:

Carcinogenicity - Assessment : No data available

Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched:

Remarks : This information is not available.

ethanol:

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

Amines, N-C12-14-alkyltrimethylenedi-:

Remarks : This information is not available.

Carcinogenicity - Assessment : No data available

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides:

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

propan-2-ol:

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

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

Reproductive toxicity**Components:****1-phenoxypropan-2-ol:**

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Effects on fertility	: Test Type: Two-generation study Species: Rat Application Route: Oral General Toxicity - Parent: NOAEL: 477,5 mg/kg bw/day Method: OECD Test Guideline 416 Result: Animal testing did not show any effects on fertility.
Effects on foetal development	: Species: Rat Application Route: Oral General Toxicity Maternal: NOAEL: 180 mg/kg bw/day Developmental Toxicity: NOAEL: 180 mg/kg bw/day Method: OECD Test Guideline 414 Result: No effects on fertility and early embryonic development were detected.

Cocosalkylpropylendiaminbiguanidiniumdiacetat:

Effects on foetal development	: Test Type: Fertility/early embryonic development Species: Rat, female Application Route: Oral General Toxicity Maternal: NOAEL: 15 mg/kg body weight Teratogenicity: NOAEL: 125 mg/kg body weight Developmental Toxicity: NOAEL: 45 mg/kg body weight Embryo-foetal toxicity: NOAEL: 45 mg/kg body weight Method: OECD Test Guideline 414 GLP: yes
Reproductive toxicity - Assessment	: No data available

Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched:

Effects on fertility	: Remarks: Animal testing did not show any effects on fertility.
Effects on foetal development	: Remarks: No effects on fertility and early embryonic development were detected.

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.

Amines, N-C12-14-alkyltrimethylenedi-:

Effects on foetal development	: Test Type: Pre-natal Species: Rat Strain: wistar Application Route: Oral Dose: 1.25, 5.0, 20.0 milligram per kilogram Teratogenicity: NOAEL: 20 mg/kg body weight
Reproductive toxicity - Assessment	: According to experience not expected

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Effects on fertility	: Test Type: Two-generation study Species: Rat, male and female Application Route: Oral General Toxicity - Parent: NOAEL: 51 - 102 mg/kg body weight General Toxicity F1: NOAEL: 41 - 83 mg/kg body weight Fertility: NOAEL: 139 - 198 mg/kg body weight Method: OECD Test Guideline 416 Result: Animal testing did not show any effects on fertility. GLP: yes
Effects on foetal development	: Species: Rat Application Route: Oral General Toxicity Maternal: NOAEL: 8,1 mg/kg body weight Developmental Toxicity: NOAEL: 81 mg/kg body weight Method: OECD Test Guideline 414 GLP: yes Remarks: Animal testing did not show any effects on foetal development.
Reproductive toxicity - Assessment	: Animal testing did not show any effects on fertility.

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.

STOT - single exposure**Components:****1-phenoxypropan-2-ol:**

Remarks	: No data available
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Cocosalkylpropylendiaminbiguanidiniumdiacetat:

Remarks	: No data available
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Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched:

Remarks	: No data available
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ethanol:

Remarks	: No data available
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Gastrointestinal tract
Immune system
May cause damage to organs through prolonged or repeated exposure.**Components:****1-phenoxypropan-2-ol:****||**Remarks : No data available**Cocosalkylpropylendiaminbiguanidiniumdiacetat:****||**Exposure routes : Ingestion
||Assessment : May cause damage to organs through prolonged or repeated exposure.**Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched:****||**Remarks : No data available**ethanol:****||**Remarks : No data available**Amines, N-C12-14-alkyltrimethylenedi-:****||**Exposure routes : Ingestion
||Target Organs : Gastrointestinal tract, Immune system
||Assessment : Causes damage to organs through prolonged or repeated exposure.**Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides:****||**Remarks : No data available**propan-2-ol:****||**Remarks : Based on available data, the classification criteria are not met.

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

Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched:

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

ethanol:

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

Amines, N-C12-14-alkyltrimethylenedi-:

Species	: Rat, male and female
NOAEL	: 0,4 mg/l
Application Route	: Ingestion
Exposure time	: 90-day
Dose	: 0.1, 0.4, 1.5, 6
Method	: OECD Test Guideline 408
Target Organs	: Digestive organs

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides:

Species	: Rat, male
NOAEL	: 31 mg/kg
Application Route	: Oral
Exposure time	: 90-day
Method	: OECD Test Guideline 408
GLP	: yes

propan-2-ol:

Remarks	: No data available
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Further information**Product:**

Remarks	: No data is available on the product itself.
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12. ECOLOGICAL INFORMATION**Ecotoxicity****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

Components:**1-phenoxypropan-2-ol:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 280 mg/l
 Exposure time: 96 h
 Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): 370 mg/l
 Exposure time: 48 h
 Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l
 Exposure time: 72 h
 Method: OECD Test Guideline 201

ErC10 (Desmodesmus subspicatus (green algae)): 55,5 mg/l
 Exposure time: 72 h
 Method: OECD Test Guideline 201

Cocosalkylpropylendiaminbiguanidiniumdiacetat:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 0,707 mg/l
 Exposure time: 96 h
 Analytical monitoring: yes
 Method: OECD Test Guideline 203
 GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,058 mg/l
 Exposure time: 48 h
 Method: OECD Test Guideline 202
 GLP: yes

Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): 0,0197 mg/l
 Exposure time: 72 h
 Analytical monitoring: yes
 Method: OECD Test Guideline 201
 GLP: yes

NOEC (Desmodesmus subspicatus (green algae)): 0,00316 mg/l
 Exposure time: 72 h
 Analytical monitoring: yes

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Method: OECD Test Guideline 201

GLP: yes

M-Factor (Acute aquatic toxicity) : 10

Toxicity to fish (Chronic toxicity) : NOEC (Danio rerio (zebra fish)): 0,125 mg/l
 Exposure time: 9 d
 Method: OECD Test Guideline 212
 GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0,025 mg/l
 Exposure time: 21 d
 Method: OECD Test Guideline 211
 GLP: yes

M-Factor (Chronic aquatic toxicity) : 1

Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 2,5 mg/l
 Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1,5 mg/l
 Exposure time: 48 h

Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): 2,5 mg/l
 Exposure time: 72 h

EC10 (Desmodesmus subspicatus (green algae)): 0,6 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 (Daphnia magna (Water flea)): 1,36 mg/l
 Exposure time: 21 d
 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/aquatic plants : IC50 (Scenedesmus quadricauda (Green algae)): > 100 mg/l
 Exposure time: 72 h

Amines, N-C12-14-alkyltrimethylenedi-

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/aquatic plants	: EC50 (Pseudokirchneriella subcapitata (microalgae)): 0,0652 mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201
M-Factor (Acute aquatic toxicity)	: 100
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC (Daphnia magna (Water flea)): 0,032 mg/l Exposure time: 21 d Method: OECD Test Guideline 211
M-Factor (Chronic aquatic toxicity)	: 1
Toxicity to microorganisms	: EC50: 68 mg/l Method: OECD 209

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides:

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/aquatic plants	: IC50: 0,03 mg/l Exposure time: 72 h
M-Factor (Acute aquatic toxicity)	: 10
Toxicity to fish (Chronic toxicity)	: NOEC (Pimephales promelas (fathead minnow)): 0,032 mg/l Exposure time: 34 d
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC (Daphnia magna (Water flea)): 0,0042 mg/l Exposure time: 21 d
M-Factor (Chronic aquatic toxicity)	: 1

propan-2-ol:

Toxicity to fish	: LC50 (Pimephales promelas (fathead minnow)): 9.640 mg/l Exposure time: 96 h
Toxicity to daphnia and other	: EC50 (Daphnia magna (Water flea)): 10.000 mg/l

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aquatic invertebrates	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

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.
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Components:**1-phenoxypropan-2-ol:**

Biodegradability	: Result: Readily biodegradable. Biodegradation: 72 % Exposure time: 28 d Method: OECD Test Guideline 301F
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Cocosalkylpropylendiaminbiguanidiniumdiacetat:

Biodegradability	: Concentration: 5 mg/l Result: Biodegradable Biodegradation: 64 % Exposure time: 28 d Method: OECD 301B/ ISO 9439/ EEC 84/449 C5 GLP: no
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Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched:

Biodegradability	: aerobic Inoculum: activated sludge Result: Readily biodegradable. Biodegradation: > 60 % Exposure time: 28 d Method: OECD Test Guideline 301B
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ethanol:

Biodegradability	: aerobic Result: Readily biodegradable. Biodegradation: > 70 % Exposure time: 5 d Method: OECD 301D / EEC 84/449 C6
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Amines, N-C12-14-alkyltrimethylenedi-:

Biodegradability	: Result: Readily biodegradable. Biodegradation: 66 %
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Date of first issue: 07.01.2014Exposure time: 28 d
Method: OECD Test Guideline 301D**Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides:**Biodegradability : Concentration: 5 mg/l
Result: Readily biodegradable.
Biodegradation: 95,5 %
Exposure time: 28 d
Method: OECD Test Guideline 301B**propan-2-ol:**

Biodegradability : Result: Readily biodegradable.

Bioaccumulative potential**Components:****1-phenoxypropan-2-ol:**Partition coefficient: n- : log Pow: 1,41 (24,1 °C)
octanol/water Method: OECD Test Guideline 107**Cocosalkylpropylendiaminbiguanidiniumdiacetat:**

Bioaccumulation : Remarks: No data available

Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched:

Bioaccumulation : Remarks: None reasonably foreseeable.

Partition coefficient: n- : Remarks: Not applicable
octanol/water**ethanol:**

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n- : log Pow: -0,14
octanol/water Method: Calculated value**Amines, N-C12-14-alkyltrimethylenedi-:**Bioaccumulation : Bioconcentration factor (BCF): 3,2
Remarks: Bioaccumulation is unlikely.Partition coefficient: n- : log Pow: -0,6 (24,7 °C)
octanol/water**Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides:**Bioaccumulation : Bioconcentration factor (BCF): 79
Exposure time: 35 d
Concentration: 0,076 mg/l
GLP: yes
Remarks: Does not bioaccumulate.

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propan-2-ol:

Bioaccumulation	:	Remarks: No bioaccumulation is to be expected (log Pow <= 4).
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Partition coefficient: n-octanol/water	:	log Pow: 0,05 (20 °C) Method: OECD Test Guideline 107
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Mobility in soil**Components:****ethanol:**

Mobility	:	Remarks: No data available
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Amines, N-C12-14-alkyltrimethylenedi-:

Mobility	:	Medium: Soil Remarks: Mobile in soils
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Distribution among environmental compartments	:	Medium: Soil Koc: 10400 Method: OECD Test Guideline 106
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Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides:

Mobility	:	Remarks: No data available
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propan-2-ol:

Mobility	:	Remarks: Mobile in soils
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Other adverse effects**Product:**

Additional ecological information	:	No data is available on the product itself.
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Components:**Amines, N-C12-14-alkyltrimethylenedi-:**

Results of PBT and vPvB 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.
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13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues	:	Disposal together with normal waste is not allowed. Special disposal required according to local regulations.
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Contaminated packaging	:	Empty containers should be taken to an approved waste handling site for recycling or disposal.
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14. TRANSPORT INFORMATION**International Regulations****UNRTDG**

UN number : UN 1903
Proper shipping name : DISINFECTANT, LIQUID, CORROSIVE, N.O.S.
(Cocosalkylpropylendiaminbiguanidiniumdiacetate, Alkyl(C12-16)dimethylbenzylammoniumchloride)
Class : 8
Packing group : III
Labels : 8

IATA-DGR

UN/ID No. : UN 1903
Proper shipping name : Disinfectant, liquid, corrosive, n.o.s.
(Cocosalkylpropylendiaminbiguanidiniumdiacetate, Alkyl(C12-16)dimethylbenzylammoniumchloride)
Class : 8
Packing group : III
Labels : Corrosive
Packing instruction (cargo aircraft) : 856
Packing instruction (passenger aircraft) : 852

IMDG-Code

UN number : UN 1903
Proper shipping name : DISINFECTANT, LIQUID, CORROSIVE, N.O.S.
(Cocosalkylpropylendiaminbiguanidiniumdiacetate, Alkyl(C12-16)dimethylbenzylammoniumchloride)
Class : 8
Packing group : III
Labels : 8
EmS Code : F-A, S-B
Marine pollutant : yes

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

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.

15. REGULATORY INFORMATION**Safety, health and environmental regulations/legislation specific for the substance or mixture**

This information is not available.

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Workplace Safety and Health Act and Workplace Safety and Health (General Provisions) Regulations: This product is subjected to the SDS, labelling, PEL and other requirements in the Act/Regulations.

Environmental Protection and Management Act and : Not applicable
Environmental Protection and Management (Hazardous Substances) Regulations

Fire Safety (Petroleum and Flammable Materials) : Ethanol
Regulations : Isopropanol

16. OTHER INFORMATION

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

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI : ACGIH - Biological Exposure Indices (BEI)
SG OEL : Singapore. Workplace Safety and Health Act - First Schedule
Permissible Exposure Limits of Toxic Substances

ACGIH / TWA : 8-hour, time-weighted average
ACGIH / STEL : Short-term exposure limit
SG OEL / PEL (long term) : Permissible Exposure Level (PEL) Long Term
SG OEL / PEL (short term) : Permissible Exposure Level (PEL) Short Term

AICS - Australian Inventory of Chemical Substances; AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); Ec_x - Concentration associated with x% response; El_x - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErC_x - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; 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; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; 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; SADT - Self-

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Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; 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; WHMIS - Workplace Hazardous Materials Information System

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.