

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended
by UK REACH Regulations SI 2019/758

schülke 

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

Version
07.08

Revision Date:
01.04.2026

Date of last issue: 13.11.2023

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

1.1 Product identifier

Trade name : gigasept® instru AF
Unique Formula Identifier (UFI) : 2Q00-70AS-500T-49GM

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

Producer : Schülke & Mayr GmbH
Robert-Koch-Str. 2

22851 Norderstedt
Germany
Telephone: +49 (0)40/ 52100-0
Telefax: +49 (0)40/ 52100318
mail@schuelke.com
www.schuelke.com

Supplier : Schülke & Mayr UK Ltd.
Cygnet House
1, Jenkin Road

Sheffield S9 1AT
United Kingdom
Telephone: +44 114 254 35 00
Telefax: +44 114 254 35 01
mail.uk@schulke.com

E-mail address of person responsible for the SDS/Contact person : Application Specialists
+49 (0)40/ 521 00 666
AD@schuelke.com

1.4 Emergency telephone number

Emergency telephone number : Carechem 24 International:+44 1235 239670

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

schülke 

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Version
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SECTION 2: Hazards identification


2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Acute toxicity, Category 4	H302: Harmful if swallowed.
Skin corrosion, Sub-category 1B	H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Specific target organ toxicity - repeated exposure, Category 2	H373: May cause damage to organs through prolonged or repeated exposure.
Short-term (acute) aquatic hazard, Category 1	H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard, Category 2	H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

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	:	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

SAFETY DATA SHEET

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schülke 

gigasept® instru AF *No Change Service!*

Version
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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:

C12-C16 (even numbered) alkyl-1,4,5,6-tetrahydropyrimidin-2-aminium acetate and {[3-(C12-C16 (even numbered)alkylamino) propyl] amino} (imino) methanaminium acetate and [(3-[[ammonio(imino) methyl]amino} propyl)-C12-C16(even numbered) alkylamino](imino) methanaminium diacetate

Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched Amines, N-C12-14-alkyltrimethylenedi-Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

Additional Labelling

The product is classified in accordance with Annex I (2.6.4.5) to Regulation (EC) 1272/2008.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Solution of the following substances with harmless additives.

Hazardous components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
1-phenoxypropan-2-ol	770-35-4 212-222-7 - - - 01-2119486566-23-XXXX	Eye Irrit. 2; H319	>= 30 - < 50
C12-C16 (even numbered) alkyl-1,4,5,6-tetrahydropyrimidin-2-aminium acetate and {[3-(C12-C16 (even numbered)alkylamino) propyl] amino} (imino) methanaminium acetate and [(3-[[ammonio(imino) methyl]amino} propyl)-C12-C16(even numbered) alkylamino](imino) methanaminium diacetate	- - - 939-650-3 - - - 01-2119980967-14-XXXX	Acute Tox. 4; H302 Skin Corr. 1C; H314 Eye Dam. 1; H318 STOT RE 2; H373 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute	>= 10 - < 20

SAFETY DATA SHEET

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gigasept® instru AF *No Change Service!*

Version
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Revision Date:
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		aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 1	
Poly(oxy-1,2-ethanediyl), .alpha.- tridecyl-.omega.-hydroxy-, branched	69011-36-5 500-241-6 - - - - - -	Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Chronic 3; H412 specific concentra- tion limit Eye Dam. 1; H318 > 10 % Eye Irrit. 2; H319 > 1 - < 10 %	>= 10 - < 20
ethanol	64-17-5 200-578-6 603-002-00-5 01-2119457610-43- XXXX	Flam. Liq. 2; H225 Eye Irrit. 2; H319	>= 1 - < 10
Amines, N-C12-14- alkyltrimethylenedi-	90640-43-0 292-562-0 - - - 01-2119957843-25- XXXX	Acute Tox. 3; H301 Skin Corr. 1B; H314 Eye Dam. 1; H318 STOT RE 1; H372 (Gastrointestinal tract, Immune sys- tem) Aquatic Acute 1; H400 Aquatic Chronic 2; H411 M-Factor (Acute aquatic toxicity): 100 M-Factor (Chronic aquatic toxicity): 1	>= 5 - < 10
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlo- rides	68424-85-1 270-325-2 - - - 01-2119965180-41- XXXX	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Corr. 1B; H314 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 1	>= 2.5 - < 3
propan-2-ol	67-63-0	Flam. Liq. 2; H225	>= 1 - < 10

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended
by UK REACH Regulations SI 2019/758

schülke 

gigasept® instru AF *No Change Service!*

Version
07.08

Revision Date:
01.04.2026

Date of last issue: 13.11.2023

	200-661-7 603-117-00-0 01-2119457558-25- XXXX	Eye Irrit. 2; H319 STOT SE 3; H336 (Central nervous system)	
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For explanation of abbreviations see section 16.

Other information

CAS 68424-85-1 CORRESPONDS TO REACH: EC 939-253-5
BPR: EC 269-919-4/ CAS 68391-01-5

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.
- Risks : Harmful if swallowed.
Causes serious eye damage.
May cause damage to organs through prolonged or repeated exposure.
Causes severe burns.

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

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended
by UK REACH Regulations SI 2019/758

schülke 

gigasept® instru AF *No Change Service!*

Version
07.08

Revision Date:
01.04.2026

Date of last issue: 13.11.2023

Foam
Carbon dioxide (CO₂)
Water spray jet

Unsuitable extinguishing media : Do NOT use water jet.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : none

Hazardous combustion products : No hazardous combustion products are known

5.3 Advice for firefighters

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : 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 : Never mix concentrates directly.
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 : Store at room temperature in the original container.

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

schülke -t

gigasept® instru AF *No Change Service!*

Version
07.08

Revision Date:
01.04.2026

Date of last issue: 13.11.2023

areas and containers

Further information on storage conditions : Keep away from direct sunlight. Keep container tightly closed. Recommended storage temperature: -5 - 25°C Keep away from heat.

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

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
ethanol	64-17-5	TWA	1,000 ppm 1,920 mg/m ³	GB EH40
propan-2-ol	67-63-0	TWA	400 ppm 999 mg/m ³	GB EH40
		STEL	500 ppm 1,250 mg/m ³	GB EH40

Derived No Effect Level (DNEL)

Substance name	End Use	Exposure routes	Potential health effects	Value
1-phenoxypropan-2-ol	Workers	Inhalation	Long-term systemic effects	25.7 mg/m ³
	Workers	Skin contact	Long-term systemic effects	42 mg/kg
C12-C16 (even numbered) alkyl-1,4,5,6-tetrahydropyrimidin-2-aminium acetate and {[3-(C12-C16 (even numbered)alkylamino) propyl] amino} (imino) methanaminium acetate and [(3-[[ammonio(imino) methyl]amino} propyl)-C12-C16(even numbered) alkylamino](imino) methanaminium diacetate	Workers	Inhalation	Long-term systemic effects	0.88 mg/m ³
	Workers	Skin contact	Long-term systemic effects	1 mg/kg
Poly(oxy-1,2-	Workers	Inhalation	Long-term systemic	294 mg/m ³

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended
by UK REACH Regulations SI 2019/758



gigasept® instru AF No Change Service!

Version
07.08

Revision Date:
01.04.2026

Date of last issue: 13.11.2023

ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched ethanol	Workers	Inhalation	Acute local effects	1900 mg/m3
	Workers	Skin contact	Long-term systemic effects	343 mg/kg
	Workers	Inhalation	Long-term systemic effects	950 mg/m3
Amines, N-C12-14-alkyltrimethylenedi-	Workers	Inhalation	Long-term systemic effects	0.0395 mg/m3
	Workers	Dermal	Long-term systemic effects	0.0056 mg/kg bw/day
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	Workers	Skin contact	Long-term systemic effects	5.7 mg/kg
	Workers	Inhalation	Long-term systemic effects	3.96 mg/m3
propan-2-ol	Workers	Skin contact	Long-term systemic effects	888 mg/kg
	Workers	Inhalation	Long-term systemic effects	500 mg/m3

Predicted No Effect Concentration (PNEC)

Substance name	Environmental Compartment	Value
1-phenoxypropan-2-ol	Fresh water	0.1 mg/l
	Marine water	0.01 mg/l
	Fresh water sediment	0.38 mg/kg
	Marine sediment	0.038 mg/kg
	Soil	0.02 mg/kg
	Effects on waste water treatment plants	10 mg/l
	Intermittent use/release	1 mg/l
C12-C16 (even numbered) alkyl-1,4,5,6-tetrahydropyrimidin-2-aminium acetate and {[3-(C12-C16 (even numbered)alkylamino)propyl] amino} (imino) methanaminium acetate and [(3-{{[ammonio(imino) methyl]amino}propyl)-C12-C16(even numbered) alkylamino}(imino) methanaminium diacetate	Fresh water	0.0004 mg/l
	Marine water	0.00004 mg/l
	Effects on waste water treatment plants	1 mg/l
	Fresh water sediment	10 mg/kg
	Marine sediment	1 mg/kg
	Soil	3.7 mg/kg
Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched	Fresh water	0.074 mg/l

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended
by UK REACH Regulations SI 2019/758

schülke 

gigasept® instru AF *No Change Service!*

Version
07.08

Revision Date:
01.04.2026

Date of last issue: 13.11.2023

	Marine water	0.0074 mg/l
	Intermittent use/release	0.015 mg/l
	Sewage treatment plant	1.4 mg/l
	Soil	0.1 mg/kg
	Fresh water sediment	0.604 mg/kg
	Marine sediment	0.0604 mg/kg
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
	Marine sediment	2.9 mg/kg
	Sewage treatment plant	580 mg/l
Amines, N-C12-14-alkyltrimethylenedi-	Fresh water	0.0032 mg/l
	Marine water	0.00032 mg/l
	Sewage treatment plant	0.205 mg/l
	Intermittent use/release	0.00065 mg/l
	Marine sediment	0.172 mg/kg dry weight (d.w.)
	Fresh water sediment	1.72 mg/kg dry weight (d.w.)
	Soil	10 mg/kg dry weight (d.w.)
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	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
	Intermittent use/release	0.00016 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/face protection : Safety glasses with side-shields conforming to EN166
- Hand protection : The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.
- Guideline :

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended
by UK REACH Regulations SI 2019/758

schülke 

gigasept® instru AF *No Change Service!*

Version
07.08

Revision Date:
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Date of last issue: 13.11.2023

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.
Skin and body protection	:	Work uniform or laboratory coat.
Respiratory protection	:	No personal respiratory protective equipment normally required. 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	:	viscous liquid
Colour	:	green
Odour	:	amine-like
pH	:	9.1 - 9.5 (20 °C) Concentration: 100 %
Melting point/freezing point	:	< -5 °C
Decomposition temperature	:	Not applicable
Boiling point/boiling range	:	ca. 90 °C
Flash point	:	40.5 °C Method: ISO 3679
Flammability	:	Does not sustain combustion.
Upper explosion limit / Upper flammability limit	:	not determined
Lower explosion limit / Lower flammability limit	:	not determined
Vapour pressure	:	not determined
Relative vapour density	:	not determined
Density	:	ca. 0.99 g/cm ³ (20 °C)
Solubility(ies) Water solubility	:	completely soluble (20 °C)
Partition coefficient: n-octanol/water	:	Not applicable

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended
by UK REACH Regulations SI 2019/758

schülke 

gigasept® instru AF *No Change Service!*

Version
07.08

Revision Date:
01.04.2026

Date of last issue: 13.11.2023

Auto-ignition temperature	:	Not applicable
Viscosity		
Viscosity, dynamic	:	ca. 30 mPa*s (20 °C) Method: DIN 54453
Viscosity, kinematic	:	not determined

Explosive properties	:	Not applicable
Oxidizing properties	:	Not applicable

9.2 Other information

Metal corrosion rate	:	< 6.25 mm/a Not corrosive to metals
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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

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Harmful if swallowed.

Product:

Acute oral toxicity : Acute toxicity estimate: 1,185 mg/kg
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2,000 mg/kg

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended
by UK REACH Regulations SI 2019/758

schülke 

gigasept® instru AF *No Change Service!*

Version
07.08

Revision Date:
01.04.2026

Date of last issue: 13.11.2023

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 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

C12-C16 (even numbered) alkyl-1,4,5,6-tetrahydropyrimidin-2-

aminium acetate and {[3-(C12-C16 (even numbered)alkylamino) propyl] amino} (imino) meth-
anaminium acetate and [(3-[[ammonio(imino) methyl]amino] propyl)-C12-C16(even numbered)
alkylamino](imino) methanaminium diacetate

:

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 (Rat): 10,470 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	:	LC50 (Rat, male and female): 124.7 mg/l Exposure time: 4 h Test atmosphere: vapour
Acute dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg Method: OECD Test Guideline 402

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended
by UK REACH Regulations SI 2019/758

schülke 

gigasept® instru AF *No Change Service!*

Version
07.08

Revision Date:
01.04.2026

Date of last issue: 13.11.2023

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.

propan-2-ol:

Acute oral toxicity : LD50 (Rat): 5,840 mg/kg

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

Acute dermal toxicity : LD50 (Rabbit): 13,900 mg/kg
Method: OECD Test Guideline 402

Skin corrosion/irritation

Causes severe burns.

Components:

1-phenoxypropan-2-ol:

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

C12-C16 (even numbered) alkyl-1,4,5,6-tetrahydropyrimidin-2-

aminium acetate and {[3-(C12-C16 (even numbered)alkylamino) propyl] amino} (imino) meth-
anaminium acetate and [(3-[[ammonio(imino) methyl]amino] propyl)-C12-C16(even numbered)
alkylamino](imino) methanaminium diacetate

:

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

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended
by UK REACH Regulations SI 2019/758

schülke -t

gigasept® instru AF *No Change Service!*

Version
07.08

Revision Date:
01.04.2026

Date of last issue: 13.11.2023

||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:

||Result : No skin irritation

Serious eye damage/eye irritation

Causes serious eye damage.

Components:

1-phenoxypropan-2-ol:

||Species : Rabbit
||Method : OECD Test Guideline 405
||Result : Eye irritation

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aminium acetate and {[3-(C12-C16 (even numbered)alkylamino) propyl] amino} (imino) meth-
anaminium acetate and [(3-[[ammonio(imino) methyl]amino] propyl)-C12-C16(even numbered)
alkylamino](imino) methanaminium diacetate

:

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

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

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

schülke -†

gigasept® instru AF *No Change Service!*

Version
07.08

Revision Date:
01.04.2026

Date of last issue: 13.11.2023

Species : Rabbit
Method : Draize Test
Result : Irreversible effects on the eye

ethanol:

Method : OECD Test Guideline 405
Result : Eye irritation

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

Skin sensitisation

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

Respiratory sensitisation

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

Components:

1-phenoxypropan-2-ol:

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

C12-C16 (even numbered) alkyl-1,4,5,6-tetrahydropyrimidin-2-

aminium acetate and {[3-(C12-C16 (even numbered)alkylamino) propyl] amino} (imino) methanaminium acetate and [(3-[[ammonio(imino) methyl]amino] propyl)-C12-C16(even numbered) alkylamino](imino) methanaminium diacetate

:
Remarks : No data available

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:

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended
by UK REACH Regulations SI 2019/758

schülke 

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Version
07.08

Revision Date:
01.04.2026

Date of last issue: 13.11.2023

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

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

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

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

C12-C16 (even numbered) alkyl-1,4,5,6-tetrahydropyrimidin-2-

aminium acetate and {[3-(C12-C16 (even numbered)alkylamino) propyl] amino} (imino) meth-
anaminium acetate and [(3-{[ammonio(imino) methyl]amino} propyl)-C12-C16(even numbered)
alkylamino](imino) methanaminium diacetate

:

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

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended
by UK REACH Regulations SI 2019/758

schülke 

gigasept® instru AF *No Change Service!*

Version
07.08

Revision Date:
01.04.2026

Date of last issue: 13.11.2023

Germ cell mutagenicity- Assessment : Not mutagenic in Ames Test

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.

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended
by UK REACH Regulations SI 2019/758

schülke 

gigasept® instru AF *No Change Service!*

Version
07.08

Revision Date:
01.04.2026

Date of last issue: 13.11.2023

||

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)
Result: Non mutagenic

|| Germ cell mutagenicity- Assessment : Not mutagenic in Ames Test

Carcinogenicity

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

Components:

1-phenoxypropan-2-ol:

|| Remarks : This information is not available.

C12-C16 (even numbered) alkyl-1,4,5,6-tetrahydropyrimidin-2-

aminium acetate and {[3-(C12-C16 (even numbered)alkylamino) propyl] amino} (imino) methanaminium acetate and [(3-[[ammonio(imino) methyl]amino] propyl)-C12-C16(even numbered) alkylamino](imino) methanaminium diacetate

:

|| 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.

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

schülke 

gigasept® instru AF *No Change Service!*

Version
07.08

Revision Date:
01.04.2026

Date of last issue: 13.11.2023

Reproductive toxicity

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

Components:

1-phenoxypropan-2-ol:

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.

C12-C16 (even numbered) alkyl-1,4,5,6-tetrahydropyrimidin-2-

aminium acetate and {[3-(C12-C16 (even numbered)alkylamino) propyl] amino} (imino) methanaminium acetate and [(3-[ammonio(imino) methyl]amino) propyl)-C12-C16(even numbered) alkylamino](imino) methanaminium diacetate

:
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

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: 5,200 mg/kg bw/day
Developmental Toxicity: NOAEL: 5,200 mg/kg bw/day

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended
by UK REACH Regulations SI 2019/758

schülke 

gigasept® instru AF *No Change Service!*

Version
07.08

Revision Date:
01.04.2026

Date of last issue: 13.11.2023

Reproductive toxicity - Assessment : Animal experiments showed mutagenic and teratogenic effects.

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

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

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.

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

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

Components:

1-phenoxypropan-2-ol:

Remarks : No data available

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

schülke 

gigasept® instru AF *No Change Service!*

Version
07.08

Revision Date:
01.04.2026

Date of last issue: 13.11.2023

C12-C16 (even numbered) alkyl-1,4,5,6-tetrahydropyrimidin-2-

aminium acetate and {[3-(C12-C16 (even numbered)alkylamino) propyl] amino} (imino) methanaminium acetate and [(3-{[ammonio(imino) methyl]amino} propyl)-C12-C16(even numbered) alkylamino](imino) methanaminium diacetate

:

||Remarks : No data available

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

||Remarks : No data available

ethanol:

||Remarks : No data available

Amines, N-C12-14-alkyltrimethylenedi-:

||Remarks : not determined

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

||Remarks : No data available

propan-2-ol:

||Assessment : May cause drowsiness or dizziness.

STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Components:

1-phenoxypropan-2-ol:

||Remarks : No data available

C12-C16 (even numbered) alkyl-1,4,5,6-tetrahydropyrimidin-2-

aminium acetate and {[3-(C12-C16 (even numbered)alkylamino) propyl] amino} (imino) methanaminium acetate and [(3-{[ammonio(imino) methyl]amino} propyl)-C12-C16(even numbered) alkylamino](imino) methanaminium diacetate

:

||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

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended
by UK REACH Regulations SI 2019/758

schülke 

gigasept® instru AF *No Change Service!*

Version
07.08

Revision Date:
01.04.2026

Date of last issue: 13.11.2023

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.

Repeated dose toxicity

Components:

C12-C16 (even numbered) alkyl-1,4,5,6-tetrahydropyrimidin-2-

aminium acetate and {[3-(C12-C16 (even numbered)alkylamino) propyl] amino} (imino) methanaminium acetate and [(3-[[ammonio(imino) methyl]amino] propyl)-C12-C16(even numbered) alkylamino](imino) methanaminium diacetate

:

||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 yr
||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

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended
by UK REACH Regulations SI 2019/758

schülke 

gigasept® instru AF *No Change Service!*

Version
07.08

Revision Date:
01.04.2026

Date of last issue: 13.11.2023

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

Species	: Rat
NOAEL	: 214 mg/kg
Application Route	: Oral
Exposure time	: 14-days
Method	: OECD Test Guideline 407

propan-2-ol:

Remarks	: No data available
---------	---------------------

Aspiration toxicity

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

Further information

Product:

Remarks	: No data is available on the product itself.
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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
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Components:

1-phenoxypropan-2-ol:

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended
by UK REACH Regulations SI 2019/758

schülke 

gigasept® instru AF *No Change Service!*

Version
07.08

Revision Date:
01.04.2026

Date of last issue: 13.11.2023

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

C12-C16 (even numbered) alkyl-1,4,5,6-tetrahydropyrimidin-2-

aminium acetate and {[3-(C12-C16 (even numbered)alkylamino) propyl] amino} (imino) methanaminium acetate and [(3-[[ammonio(imino) methyl]amino) propyl)-C12-C16(even numbered) alkylamino](imino) methanaminium diacetate

:

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 Method: OECD Test Guideline 201 GLP: yes
M-Factor (Acute aquatic toxicity)	:	10
Toxicity to fish (Chronic tox-	:	NOEC: 0.125 mg/l

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended
by UK REACH Regulations SI 2019/758

schülke 

gigasept® instru AF *No Change Service!*

Version
07.08

Revision Date:
01.04.2026

Date of last issue: 13.11.2023

Toxicity to fish : Exposure time: 9 d
Species: Danio rerio (zebra fish)
Method: OECD Test Guideline 212
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0.025 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
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)): 1.33 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: 0.218 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 211

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 : EC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Amines, N-C12-14-alkyltrimethylenedi-

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): 0.148 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended
by UK REACH Regulations SI 2019/758

schülke 

gigasept® instru AF *No Change Service!*

Version
07.08

Revision Date:
01.04.2026

Date of last issue: 13.11.2023

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 microorganisms	:	EC50 : 68 mg/l Method: OECD 209
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

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

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 0.85 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
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: 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

propan-2-ol:

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

According to REACH Regulation (EC) No 1907/2006, as amended
by UK REACH Regulations SI 2019/758

schülke 

gigasept® instru AF *No Change Service!*

Version
07.08

Revision Date:
01.04.2026

Date of last issue: 13.11.2023

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

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

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

12.2 Persistence and degradability

Product:

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

Components:

1-phenoxypropan-2-ol:

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

C12-C16 (even numbered) alkyl-1,4,5,6-tetrahydropyrimidin-2-

aminium acetate and {[3-(C12-C16 (even numbered)alkylamino) propyl] amino} (imino) methanaminium acetate and [(3-{[ammonio(imino) methyl]amino} propyl)-C12-C16(even numbered) alkylamino](imino) methanaminium diacetate

:
Biodegradability : Concentration: 5 mg/l
Result: Biodegradable
Biodegradation: 64 %
Exposure time: 28 d
Method: OECD 301B/ ISO 9439/ EEC 84/449 C5
GLP: no

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

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

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended
by UK REACH Regulations SI 2019/758

schülke 

gigasept® instru AF *No Change Service!*

Version
07.08

Revision Date:
01.04.2026

Date of last issue: 13.11.2023

ethanol:

Biodegradability : Test Type: aerobic
Result: Readily biodegradable.
Biodegradation: > 70 %
Exposure time: 5 d
Method: OECD 301D / EEC 84/449 C6

Amines, N-C12-14-alkyltrimethylenedi-:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 66 %
Exposure 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.

12.3 Bioaccumulative potential

Components:

1-phenoxypropan-2-ol:

Partition coefficient: n-
octanol/water : log Pow: 1.41 (24.1 °C)
Method: OECD Test Guideline 107

C12-C16 (even numbered) alkyl-1,4,5,6-tetrahydropyrimidin-2-

aminium acetate and {[3-(C12-C16 (even numbered)alkylamino) propyl] amino} (imino) meth-
anaminium acetate and [(3-{[ammonio(imino) methyl]amino} propyl)-C12-C16(even numbered)
alkylamino](imino) methanaminium diacetate

:

Biaccumulation : Remarks: No data available

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

Biaccumulation : Remarks: None reasonably foreseeable.

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

ethanol:

Biaccumulation : Remarks: Bioaccumulation is unlikely.

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended
by UK REACH Regulations SI 2019/758

schülke 

gigasept® instru AF *No Change Service!*

Version
07.08

Revision Date:
01.04.2026

Date of last issue: 13.11.2023

Partition coefficient: n-
octanol/water : log Pow: -0.14
Method: Calculated value

Amines, N-C12-14-alkyltrimethylenedi-

Bioaccumulation : Bioconcentration factor (BCF): 3.2
Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-
octanol/water : log Pow: -0.6 (24.7 °C)

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

Bioaccumulation : Exposure time: 35 d
Concentration: 0.076 mg/l
Bioconcentration factor (BCF): 79
GLP: yes
Remarks: Does not bioaccumulate.

Partition coefficient: n-
octanol/water : log Pow: 2.75 (20 °C)

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:

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

Mobility : Remarks: No data available

ethanol:

Mobility : Remarks: No data available

Amines, N-C12-14-alkyltrimethylenedi-

Mobility : Medium: Soil
Remarks: Mobile in soils

Distribution among environ-
mental compartments : Medium: Soil
Koc: 10400
Method: OECD Test Guideline 106

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

Mobility : Remarks: No data available

propan-2-ol:

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended
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|| 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.

12.6 Other adverse effects

Product:

Endocrine disrupting potential : This substance/mixture does not contain components considered to have endocrine disrupting properties for environment according to UK REACH Article 57(f) at levels of 0.1% or higher.

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Disposal together with normal waste is not allowed. Special disposal required according to local regulations.

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

SECTION 14: Transport information

14.1 UN number

ADR : UN 1903

IMDG : UN 1903

IATA : UN 1903

14.2 UN proper shipping name

ADR : DISINFECTANT, LIQUID, CORROSIVE, N.O.S.
(Cocosalkylpropylendiaminbiguanidiniumdiacetat, Alkyl(C12-16)dimethylbenzylammoniumchloride)

IMDG : DISINFECTANT, LIQUID, CORROSIVE, N.O.S.
(Cocosalkylpropylendiaminbiguanidiniumdiacetat, Alkyl(C12-16)dimethylbenzylammoniumchloride)

IATA : Disinfectant, liquid, corrosive, n.o.s.
(Cocosalkylpropylendiaminbiguanidiniumdiacetat, Alkyl(C12-16)dimethylbenzylammoniumchloride)

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended
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14.3 Transport hazard class(es)

	Class	Subsidiary risks
ADR	: 8	
IMDG	: 8	
IATA	: 8	

14.4 Packing group

ADR	
Packing group	: III
Classification Code	: C9
Hazard Identification Number	: 80
Labels	: 8
Tunnel restriction code	: (E)
IMDG	
Packing group	: III
Labels	: 8
EmS Code	: F-A, S-B
IATA (Cargo)	
Packing instruction (cargo aircraft)	: 856
Packing instruction (LQ)	: Y841
Packing group	: III
Labels	: Corrosive
IATA (Passenger)	
Packing instruction (passenger aircraft)	: 852
Packing instruction (LQ)	: Y841
Packing group	: III
Labels	: Corrosive

14.5 Environmental hazards

ADR	
Environmentally hazardous	: yes
IMDG	
Marine pollutant	: yes

14.6 Special precautions for user

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

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

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

Not applicable for product as supplied.

SAFETY DATA SHEET

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Version
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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Relevant EU provisions transposed through retained EU law

UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation	:	Not applicable
The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain)	:	Not applicable
Regulation (EU) No 2024/590 on substances that deplete the ozone layer	:	Not applicable
UK REACH List of substances subject to authorisation (Annex XIV)	:	Not applicable

Volatile organic compounds	:	Directive 2010/75/EU of 24 November 2010 on industrial and livestock rearing emissions (integrated pollution prevention and control) Volatile organic compounds (VOC) content: 11.92 %
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Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to new and expectant mothers at work contained in Regulation 16 to 18) and of the Pregnant Workers Directive 92/85/EEC.

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

The components of this product are reported in the following inventories:

TCSI	:	Not in compliance with the inventory
TSCA	:	Product contains substance(s) not listed on TSCA inventory.
AIIIC	:	Not in compliance with the inventory
DSL	:	This product contains the following components that are not on the Canadian DSL nor NDSL. C12-C16 (even numbered) alkyl-1,4,5,6-tetrahydropyrimidin-2-aminium acetate and {[3-(C12-C16 (even numbered)alkylamino) propyl] amino} (imino) methanaminium acetate and [(3-[[ammonio(imino) methyl]amino] propyl)-C12-C16(even numbered) alkylamino](imino) methanaminium diacetate Amines, N-C12-14-alkyltrimethylenedi-1H-Indene-1,3(2H)-dione, 2-(2-quinolinyl)-, sulfonated, sodium salts
ENCS	:	Not in compliance with the inventory

SAFETY DATA SHEET

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schülke 

gigasept® instru AF *No Change Service!*

Version
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Revision Date:
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Date of last issue: 13.11.2023

ISHL	:	Not in compliance with the inventory
KECI	:	Not in compliance with the inventory
PICCS	:	Not in compliance with the inventory
IECSC	:	Not in compliance with the inventory
NZIoC	:	Not in compliance with the inventory
TECI	:	Not in compliance with the inventory

15.2 Chemical safety assessment

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.
H411	:	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
GB EH40	:	UK. EH40 WEL - Workplace Exposure Limits
GB EH40 / TWA	:	Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL	:	Short-term exposure limit (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard

SAFETY DATA SHEET

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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 Harmonised 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 Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardisation; 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 - Organisation for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture:

Acute Tox. 4	H302
Skin Corr. 1B	H314
Eye Dam. 1	H318
STOT RE 2	H373
Aquatic Acute 1	H400
Aquatic Chronic 2	H411

Classification procedure:

Calculation method
Calculation method
Calculation method
Calculation method
Based on product data or assessment
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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