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

1.1 Product identifier

Trade name	:	gigasept® AF forte
Unique Formula Identifier (UFI)	:	9T12-70NJ-900J-A6T1

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

Use of the Substance/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

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.
Acute toxicity, Category 4	H312: Harmful in contact with skin.
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 1	H372: Causes 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 1	H410: Very 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 + H312 Harmful if swallowed or in contact with skin.
H314 Causes severe skin burns and eye damage.
H372 Causes 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:

P310 Immediately call a POISON CENTER/ doctor.
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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
Amines, N-C12-14-alkyltrimethylenedi-
Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched
dimethyldioctylammonium chloride

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)
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 aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 1	>= 10 - < 20
1-phenoxypropan-2-ol	770-35-4 212-222-7 - - - 01-2119486566-23-XXXX	Eye Irrit. 2; H319	>= 10 - < 20
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 system) Aquatic Acute 1;	>= 10 - < 20

		H400 Aquatic Chronic 2; H411 ——————— M-Factor (Acute aquatic toxicity): 100 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 concentration limit Eye Dam. 1; H318 > 10 % Eye Irrit. 2; H319 > 1 - < 10 %	>= 10 - < 20
dimethyldioctylammonium chloride	5538-94-3 226-901-0 - - - 01-2120767055-53-XXXX	Acute Tox. 3; H301 Acute Tox. 2; H310 Skin Corr. 1B; H314 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 ——————— M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 10	>= 5 - < 10
propan-2-ol	67-63-0 200-661-7 603-117-00-0 01-2119457558-25-XXXX	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 (Central nervous system)	>= 1 - < 10
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

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Take off all contaminated clothing immediately.

If inhaled	:	Move to fresh air. If symptoms persist, call a physician.
In case of skin contact	:	Wash off immediately with plenty of water for at least 15 minutes. Consult 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. Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms	:	Treat symptomatically.
Risks	:	Harmful if swallowed or in contact with skin. Causes serious eye damage. Causes 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 Foam Water spray jet Carbon dioxide (CO2)
Unsuitable extinguishing media	:	Do NOT use water jet.

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting	:	No information available.
Hazardous combustion products	:	Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx)

5.3 Advice for firefighters

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

for firefighters

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.

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

6.4 Reference to other sections

see Section 8 + 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

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

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

Hygiene measures : Take off all contaminated clothing immediately.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store at room temperature in the original container.

Further information on storage conditions : Recommended storage temperature: -5 - 25°C

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

7.3 Specific end use(s)

Specific use(s) : none

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form	Control parameters	Basis

		of exposure)		
propan-2-ol	67-63-0	TWA	400 ppm 999 mg/m3	GB EH40
		STEL	500 ppm 1,250 mg/m3	GB EH40
ethanol	64-17-5	TWA	1,000 ppm 1,920 mg/m3	GB EH40

Derived No Effect Level (DNEL):

Substance name	End Use	Exposure routes	Potential health effects	Value
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/m3
	Workers	Skin contact	Long-term systemic effects	1 mg/kg
1-phenoxypropan-2-ol	Workers	Inhalation	Long-term systemic effects	25.7 mg/m3
	Workers	Skin contact	Long-term systemic effects	42 mg/kg
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
Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched	Workers	Inhalation	Long-term systemic effects	294 mg/m3
dimethyldioctylammonium chloride	Workers	Inhalation	Long-term systemic effects	18.79 mg/m3
	Workers	Dermal	Long-term systemic effects	2.67 mg/kg
propan-2-ol	Workers	Skin contact	Long-term systemic effects	888 mg/kg
	Workers	Inhalation	Long-term systemic effects	500 mg/m3
ethanol	Workers	Inhalation	Acute local effects	1900 mg/m3
	Workers	Skin contact	Long-term systemic effects	343 mg/kg
	Workers	Inhalation	Long-term systemic	950 mg/m3

			effects	

Predicted No Effect Concentration (PNEC):

Substance name	Environmental Compartment	Value
C12-C16 (even numbered) alkyl-1,4,5,6-tetrahydropyrimidin-2-aminium acetate and {[3-(C12-C16 (even num-bered)alkylamino)propyl]amino}(imino)methanaminium acetate and [(3-{[am-monio(imino)methyl]amino}propyl)-C12-C16 (even num-bered)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
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
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.)
Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched	Fresh water	0.074 mg/l
	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
dimethyldioctylammonium chloride	Fresh water	0.001 mg/l
	Marine water	0.00001 mg/l
	Sewage treatment plant	0.5 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
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

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

Directive : The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

Remarks : Splash protection: disposable nitrile rubber gloves e.g. Dermatril (layer thickness: 0.11 mm) made by KCL or gloves from other manufacturers offering the same protection. Prolonged contact: 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 : Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Wear as appropriate:
Chemical resistant apron
Boots

Respiratory protection : No personal respiratory protective equipment normally required.
If the occupational exposure limits cannot be met, in exceptional cases suitable respiratory equipment should be worn only for a short period of time.

Protective measures : Avoid contact with skin and eyes.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid
Colour : green
Odour : characteristic

Odour Threshold	:	not determined
pH	:	ca. 7.5 (20 °C) Concentration: 100 %
Melting point/freezing point	:	< -5 °C
Decomposition temperature		No data available
Boiling point/boiling range	:	ca. 90 °C
Flash point	:	62 °C Method: DIN 51755 Part 1
Evaporation rate	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Density	:	ca. 0.99 g/cm3 (20 °C)
Solubility(ies)		
Water solubility	:	completely soluble (20 °C)
Partition coefficient: n-octanol/water	:	Not applicable
Auto-ignition temperature	:	Not applicable
Viscosity		
Viscosity, dynamic	:	ca. 60 mPa*s (20 °C) Method: ISO 3219
Viscosity, kinematic	:	not determined
Explosive properties	:	No data available
Oxidizing properties	:	No data available

9.2 Other information

Flammability (liquids)	:	Does not sustain combustion.
Metal corrosion rate	:	Not corrosive to metals

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Hazardous reactions : reaction with acids.

10.4 Conditions to avoid

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

10.5 Incompatible materials

Materials to avoid : Incompatible with acids.

10.6 Hazardous decomposition products

None reasonably foreseeable.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Harmful if swallowed or in contact with skin.

Product:

Acute oral toxicity : Acute toxicity estimate: 698.24 mg/kg
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: 1,911 mg/kg
Method: Calculation method

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**:**

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

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

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

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

dimethyldioctylammonium chloride:

Acute oral toxicity	:	LD50 (Rat): 238 mg/kg Method: OECD Test Guideline 401 Assessment: Toxic if swallowed. Remarks: The toxicological data has been taken from products of similar composition.
Acute inhalation toxicity	:	Remarks: No data available
Acute dermal toxicity	:	LD50 (Rabbit, male and female): 191 mg/kg Method: OECD Test Guideline 434 Assessment: Fatal 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

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

Skin corrosion/irritation

Causes severe burns.

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

1-phenoxypropan-2-ol:

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

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

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

dimethyldioctylammonium chloride:

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

propan-2-ol:

Result	:	No skin irritation

ethanol:

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

Serious eye damage/eye irritation

Causes serious eye damage.

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

1-phenoxypropan-2-ol:

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

Amines, N-C12-14-alkyltrimethylenedi-:

Remarks	:	Causes eye burns.

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

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

dimethyldioctylammonium chloride:

Species	:	Rabbit
Exposure time	:	1 s
Method	:	OECD Test Guideline 405
Result	:	Corrosive
GLP	:	yes
Remarks	:	The toxicological data has been taken from products of similar composition.

propan-2-ol:

Result	:	Eye irritation

ethanol:

Method	:	OECD Test Guideline 405
Result	:	Eye irritation

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

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**:**

Remarks	:	No data available

1-phenoxypropan-2-ol:

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

Amines, N-C12-14-alkyltrimethylenedi-:

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

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.

dimethyldioctylammonium chloride:

Remarks	:	No data available

propan-2-ol:

Test Type	:	Buehler 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.

Germ cell mutagenicity

Not classified based on available information.

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**:**

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

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

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

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

dimethyldioctylammonium chloride:

Genotoxicity in vitro	:	Test Type: Ames test Test system: Salmonella typhimurium Metabolic activation: Metabolic activation Method: OECD Test Guideline 471 Result: Non mutagenic GLP: yes Remarks: The toxicological data has been taken from products of similar composition.
Germ cell mutagenicity- Assessment	:	Not mutagenic in Ames Test

propan-2-ol:

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

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.

Carcinogenicity

Not classified based on available information.

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**:**

Carcinogenicity - Assess-	:	No data available

ment

1-phenoxypropan-2-ol:

Remarks	:	This information is not available.

Amines, N-C12-14-alkyltrimethylenedi-:

Remarks	:	This information is not available.
Carcinogenicity - Assessment	:	No data available

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

Remarks	:	This information is not available.

dimethyldioctylammonium chloride:

Species	:	Mouse, male and female
Application Route	:	Oral
Dose	:	0-100-500-1000 parts per million
Frequency of Treatment	:	täglich
NOAEL	:	76.3 mg/kg bw/day
Method	:	OECD Test Guideline 451
GLP	:	yes
Remarks	:	The toxicological data has been taken from products of similar composition.
Carcinogenicity - Assessment	:	Based on available data, the classification criteria are not met.

propan-2-ol:

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

ethanol:

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

Reproductive toxicity

Not classified based on available information.

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**:**

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

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.

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

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.

dimethyldioctylammonium chloride:

Effects on fertility	:	Species: Rat, male and female Application Route: Ingestion Dose: 0-300-750-1500 parts per million Method: OECD Test Guideline 416 Result: No effects on fertility and early embryonic development were detected. Remarks: The toxicological data has been taken from products of similar composition.
Reproductive toxicity - Assessment	:	Based on available data, the classification criteria are not met.

propan-2-ol:

Effects on foetal development	:	Species: Rat Application Route: Oral

		General Toxicity Maternal: NOAEL: 400 mg/kg body weight
Reproductive toxicity - Assessment	:	Based on available data, the classification criteria are not met.

ethanol:

Effects on foetal development	:	Species: Rat Application Route: Oral General Toxicity Maternal: NOAEL: 2,000 mg/kg body weight
Reproductive toxicity - Assessment	:	Animal experiments showed mutagenic and teratogenic effects.

STOT - single exposure

Not classified based on available information.

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**:**

Remarks	:	No data available

1-phenoxypropan-2-ol:

Remarks	:	No data available

Amines, N-C12-14-alkyltrimethylenedi-:

Remarks	:	not determined

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

Remarks	:	No data available

dimethyldioctylammonium chloride:

Remarks	:	No data available

propan-2-ol:

Assessment	:	May cause drowsiness or dizziness.

ethanol:

Remarks	:	No data available

STOT - repeated exposure

Causes damage to organs through prolonged or repeated exposure.

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**:**

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

1-phenoxypropan-2-ol:

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.

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

Remarks	:	No data available

dimethyldioctylammonium chloride:

Remarks	:	No data available

propan-2-ol:

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

ethanol:

Remarks	:	No data available

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

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

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

dimethyldioctylammonium chloride:

Species	:	Rat, male and female
NOAEL	:	37 mg/kg
Application Route	:	Oral
Exposure time	:	13 Weeks
Dose	:	0-100-300-600-1000-3000
Method	:	OECD Test Guideline 408
Remarks	:	Based on data from similar materials

propan-2-ol:

Remarks	:	No data available

ethanol:

Species	:	Rat
NOAEL	:	1,730 mg/kg
LOAEL	:	3,160 mg/kg
Application Route	:	Oral
Exposure time	:	90 d

Not classified based on available information.

Further information

Product:

Remarks	:	No data is available on the product itself.

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.24 mg/l Exposure time: 48 h Analytical monitoring: yes Method: OECD Test Guideline 202 GLP: yes

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**:**

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 toxicity)	:	NOEC: 0.125 mg/l 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

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

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
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

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: 1.36 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: QSAR

dimethyldioctylammonium chloride:

Toxicity to fish	:	LC50 (Oncorhynchus mykiss): 0.35 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	Remarks: No data available
Toxicity to algae/aquatic plants	:	NOEC (Pseudokirchneriella subcapitata (green algae)): 0.01 mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 GLP: yes
M-Factor (Acute aquatic toxicity)	:	1
M-Factor (Chronic aquatic toxicity)	:	10

propan-2-ol:

Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 9,640 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 10,000 mg/l Exposure time: 48 h
Toxicity to algae/aquatic	:	EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l

plants		Exposure time: 72 h Test Type: static test EC50 (green algae): 1,800 mg/l Exposure time: 7 d

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

12.2 Persistence and degradability

Product:

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

Components:

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

1-phenoxypropan-2-ol:

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

Amines, N-C12-14-alkyltrimethylenedi-:

Biodegradability	:	Result: Readily biodegradable. Biodegradation: 66 % Exposure time: 28 d

Method: OECD Test Guideline 301D

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

dimethyldioctylammonium chloride:

Biodegradability	:	Result: rapidly biodegradable Biodegradation: 73 % Exposure time: 28 d Method: OECD Test Guideline 301 Remarks: The 10 day time window criterion is not fulfilled.

propan-2-ol:

Biodegradability	:	Result: Readily biodegradable.

ethanol:

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

12.3 Bioaccumulative potential

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**:**

Bioaccumulation	:	Remarks: No data available

1-phenoxypropan-2-ol:

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

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

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

Bioaccumulation	:	Remarks: None reasonably foreseeable.
Partition coefficient: n-octanol/water	:	Remarks: Not applicable

dimethyldioctylammonium chloride:

Bioaccumulation	:	Remarks: Bioaccumulation is unlikely.

propan-2-ol:

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

ethanol:

Bioaccumulation	:	Remarks: Bioaccumulation is unlikely.
Partition coefficient: n-octanol/water	:	log Pow: -0.14 Method: Calculated value

12.4 Mobility in soil

Components:

Amines, N-C12-14-alkyltrimethylenedi-:

Mobility	:	Medium: Soil Remarks: Mobile in soils
Distribution among environmental compartments	:	Medium: Soil Koc: 10400 Method: OECD Test Guideline 106

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

Mobility	:	Remarks: No data available

propan-2-ol:

Mobility	:	Remarks: Mobile in soils

ethanol:

Mobility	:	Remarks: No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment	:	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or

very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Components:

dimethyldioctylammonium chloride:

Assessment	:	This substance is not considered to be persistent, bioaccumulating and toxic (PBT).. This substance is not considered to be very persistent and very bioaccumulating (vPvB).

12.6 Other adverse effects

Product:

Endocrine disrupting potential	:	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
Additional ecological information	:	No data is available on the product itself.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	:	Disposal together with normal waste is not allowed. Special disposal required according to local regulations.
Contaminated packaging	:	Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: Transport information

14.1 UN number

ADR	:	UN 1903
IMDG	:	UN 1903
IATA	:	UN 1903

14.2 UN proper shipping name

ADR	:	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Cocosalkylpropylendiaminbiguanidiniumdiacetat, dimethyldioctylammonium chloride)
IMDG	:	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Cocosalkylpropylendiaminbiguanidiniumdiacetat, dimethyldioctylammonium chloride)
IATA	:	Disinfectant, liquid, corrosive, n.o.s. (Cocosalkylpropylendiaminbiguanidiniumdiacetat, dimethyldioctylammonium chloride)

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

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.

SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17)	:	Conditions of restriction for the following entries should be considered: Number on list 3
UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation	:	Not applicable
The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain)	:	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
UK REACH List of substances subject to authorisation (Annex XIV)	:	Not applicable

Volatile organic compounds	:	Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) Volatile organic compounds (VOC) content: 4.7 %
according to Detergents Regulation EC 648/2004	:	5 - < 15%: Non-ionic surfactants Other constituents: Disinfectants

Other regulations:

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.
AIIC	:	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-
ENCS	:	Not in compliance with the inventory
ISHL	:	Not in compliance with the inventory
KECI	:	Not in compliance with the inventory
PICCS	:	Not in compliance with the inventory
IECSC	:	Not in compliance with the inventory

NZIoC	:	Not in compliance with the inventory
TECI	:	Not in compliance with the inventory

15.2 Chemical safety assessment

Exempt

SECTION 16: Other information**Full text of H-Statements**

H225	:	Highly flammable liquid and vapour.
H301	:	Toxic if swallowed.
H302	:	Harmful if swallowed.
H310	:	Fatal 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 of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization;

KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; 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:		**Classification procedure:**
Acute Tox. 4	H302	Calculation method
Acute Tox. 4	H312	Calculation method
Skin Corr. 1B	H314	Calculation method
Eye Dam. 1	H318	Calculation method
STOT RE 1	H372	Calculation method
Aquatic Acute 1	H400	Based on product data or assessment
Aquatic Chronic 1	H410	Calculation method

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

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