

SAFETY DATA SHEET

According to REACH etc. (Amendment etc.) (EU Exit) Regulations 2019

schülke 

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Version
07.05

Revision Date:
22.10.2021

Date of last issue: 23.04.2021

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

1.1 Product identifier

Trade name : gigasept® instru AF

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

Use of the Sub-
stance/Mixture : Disinfectants

Recommended restrictions
on use : Restricted to professional users.

1.3 Details of the supplier of the safety data sheet

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, Meadowhall

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 Department
+49 (0)40/ 521 00 666
AD@schuelke.com
(Schülke & Mayr UK Ltd.: +44-1142543500)

1.4 Emergency telephone number

Emergency telephone number : UK Poisons Emergency number: 0870 600 6266
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 The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019)

Acute toxicity, Category 4

H302: Harmful if swallowed.

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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 The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019)

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 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:

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Cocosalkylpropylendiaminbiguanidiniumdiacetat
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.

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 --- ---	Eye Irrit. 2; H319	>= 30 - < 50
Cocosalkylpropylendiaminbiguanidiniumdiacetat	Not Assigned 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
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	>= 10 - < 20
ethanol	64-17-5 200-578-6 603-002-00-5 01-2119457610-43-	Flam. Liq. 2; H225 Eye Irrit. 2; H319	>= 1 - < 10

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Amines, N-C12-14-alkyltrimethylenedi-	XXXX		
	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; H400 Aquatic Chronic 2; H411	>= 5 - < 10
		M-Factor (Acute aquatic toxicity): 100 M-Factor (Chronic aquatic toxicity): 1	
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	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	>= 2.5 - < 3
		M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 1	
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) STOT RE 2; H373	>= 1 - < 10

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.

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-
- | | | |
|-------------------------|---|---|
| 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 if swallowed.
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
Carbon dioxide (CO ₂)
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. |
|---|---|--|

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Increased risk of slipping in the presence of leaked / spilled product.
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 areas and containers : Store at room temperature in the original container.

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

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Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
ethanol	64-17-5	TWA	1,000 ppm 1,920 mg/m3	GB EH40
Further information: Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.				
propan-2-ol	67-63-0	TWA	400 ppm 999 mg/m3	GB EH40
		STEL	500 ppm 1,250 mg/m3	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/m3
	Workers	Skin contact	Long-term systemic effects	42 mg/kg
Cocosalkylpropylendiaminbiguanidiniumdiacetat	Workers	Inhalation	Long-term systemic effects	0.88 mg/m3
	Workers	Skin contact	Long-term systemic effects	1 mg/kg
Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched	Workers	Inhalation	Long-term systemic effects	294 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 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

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	Soil	0.02 mg/kg
	Effects on waste water treatment plants	10 mg/l
Cocosalkylpropylendiamin- biguanidiniumdiacetat	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
	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 com- pounds, 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

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8.2 Exposure controls

Engineering measures

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

Personal protective equipment

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

Hand protection
Directive : The selected protective gloves have to satisfy the specifications of 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 : Work uniform or laboratory coat.

Respiratory protection : No personal respiratory protective equipment normally required.

Protective measures : Avoid contact with skin and eyes.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : green

Odour : amine-like

Odour Threshold : not determined

pH : 9.1 - 9.5 (20 °C)
Concentration: 100 %

Melting point/freezing point : < -5 °C

Decomposition temperature : No data available

Boiling point/boiling range : ca. 90 °C

Flash point : 40.5 °C
Method: ISO 3679

Evaporation rate : No data available

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Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Relative vapour density	:	No data available
Density	:	ca. 0.99 g/cm ³ (20 °C)
Solubility(ies) Water solubility	:	completely soluble (20 °C)
Partition coefficient: n-octanol/water	:	Not applicable
Auto-ignition temperature	:	No data available
Viscosity Viscosity, dynamic	:	ca. 30 mPa*s (20 °C) Method: DIN 54453
Explosive properties	:	No data available
Oxidizing properties	:	No data available

9.2 Other information

Flammability (liquids)	:	Does not sustain combustion.
Refractive index	:	1.455 - 1.461
Metal corrosion rate	:	< 6.25 mm/a 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 : 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.

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10.6 Hazardous decomposition products

None reasonably foreseeable.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Harmful if swallowed.

Product:

Acute oral toxicity : Acute toxicity estimate: 1,195 mg/kg
Method: Calculation method

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

Components:

1-phenoxypropan-2-ol:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 5.4 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 402

Cocosalkylpropylendiaminbiguanidiniumdiacetat:

Acute oral toxicity : LD50 (Rat): 500 - 2,000 mg/kg
Assessment: Harmful if swallowed.

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : Remarks: No data available

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

Acute oral toxicity : LD50 (Rat): > 300 - 2,000 mg/kg

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : LD50: > 5,000 mg/kg
Method: literature value

ethanol:

Acute oral toxicity : LD50 (Mouse): 8,300 mg/kg

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Acute inhalation toxicity	: LC50 (Mouse): 39 mg/l Exposure time: 4 h Test atmosphere: vapour
Acute dermal toxicity	: LD50 (Rabbit): 20,000 mg/kg

Amines, N-C12-14-alkyltrimethylenedi-:

Acute oral toxicity	: LD50 (Rat, female): 200 mg/kg Method: OECD Test Guideline 423
Acute inhalation toxicity	: Remarks: No data available
Acute dermal toxicity	: Remarks: No data available

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

Acute oral toxicity	: LD50 (Rat): > 300 - 2,000 mg/kg Method: OECD Test Guideline 401 Assessment: Harmful if swallowed.
Acute inhalation toxicity	: LC50 (Rat): > 2 mg/l Test atmosphere: dust/mist
Acute dermal toxicity	: LD50 (Rat): 1,100 mg/kg Assessment: Harmful in contact with skin.

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

Cocosalkylpropylendiaminbiguanidiniumdiacetat:

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

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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
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Serious eye damage/eye irritation

Causes serious eye damage.

Components:

1-phenoxypropan-2-ol:

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

Cocosalkylpropylendiaminbiguanidiniumdiacetat:

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

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

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-:

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||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

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

1-phenoxypropan-2-ol:

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

Cocosalkylpropylendiaminbiguanidiniumdiacetat:

||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:

||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

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propan-2-ol:

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

Germ cell mutagenicity

Not classified based on available information.

Components:

1-phenoxypropan-2-ol:

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

Cocosalkylpropylendiaminbiguanidiniumdiacetat:

Genotoxicity in vitro	: Test Type: Ames test Test system: Salmonella typhimurium Method: OECD Test Guideline 471 Result: Non mutagenic GLP: yes
Germ cell mutagenicity- Assessment	: Not mutagenic in Ames Test

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
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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
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	Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: Not mutagenic in Ames Test GLP: yes
Genotoxicity in vivo	: Test Type: Micronucleus test Species: Mouse (male and female) Application Route: Oral Result: negative
Germ cell mutagenicity- Assessment	: Not mutagenic in Ames Test

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

Genotoxicity in vitro	: Test Type: Microbial mutagenesis assay (Ames test) Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: Not mutagenic in Ames Test
Genotoxicity in vivo	: Test Type: In vivo micronucleus test Species: Mouse (male and female) Application Route: Oral Method: OECD Test Guideline 474 GLP: yes
Germ cell mutagenicity- Assessment	: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

propan-2-ol:

Genotoxicity in vitro	: Test Type: Ames test 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

Not classified based on available information.

Components:

1-phenoxypropan-2-ol:

Remarks	: This information is not available.
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Cocosalkylpropylendiaminbiguanidiniumdiacetat:

Carcinogenicity - Assess-	: No data available
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|| ment

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.

Reproductive toxicity

Not classified based on available information.

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.

Cocosalkylpropylendiaminbiguanidiniumdiacetat:

|| Effects on foetal development : Test Type: Fertility/early embryonic development
Species: Rat, female
Application Route: Oral
General Toxicity Maternal: NOAEL: 15 mg/kg body weight
Teratogenicity: NOAEL: 125 mg/kg body weight
Developmental Toxicity: NOAEL: 45 mg/kg body weight

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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: 2,000 mg/kg body weight
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:

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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

Not classified based on available information.

Components:

1-phenoxypropan-2-ol:

Remarks : No data available

Cocosalkylpropylendiaminbiguanidiniumdiacetat:

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 (Gastrointestinal tract, Immune system) through prolonged or repeated exposure if swallowed.

Components:

1-phenoxypropan-2-ol:

Remarks : No data available

Cocosalkylpropylendiaminbiguanidiniumdiacetat:

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

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

||Remarks : No data available

ethanol:

||Remarks : No data available

Amines, N-C12-14-alkyltrimethylenedi-:

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

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

||Remarks : No data available

propan-2-ol:

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

Repeated dose toxicity

Components:

Cocosalkylpropylendiaminbiguanidiniumdiacetat:

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

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

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

ethanol:

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

Amines, N-C12-14-alkyltrimethylenedi-:

||Species : Rat, male and female
||NOAEL : 0.4 mg/l
||Application Route : Ingestion
||Exposure time : 90-day

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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
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Aspiration toxicity

Not classified based on available information.

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
---	--

Components:

1-phenoxypropan-2-ol:

Toxicity to fish	: LC50 (Pimephales promelas (fathead minnow)): 280 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	: LC50 (Daphnia magna (Water flea)): 370 mg/l Exposure time: 48 h Method: OECD Test Guideline 202

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

ErC10 (Desmodesmus subspicatus (green algae)): 55.5 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Cocosalkylpropylendiaminbiguanidiniumdiacetat:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 0.707 mg/l
Exposure time: 96 h
Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.058 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): 0.0197 mg/l
Exposure time: 72 h
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

NOEC (Desmodesmus subspicatus (green algae)): 0.00316 mg/l
Exposure time: 72 h
Analytical monitoring: yes
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

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

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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

ethanol:

Toxicity to fish	:	LC50 (Leuciscus idus (Golden orfe)): 8,140 mg/l Exposure time: 48 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 5,000 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	IC50 (Scenedesmus quadricauda (Green algae)): > 100 mg/l Exposure time: 72 h

Amines, N-C12-14-alkyltrimethylenedi-:

Toxicity to fish	:	LC50 (Brachydanio rerio (zebrafish)): 0.148 mg/l Exposure time: 96 h 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

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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

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

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individual components.

Components:

1-phenoxypropan-2-ol:

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

Cocosalkylpropylendiaminbiguanidiniumdiacetat:

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

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

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.

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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

Cocosalkylpropylendiaminbiguanidiniumdiacetat:

Bioaccumulation : Remarks: No data available

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

Bioaccumulation : Remarks: None reasonably foreseeable.

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

ethanol:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

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

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

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

Mobility : Remarks: No data available

propan-2-ol:

Mobility : Remarks: Mobile in soils

12.5 Results of PBT and vPvB assessment

Product:

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

12.6 Other adverse effects

Product:

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : 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.

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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.
(Cocosalkylpropylendiaminbiguanidiniumdiacetate, Alkyl(C12-16)dimethylbenzylammoniumchloride)
IMDG : DISINFECTANT, LIQUID, CORROSIVE, N.O.S.
(Cocosalkylpropylendiaminbiguanidiniumdiacetate, Alkyl(C12-16)dimethylbenzylammoniumchloride)
IATA : Disinfectant, liquid, corrosive, n.o.s.
(Cocosalkylpropylendiaminbiguanidiniumdiacetate, Alkyl(C12-16)dimethylbenzylammoniumchloride)

14.3 Transport hazard class(es)

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

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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.

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Conditions of restriction for the following entries should be considered: Number on list 3

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

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

UK REACH List of substances subject to authorisation (Annex XIV) : Not applicable

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

E1 ENVIRONMENTAL
HAZARDS

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)
Volatile organic compounds (VOC) content: 11.81 %

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

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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. Cocosalkylpropylendiaminbiguanidiniumdiacetat 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.
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.
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
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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 - European 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

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

SAFETY DATA SHEET

According to REACH etc. (Amendment etc.) (EU Exit) Regulations
2019



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Version

Revision Date:

Date of last issue: 23.04.2021

07.05

22.10.2021

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

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