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

1.1 Product identifier

on use

Trade name	: terralin® protect
Unique Formula Identifier	: Q020-T0PQ-S007-1E7K
(UFI)	

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

Use of the Sub- stance/Mixture	:	Disinfectants and general biocidal products
Recommended restrictions	:	For professional users only.

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	PRAXISDIENST Medical Supplies since 1953 Order here!
	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 num- : ber	Carechem 24 International:+44 1235 239670	

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Acute toxicity, Category 4	H302: Harmful if swallowed.
Skin corrosion, Sub-category 1B	H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Short-term (acute) aquatic hazard, Cate- gory 1	H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard, Cat- egory 2	H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

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

Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H302 Harmful if swallowed.H314 Causes severe skin burns and eye damage.H410 Very toxic to aquatic life with long lasting effects.
Precautionary statements	:	Prevention: P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protec- tion/ 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 immedi- ately all contaminated clothing. Rinse skin with water or show- er. P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if pre- sent and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor. Disposal:

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P501 Dispose of contents/ container to an approved waste disposal plant.

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Hazardous components which must be listed on the label:

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

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.

Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Index-No.		
	Registration number		
Quaternary ammonium compounds,	68424-85-1	Acute Tox. 4; H302	>= 20 - < 25
benzyl-C12-16-alkyldimethyl, chlo-	270-325-2	Acute Tox. 4; H312	
rides		Skin Corr. 1B;	
	01-2119965180-41-	H314	
	XXXX	Eye Dam. 1; H318	
		Aquatic Acute 1; H400	
		Aquatic Chronic 1;	
		H410	
		M-Factor (Acute	
		aquatic toxicity): 10	
		M-Factor (Chronic	
		aquatic toxicity): 1	
2-phenoxyethanol	122-99-6	Acute Tox. 4; H302	>= 10 - < 20
	204-589-7	Eye Irrit. 2; H319	
	603-098-00-9	STOT SE 3; H335	
		(Respiratory sys-	
		tem)	
Poly(oxy-1,2-ethanediyl), .alpha	69011-36-5	Acute Tox. 4; H302	>= 3 - < 10
tridecylomegahydroxy-, branched	500-241-6	Eye Dam. 1; H318	
		Aquatic Chronic 3;	
		H412	
	D 0/22	specific concentra-	

Hazardous components



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		tion limit Eye Dam. 1; H318 > 10 % Eye Irrit. 2; H319 > 1 - < 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
Betaines, C12-14-alkyldimethyl	66455-29-6 266-368-1 01-2119529251-48- XXXX	Skin Corr. 1B; H314 Eye Dam. 1; H318 Aquatic Chronic 3; H412	>= 1 - < 2.5
1,1',1",1"'- ethylenedinitrilotetrapropan-2-ol	102-60-3 203-041-4 01-2119552434-41- XXXX	Eye Irrit. 2; H319	>= 1 - < 10
Glycine, aminoalkyl derivs.	 941-419-7 01-2120050368-56- XXXX	Acute Tox. 4; H302 Acute Tox. 3; H311 Skin Corr. 1C; H314 Eye Dam. 1; H318 STOT RE 2; H373 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0.25 - < 1
		M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 1	

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 imme

General advice	: Take off immediately all contaminated clothing and wash it before reuse.
If inhaled	: Move to fresh air. If symptoms persist, call a physician.



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In case o	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 imme- diately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.		
If swallov	wed :	 Do NOT induce vomiting. Rinse mouth with water. Give small amounts of water to drink. Obtain medical attention. 		
2 Most imp	ortant symptoms and	effects, both acute and delayed		
Symptom		Treat symptomatically.		
Risks	:	 Harmful if swallowed. Causes serious eye damage. Causes severe burns. 		
.3 Indicatior	n of any immediate m	edical attention and special treatment needed		
Treatmer	-	For specialist advice physicians should contact the Poisons Information Service.		
SECTION 5:	Firefighting measu	ires		
.1 Extinguis	shina media			
-	extinguishing media	: Dry powder Foam Carbon dioxide (CO2) Water spray jet		

5.2 Special hazards arising from the substance or mixture

Unsuitable extinguishing : Do NOT use water jet.

Specific hazards during fire- fighting	:	Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion prod- ucts	:	No hazardous combustion products are known

5.3 Advice for firefighters

media

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

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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.

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

7.2

7.3

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling	:	Avoid exceeding the given occupational exposure limits (see section 8). Wear personal protective equipment. Avoid formation of aerosol. Ensure adequate ventilation.
Advice on protection against fire and explosion	:	No special protective measures against fire required.
Hygiene measures	:	Keep away from food and drink.
Conditions for safe storage, i Requirements for storage areas and containers		uding any incompatibilities Store at room temperature in the original container.
Further information on stor- age conditions	:	Keep away from heat. Keep away from direct sunlight. Keep container tightly closed. Recommended storage temperature: 5 - 25°C
Advice on common storage	:	Do not store together with explosives, oxidizing agents, organ ic peroxides and infectious products.
Specific end use(s)		

Specific use(s) : none

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
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 ef- fects	Value
Quaternary ammoni- um compounds, ben- zyl-C12-16- alkyldimethyl, chlo- rides	Workers	Skin contact	Long-term systemic effects	5.7 mg/kg
	Workers	Inhalation	Long-term systemic effects	3.96 mg/m3
Poly(oxy-1,2- ethanediyl), .alpha tridecylomega hydroxy-, branched	Workers	Inhalation	Long-term systemic effects	294 mg/m3
propan-2-ol	Workers	Skin contact	Long-term systemic effects	888 mg/kg
	Workers	Inhalation	Long-term systemic effects	500 mg/m3
1,1',1",1"'- ethylenedini- trilotetrapropan-2-ol	Workers	Skin contact	Long-term systemic effects	4.2 mg/kg
	Workers	Inhalation	Long-term systemic effects	29.4 mg/m3
Glycine, aminoalkyl derivs.	Workers	Inhalation	Long-term systemic effects	0.19 mg/m3
	Workers	Dermal	Long-term systemic effects	100 mg/kg bw/day

Predicted No Effect Concentration (PNEC):

Substance name	Environmental Compartment	Value
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
Poly(oxy-1,2-ethanediyl), .alpha tridecylomegahydroxy-,	Fresh water	0.074 mg/l



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branched		0.0074 m m/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
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
1,1',1",1"'- ethylenedinitrilotetrapropan-2-ol	Fresh water	0.085 mg/l
	Marine water	0.0085 mg/l
	Intermittent use/release	1.51 mg/l
	Sewage treatment plant	70 mg/l
	Fresh water sediment	0.193 mg/kg
	Marine sediment	0.0193 mg/kg
	Soil	0.0183 mg/kg
Glycine, aminoalkyl derivs.	Fresh water	0.00023 mg/l
	Marine water	0.000023 mg/l
	Sewage treatment plant	0.22 mg/l
	Fresh water sediment	2.69 mg/kg dry weight (d.w.)
	Marine sediment	0.269 mg/kg dry weight (d.w.)

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 specifica- tions of Regulation (EU) 2016/425 and the standard EN 374 derived from it.
Remarks	:	Splash protection: disposable nitrile rubber gloves e.g. Dermatril (layer thickness: 0.11 mm) made by KCL or gloves from other manufacturers offering the same protection. Pro- longed contact: Nitrile rubber gloves e.g. Camatril (>480 Min., layer thickness: 0,40 mm) or butyl rubber gloves e.g. Butoject (>480 Min., layer thickness: 0,70 mm) made by KCL or gloves from other manufacturers offering the same protec- tion.



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Skin and	body protection	: Work uniform or laboratory coat.
Respirate	ory protection	 Not required; except in case of aerosol formation. Respiratory protection complying with EN 141. Recommended Filter type: A
Protectiv	e 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	:	pleasant
Odour Threshold	:	not determined
рН	:	8.6 (20 °C) Concentration: 100 %
Melting point/freezing point	:	< -5 °C
Decomposition temperature		Not applicable
Boiling point/boiling range	:	ca. 90 °C
Flash point	:	48 °C Method: DIN 51755 Part 1
Evaporation rate	:	No data available
•	•	
Upper explosion limit / Upper flammability limit		
	:	Not applicable
flammability limit Lower explosion limit / Lower	:	Not applicable
flammability limit Lower explosion limit / Lower flammability limit	:	Not applicable Not applicable
flammability limit Lower explosion limit / Lower flammability limit Vapour pressure	:	Not applicable Not applicable No data available
flammability limit Lower explosion limit / Lower flammability limit Vapour pressure Relative vapour density	:	Not applicable Not applicable No data available No data available



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Auto-ignit	tion temperature	:	Not applicable
Viscosity Viscos	sity, dynamic	:	ca. 21 mPa*s (20 °C) Method: ISO 3219
Viscos	sity, kinematic	:	not determined
Explosive properties		:	No data available
Oxidizing properties		:	The substance or mixture is not classified as oxidizing.
9.2 Other info	ormation		
Flammab	ility (liquids)	:	Does not sustain combustion.
Metal cor	rosion rate	:	< 6.25 mm/a Not corrosive to metals Aluminium and Mild steel

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

: Extremes of temperature and direct sunlight.

10.5 Incompatible materials

Materials to avoid :	Incompatib	e with strong	acids and	oxidizing agents.
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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: 1,405 mg/kg Method: Calculation method

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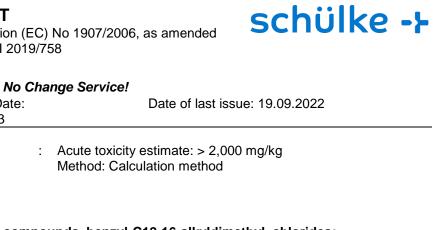
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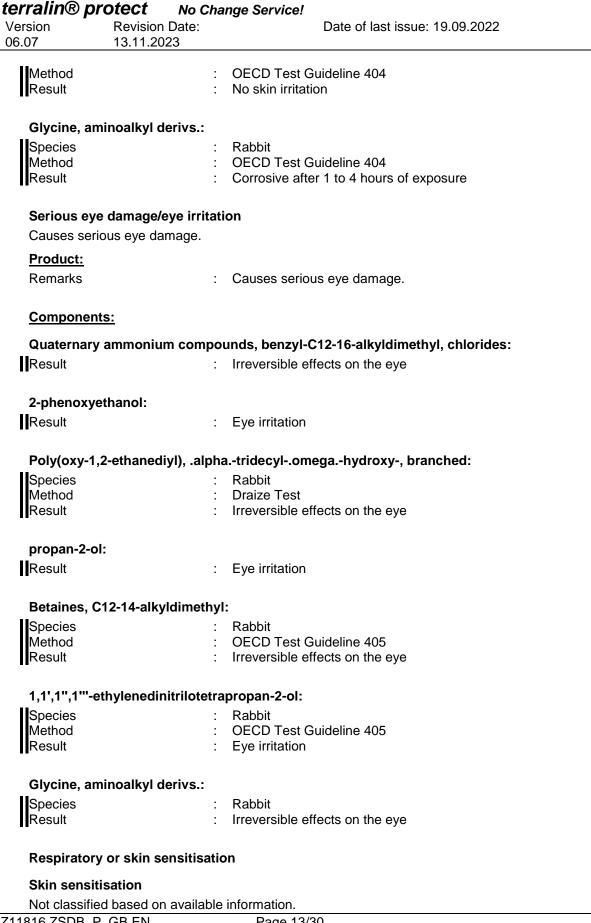
Acute dermal toxicity	:	Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method
Components:		
Quaternary ammonium co	mpo	unds, benzyl-C12-16-alkyldimethyl, chlorides:
Acute oral toxicity	:	LD50 (Rat): > 300 - 2,000 mg/kg Method: OECD Test Guideline 401 Assessment: Harmful if swallowed.
Acute 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.
2-phenoxyethanol:		
Acute oral toxicity	:	LD50 (Rat): 1,394 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	:	(Rat): Exposure time: 8 h Test atmosphere: Aerosol Remarks: An LC50/ inhalation could not be determined be- cause no mortality of rats was observed at the maximum achievable concentration.
Acute dermal toxicity	:	LD50 (Rat): 14,391 mg/kg
Poly(oxy-1,2-ethanediyl),	alpha	atridecylomegahydroxy-, 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
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
Betaines, C12-14-alkyldim	ethy	I:
Acute oral toxicity	:	LD50 (Mouse): 2,640 mg/kg
Acute inhalation toxicity	:	Remarks: No data available



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		: LD50 (Rat): > 2,000 mg/kg
		(
1,1',1",1"'-et	hylenedinitrilotet	rapropan-2-ol:
Acute oral to	xicity	: LD50 (Rat): 2,890 mg/kg Method: OECD Test Guideline 401
Acute derma	I toxicity	: LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402
Glvcine, am	inoalkyl derivs.:	
Acute oral to	-	: LD50 (Rat, male and female): > 660 mg/kg
Acute inhalat	tion toxicity	: Remarks: No data available
Acute derma	I toxicity	: LD50 (Rat): > 400 mg/kg
Skin corros Causes seve	ion/irritation ere burns.	
Product:		
Remarks		: Causes severe skin burns and eye damage.
<u>Component</u>	<u>s:</u>	
Quaternary	ammonium comp	ounds, benzyl-C12-16-alkyldimethyl, chlorides:
Species	•	: Rabbit
Result GLP		 Corrosive after 3 minutes to 1 hour of exposure no
2-phenoxye	thanol:	
Species		: Rabbit
Method		: OECD Test Guideline 404
Result		: No skin irritation
Poly(oxy-1,2	2-ethanediyl), .alp	hatridecylomegahydroxy-, branched:
Species		: Rabbit
Method		: OECD Test Guideline 404
Result		: No skin irritation
propan-2-ol	:	
Result		: No skin irritation
Betaines, C	12-14-alkyldimeth	yl:
Method		: OECD Test Guideline 404
Result		: Corrosive after 3 minutes to 1 hour of exposure
	hylenedinitrilotet	
Species		: Rabbit

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Respiratory sensitisation

Not classified based on available information.

Components:

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

|--|--|

2-phenoxyethanol:

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

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

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

propan-2-ol:

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

Betaines, C12-14-alkyldimethyl:

: Maximisation Test
: Guinea pig
: OECD Test Guideline 406
: Not a skin sensitizer.

1,1',1",1"'-ethylenedinitrilotetrapropan-2-ol:

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

Glycine, aminoalkyl derivs.:

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

Germ cell mutagenicity

Not classified based on available information.

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Components:

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

Quaternary ammonium com	ipo	unds, benzyi-C12-16-aikyidimetnyi, chiorides:
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- As- sessment	:	Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
2-phenoxyethanol:		
Genotoxicity in vitro	:	Test Type: Microbial mutagenesis assay (Ames test) Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Result: negative
Germ cell mutagenicity- As- sessment	:	Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
Poly(oxy-1,2-ethanediyl), .al	pha	atridecylomegahydroxy-, branched:
Genotoxicity in vitro	:	Test Type: Microbial mutagenesis assay (Ames test) Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Result: negative
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- As-	:	Not mutagenic in Ames Test

Betaines, C12-14-alkyldimethyl:

Genotoxicity in vitro :	Test Type: Microbial mutagenesis assay (Ames test) Method: OECD Test Guideline 471 Result: negative Test Type: gene mutation test
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Components:

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 develop- ment	:	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.
2-phenoxyethanol:		
Effects on foetal develop- ment	:	Test Type: Pre-natal Species: Rat Application Route: Oral General Toxicity Maternal: NOAEL: 300 mg/kg bw/day Method: OPPTS 870.3700

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

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 develop- ment	:	Remarks: No effects on fertility and early embryonic develop- ment were detected.
propan-2-ol:		
Effects on foetal develop- ment	:	Species: Rat Application Route: Oral General Toxicity Maternal: NOAEL: 400 mg/kg body weight
Reproductive toxicity - As- sessment	:	Based on available data, the classification criteria are not met.

1,1',1",1"'-ethylenedinitrilotetrapropan-2-ol:

Glycine, aminoalkyl derivs.:

Reproductive toxicity - As-	:	No data available
sessment		

Components:

Remarks

Remarks

Remarks

propan-2-ol: Assessment

Components:

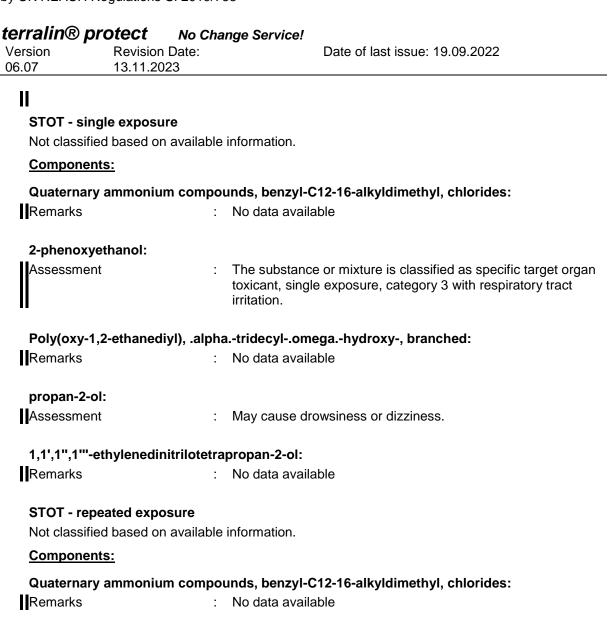
Assessment

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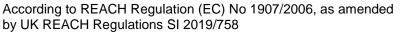
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		unds, benzyl-C12-16-alkyldimethyl, chlorides: No data available	
2-phenoxyethanol: Remarks	:	No data available	
		a tridecylomegahydroxy-, branched: No data available	
propan-2-ol: Remarks	:	Based on available data, the classification criteria are not met.	
1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol:			
Remarks	:	No data available	
Glycine, aminoalkyl derivs.:			
	:	The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.	





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Repeated dose toxicity

Components:

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

: OECD Test Guideline 407

	: Rat, male
NOAEL Application Route	: 31 mg/kg
Application Route	: Oral
Exposure time	: 90-day
Method	: OECD Test Guideline 408
Exposure time Method GLP	: yes
Species	: Rat
NOAEL	: 214 mg/kg
Application Route	: Oral
Species NOAEL Application Route Exposure time	: 14-days

2-phenoxyethanol:

Method

Species	: Rat, male and female
NOAEL	: 369 mg/kg
Application Route	: Oral
Species NOAEL Application Route Method	: OECD Test Guideline 408

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

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

propan-2-ol:

Remarks

: No data available

Betaines, C12-14-alkyldimethyl:

Species NOAEL	:	Rat
NOAEL	:	50 mg/kg

Glycine, aminoalkyl derivs.:

Species NOAEL	:	Mouse
NOAEL	:	2 mg/kg
Application Route	:	Oral
Exposure time	:	78 Weeks

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	:	EC50 (Daphnia magna (Water flea)): 0.18 mg/l
aquatic invertebrates		Exposure time: 48 h
		Analytical monitoring: yes
		Method: OECD Test Guideline 202
		GLP: yes

Components:

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 tox- icity)	:	10 Order here!
Toxicity to fish (Chronic tox- icity)	:	NOEC: 0.032 mg/l Exposure time: 34 d Species: Pimephales promelas (fathead minnow)
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOEC: 0.0042 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea)
M-Factor (Chronic aquatic toxicity)	:	1
2-phenoxyethanol:		
Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 337 - 352 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna): > 500 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EC50 (green algae): > 500 mg/l Exposure time: 72 h Method: DIN 38412



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rsion Revision I 07 13.11.202		Date of last issue: 19.09.2022
Toxicity to microorganis	ms :	EC10 (Pseudomonas putida): > 100 mg/l Exposure time: 17 h Method: DIN 38 412 Part 8
Toxicity to fish (Chronic icity)	tox- :	NOEC: 23 mg/l Exposure time: 34 d Species: Pimephales promelas (fathead minnow)
Toxicity to daphnia and a aquatic invertebrates (C ic toxicity)		NOEC: 9.43 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211
Plant toxicity	:	Remarks: No data available
Poly(oxy-1,2-ethanediy Toxicity to fish	/I), .alpha :	atridecylomegahydroxy-, branched: LC50 (Danio rerio (zebra fish)): 2.5 mg/l Exposure time: 96 h
Toxicity to daphnia and a aquatic invertebrates	other :	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 Exposure time: 72 h
		EC10 (Desmodesmus subspicatus (green algae)): 0.6 mg/ Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to fish (Chronic icity)	tox- :	NOEC: 1.73 mg/l Method: QSAR
Toxicity to daphnia and a aquatic invertebrates (C ic toxicity)		NOEC: 1.36 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: QSAR
propan-2-ol:		
Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 9,640 mg, Exposure time: 96 h
Toxicity to daphnia and a aquatic invertebrates	other :	EC50 (Daphnia magna (Water flea)): 10,000 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (Desmodesmus subspicatus (green algae)): > 100 n Exposure time: 72 h Test Type: static test
		EC50 (green algae): 1,800 mg/l Exposure time: 7 d

Betaines, C12-14-alkyldimethyl:



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Toxicity to fish	ı :	LC50 (Danio rerio (zebra fish)): 4.4 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to dap aquatic inverte		EC50 (Daphnia magna (Water flea)): 7.76 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to alg plants	ae/aquatic :	NOEC (Pseudokirchneriella subcapitata (green algae)): 0.38 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
	ohnia and other : ebrates (Chron-	NOEC: 2.99 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211
1,1',1",1"'-eth	ylenedinitrilotetr	apropan-2-ol:
		LCEO (Lausiagua idua (Caldan arta)) 100 mg/l

Toxicity to fish	:	LC50 (Leuciscus idus (Golden orfe)): > 100 mg/l Exposure time: 96 h Method: DIN 38412
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: Tested according to Directive 92/69/EEC.
Toxicity to algae/aquatic plants	:	EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l Exposure time: 72 h Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOEC: > 1 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211

Glycine, aminoalkyl derivs.:

Í	Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 0.207 µg/l Exposure time: 96 h Method: OECD Test Guideline 203
	Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.0333 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
	Toxicity to algae/aquatic plants	:	NOEC (Pseudokirchneriella subcapitata (green algae)): 0.00955 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
	M-Factor (Acute aquatic tox- icity)	:	10



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Toxicity to fish (Chronic tox icity)	 x- : NOEC: >= 0.0523 mg/l Exposure time: 28 d Species: Oncorhynchus mykiss (rainbow trout) Method: OECD Test Guideline 215
Toxicity to daphnia and oth aquatic invertebrates (Chro ic toxicity)	
M-Factor (Chronic aquatic toxicity)	: 1
12.2 Persistence and degrada	ability
Product:	
Biodegradability	: Result: Readily biodegradable. Method: OECD 301D / EEC 84/449 C6
Components:	
Quaternary ammonium c	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
2-phenoxyethanol:	
Biodegradability	 Inoculum: activated sludge Result: Readily biodegradable. Biodegradation: > 70 % Exposure time: 15 d Method: OECD Test Guideline 301A Remarks: According to the results of tests of biodegradability this product is considered as being readily biodegradable.
Poly(oxy-1,2-ethanediyl),	, .alphatridecylomegahydroxy-, branched:
Biodegradability	 Test Type: aerobic Inoculum: activated sludge Result: Readily biodegradable. Biodegradation: > 60 % Exposure time: 28 d Method: OECD Test Guideline 301B
propan-2-ol:	
Biodegradability	: Result: Readily biodegradable.
Betaines, C12-14-alkyldir	methyl:
Biodegradability	: Result: Readily biodegradable.
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1,1',1",1"'-ethylenedinitrilotetrapropan-2-ol:

12.3 Bioaccumulative potential

Components:

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

Quatornary anniornam com							
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)					
2-phenoxyethanol:							
Bioaccumulation	:	Remarks: Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected. No bioaccumulation is to be expected (log Pow <= 4).					
Partition coefficient: n- octanol/water	:	log Pow: 1.2 (23 °C) pH: 7 Method: OECD Test Guideline 107					
Poly(oxy-1,2-ethanediyl), .al	Poly(oxy-1,2-ethanediyl), .alphatridecylomegahydroxy-, branched:						
Bioaccumulation	:	Remarks: None reasonably foreseeable.					
Partition coefficient: n- octanol/water	:	Remarks: Not applicable					
. .							

propan-2-ol:

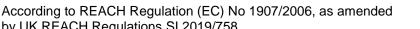
propan = on			
		Remarks: No bioaccumulation is to be expected (log Pow 4).	
Partition coefficient: n- octanol/water	:	log Pow: 0.05 (20 °C) Method: OECD Test Guideline 107	

1,1',1",1"'-ethylenedinitrilotetrapropan-2-ol:

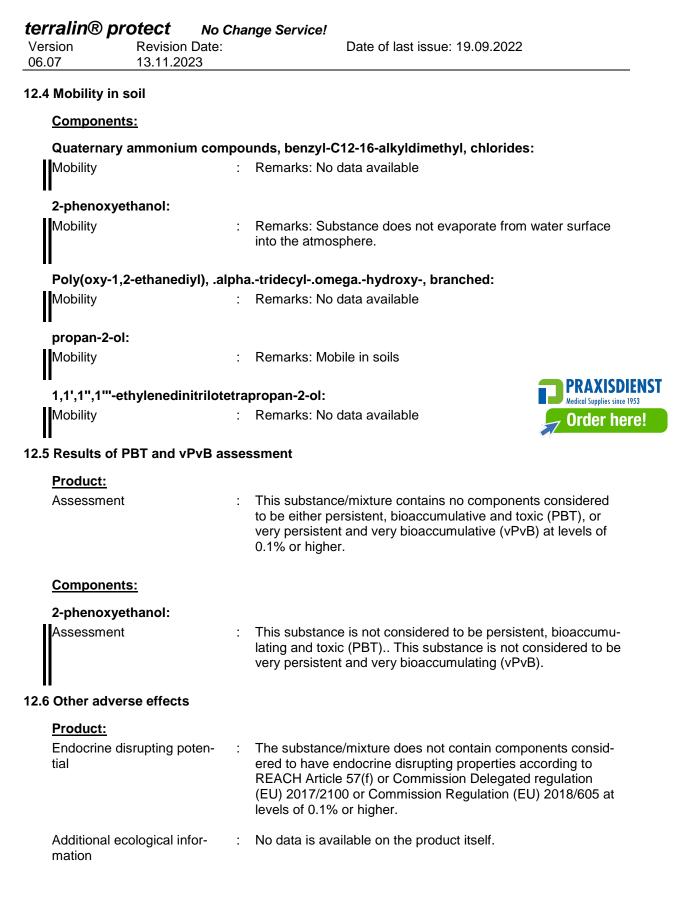
Bioaccumulation		Remarks: No data available	

Glycine, aminoalkyl derivs.:

Bioaccumulation	:	Remarks: No data available
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SECTION 13: Disposal considerations

13.1 Waste treatment methods

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

SECTION 14: Transport information

14.1 UN number			
ADR	:	UN 1903	
IMDG	:	UN 1903	
ΙΑΤΑ	:	UN 1903	
14.2 UN proper shipping name			
ADR	:		UID, CORROSIVE, N.O.S. /lbenzylammoniumchloride)
IMDG	:		UID, CORROSIVE, N.O.S. /lbenzylammoniumchloride)
ΙΑΤΑ	:	Disinfectant, liquid, co (Alkyl(C12-16)dimethy	rrosive, n.o.s. /lbenzylammoniumchloride)
14.3 Transport hazard class(es)			
		Class	Subsidiary risks
ADR	:	8	
IMDG	:	8	
ΙΑΤΑ	:	8	
14.4 Packing group			
ADR			
Packing group	:	III	
Classification Code	:	C9	
Hazard Identification Number	:	80	
Labels Tunnel restriction code	÷	8 (F)	
	•	(E)	
	_		
Packing group Labels	-	 8	
EmS Code	÷	F-A, S-B	
IATA (Cargo)		,	
Packing instruction (cargo aircraft)	:	856	
Packing instruction (LQ)	:	Y841	
Packing group	:	III	
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(Cri ani		JIIa	inge Service:	
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Labe	ls	:	Corrosive	
ΙΑΤΑ	(Passenger)			
	ing instruction (passen-	:	852	
	hircraft)			
•	ing instruction (LQ)	:	Y841	
	ing group	:	111	
Labe		:	Corrosive	
14.5 Envi	ronmental hazards			
ADR				
Envii	ronmentally hazardous	:	yes	
IMD	2			
	ne pollutant		VOC	
Iviani	le politiant	•	yes	
14.6 Spe	cial precautions for use	r		
Rem	arks	:	Not classified transport regu	as supporting combustion according to the lations.

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 fol- lowing 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
emissions (integrated p	f 24 November 2010 on industrial follution prevention and control) unds (VOC) content: 5.45 %

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according to Detergents	:	15 - < 30%: Cationic surfactants
Regulation EC 648/2004		5 - < 15%: Non-ionic surfactants
		Other constituents: Perfumes

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.
		Betaines, C12-14-alkyldimethyl Glycine, aminoalkyl derivs. reaction mass of cis-and trans-cyclohexadec-8-en-1-one
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

SECTION 16: Other informationFull text of H-Statements

H225 H302 H311 H312 H314 H318 H319 H335 H336 H373 H400 H410 H412	 Highly flammable liquid and vapour. Harmful if swallowed. Toxic in contact with skin. Harmful in contact with skin. Causes severe skin burns and eye damage. Causes serious eye damage. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects.
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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					
nixture:	Classification procedure:				
H302	Calculation method				
H314	Calculation method				
H318	Calculation method				
	H302 H314				

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Aquatic .	Acute 1	H400	Based on product data or assessment		
Aquatic	Chronic 2	H411	Calculation method		

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

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