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

1.1 Product identifier

Trade name : mikrozid® alcohol free liquid Unique Formula Identifier : 9CJ1-40E3-500F-8RWE

(UFI)

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

Use of the Sub- : Disinfectants

stance/Mixture

Recommended restrictions

on use

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

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)

Long-term (chronic) aquatic hazard, Cat-

H412: Harmful to aquatic life with long lasting effects.

egory 3

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 statements : H412 Harmful to aquatic life with long lasting effects.

Precautionary statements :

Prevention:

P273 Avoid release to the environment.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

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 : Aqueous solution

Hazardous components

Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Index-No.		
	Registration number		
Quaternary ammonium compounds,	85409-23-0	Acute Tox. 4; H302	>= 0.1 - < 0.25
C12-14-	287-090-7	Skin Corr. 1B;	
alkyl[(ethylphenyl)methyl]dimethyl,		H314	
chlorides	01-2120771812-51-	Eye Dam. 1; H318	
ll .	XXXX	Aquatic Acute 1;	
		H400	
		Aquatic Chronic 1;	
		H410	
		M-Factor (Acute	
		aquatic toxicity): 10	



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		M-Factor (Chronic aquatic toxicity): 1	
didecyldimethylammonium chloride	7173-51-5 230-525-2 612-131-00-6 01-2119945987-15- XXXX	Acute Tox. 3; H301 Skin Corr. 1B; H314 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 2; H411	>= 0.1 - < 0.25
		M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 1	
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlo- rides	68424-85-1 270-325-2 01-2119965180-41- XXXX	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Corr. 1B; H314 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0.1 - < 0.25
		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 contaminated clothing and shoes immediately.

If inhaled : If symptoms persist, call a physician.

In case of skin contact : Wash with water and soap as a precaution.

If symptoms persist, call a physician.

In case of eye contact : Flush eyes with water as a precaution.

If eye irritation persists, consult a specialist.

If swallowed : Do NOT induce vomiting.

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> Drink water as a precaution. Consult a physician if necessary.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms Treat symptomatically.

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

Dry powder Suitable extinguishing media :

Carbon dioxide (CO2)

Water spray jet

Foam

Unsuitable extinguishing

media

Do NOT use water jet.

5.2 Special hazards arising from the substance or mixture

ucts

Hazardous combustion prod- : No hazardous combustion products are known

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 Use personal protective equipment.

6.2 Environmental precautions

Environmental precautions : Avoid subsoil penetration.

6.3 Methods and material for containment and cleaning up

Wipe up with absorbent material (e.g. cloth, fleece). Methods for cleaning up

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

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling No special precautions required.

Advice on protection against :

fire and explosion

No special protective measures against fire required.

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 stor-

age conditions

: Keep container tightly closed. Protect from frost, heat and sunlight. Recommended storage temperature: 15 - 25°C

Advice on common storage : Keep away from food and drink.

7.3 Specific end use(s)

Specific use(s) none

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

Derived No Effect Level (DNEL):

Substance name	End Use	Exposure routes	Potential health effects	Value
Quaternary ammonium compounds, C12-14-al-kyl[(ethylphenyl)methyl]dimethyl, chlorides	Workers	Inhalation	Long-term systemic effects	1 mg/m3
didecyldime- thylammonium chlo- ride	Workers	Inhalation	Acute systemic ef- fects, Long-term systemic effects	5.39 mg/m3
	Workers	Dermal	Acute systemic ef- fects, Long-term systemic effects	1.55 mg/kg
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

Predicted No Effect Concentration (PNEC):

Substance name	Environmental Compartment	Value
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Quaternary ammonium compounds, C12-14-al-kyl[(ethylphenyl)methyl]dimethyl, chlorides	Fresh water	0.000415 mg/l
	Marine water	0.000042 mg/l
	Sewage treatment plant	0.21 mg/l
	Fresh water sediment	6.81 mg/kg
	Marine sediment	0.681 mg/kg
	Soil	1.36 mg/kg
didecyldimethylammonium chlo- ride	Fresh water	0.002 mg/l
	Marine water	0.0002 mg/l
	Fresh water sediment	2.82 mg/kg
	Marine sediment	0.28 mg/kg
	Sewage treatment plant	0.595 mg/l
	Soil	1.4 mg/kg
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

8.2 Exposure controls

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 : 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 protec-

tion.

Respiratory protection : No personal respiratory protective equipment normally re-

quired.

Protective measures : Avoid contact with eyes.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid



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Colour : colourless

Odour : characteristic

Odour Threshold : not determined

pH : 5 - 8 (20 °C)

Concentration: 100 %

Melting point/freezing point : ca. 0 °C

Decomposition temperature Not applicable

Boiling point/boiling range : ca. 100 °C

Flash point : Not applicable

Evaporation rate : not determined

Flammability (solid, gas) : Not applicable

Upper explosion limit / Upper

flammability limit

Not applicable

Lower explosion limit / Lower

flammability limit

Not applicable

Vapour pressure : No data available

Relative vapour density : Not applicable

Density : ca. 1.00 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 : not determined

Viscosity, kinematic : not determined

Explosive properties : Not applicable

Oxidizing properties : The substance or mixture is not classified as oxidizing.

9.2 Other information

Metal corrosion rate : None reasonably foreseeable.

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SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Hazardous reactions : None reasonably foreseeable.

10.4 Conditions to avoid

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

10.5 Incompatible materials

Materials to avoid : Never mix concentrates directly.

10.6 Hazardous decomposition products

None reasonably foreseeable.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Not classified based on available information.

Product:

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

Method: Calculation method

Components:

Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides:

Acute oral toxicity : LD50 (Rat): 344 mg/kg

Method: OECD Test Guideline 401

Remarks: Based on data from similar materials

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : LD50 (Rabbit): 2,300 mg/kg

Method: OECD Test Guideline 402

Remarks: Based on data from similar materials

didecyldimethylammonium chloride:

Acute oral toxicity : LD50 (Rat): 238 mg/kg

Method: OECD Test Guideline 401 Assessment: Toxic if swallowed.

Acute inhalation toxicity : Remarks: No data available

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Acute dermal toxicity : LD50 (Rabbit): 3,342 mg/kg

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.

Skin corrosion/irritation

Not classified based on available information.

Components:

Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides:

Species : Rabbit

Result : Corrosive after 3 minutes to 1 hour of exposure

didecyldimethylammonium chloride:

Species : Rabbit Exposure time : 4 h

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

Serious eye damage/eye irritation

Not classified based on available information.

Components:

didecyldimethylammonium chloride:

Result : Irreversible effects on the eye

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

Result : Irreversible effects on the eye

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

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Respiratory sensitisation

Not classified based on available information.

Components:

didecyldimethylammonium chloride:

Test Type : Buehler Test Species : Guinea pig

Method : OECD Test Guideline 406

Result : Did not cause sensitisation on laboratory animals.

GLP : yes

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

Germ cell mutagenicity

Not classified based on available information.

Components:

Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides:

Genotoxicity in vitro : Test Type: Microbial mutagenesis assay (Ames test)

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Result: negative GLP: yes

Test Type: Chromosome aberration test in vitro

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

GLP: yes

Remarks: Based on data from similar materials

didecyldimethylammonium chloride:

Genotoxicity in vitro : Test system: Salmonella typhimurium

Metabolic activation: Metabolic activation Method: OECD Test Guideline 471 Result: Not mutagenic in Ames Test

Genotoxicity in vivo : Test Type: Mutagenicity (in vivo mammalian bone-marrow

cytogenetic test, chromosomal analysis)

Species: Rat

Application Route: Oral

Method: OECD Test Guideline 475

Result: negative

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Germ cell mutagenicity- As-

sessment

: Animal testing did not show any mutagenic effects.

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- As-

sessment

Tests on bacterial or mammalian cell cultures did not show

mutagenic effects.

Carcinogenicity

Not classified based on available information.

Components:

Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides:

Remarks No data available

didecyldimethylammonium chloride:

Carcinogenicity - Assess-

: Animal testing did not show any carcinogenic effects.

ment

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

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

ment

Reproductive toxicity

Not classified based on available information.

Components:

Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, 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: 51 - 102 mg/kg body weight

GLP: yes

didecyldimethylammonium chloride:

Reproductive toxicity - As-No data available

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sessment

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: ves

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.

STOT - single exposure

Not classified based on available information.

Components:

Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides:

Remarks : No data available

didecyldimethylammonium chloride:

Remarks : No data available

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

Remarks : No data available

STOT - repeated exposure

Not classified based on available information.

Components:

Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides:

Remarks : No data available

didecyldimethylammonium chloride:

Remarks : No data available

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

Remarks : No data available

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Repeated dose toxicity

Components:

Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides:

Remarks : No data available

didecyldimethylammonium chloride:

Remarks : No data available

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

Rat, male Species 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**

Aspiration toxicity

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

Components:

Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides:

Toxicity to fish LC50 (Fish): 1.06 mg/l

Exposure time: 96 h

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 0.015 mg/l

Exposure time: 48 h

M-Factor (Acute aquatic tox- : 10

icity)

Toxicity to fish (Chronic tox-NOEC: 0.032 mg/l icity) Exposure time: 28 d



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Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other: aquatic invertebrates (Chron-

NOEC: 0.00415 mg/l Exposure time: 21 d

ic toxicity)

Species: Daphnia magna (Water flea)

GLP: yes

M-Factor (Chronic aquatic

toxicity)

1

didecyldimethylammonium chloride:

Toxicity to fish LC50 (Pimephales promelas (fathead minnow)): 0.19 mg/l

Exposure time: 96 h

GLP: ves

Toxicity to daphnia and other:

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 0.062 mg/l

Exposure time: 48 h

GLP: yes

Toxicity to algae/aquatic

plants

ErC50 (Pseudokirchneriella subcapitata (green algae)): 0.026

mg/l

Exposure time: 96 h

Method: OECD Test Guideline 201

GLP: yes

M-Factor (Acute aquatic tox-

icity)

10

Toxicity to fish (Chronic tox-

icity)

NOEC: 0.032 mg/l

Exposure time: 34 d

Species: Danio rerio (zebra fish) Method: OECD Test Guideline 210

Toxicity to daphnia and other:

aquatic invertebrates (Chron-

ic toxicity)

NOEC: 0.014 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

Method: Expert judgement and weight of evidence determina-

tion.

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

Toxicity to algae/aquatic

plants

Exposure time: 48 h

IC50: 0.03 mg/l Exposure time: 72 h



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M-Factor (Acute aquatic tox- :

icity)

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)

12.2 Persistence and degradability

Components:

Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides:

Biodegradability : Result: Readily biodegradable.

: 1

Biodegradation: 95.5 % Exposure time: 28 d

Method: OECD Test Guideline 301B

Remarks: Based on data from similar materials

didecyldimethylammonium chloride:

Biodegradability : Concentration: 10 mg/l

Result: Readily biodegradable.

Biodegradation: 72 % Exposure time: 28 d

Method: OECD 301B/ ISO 9439/ EEC 84/449 C5

GLP: yes

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

12.3 Bioaccumulative potential

Components:

Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

didecyldimethylammonium chloride:

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)

Exposure time: 46 d

Bioconcentration factor (BCF): 81

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

Bioaccumulation : Exposure time: 35 d

Concentration: 0.076 mg/l

Bioconcentration factor (BCF): 79

GLP: ves

Remarks: Does not bioaccumulate.

Partition coefficient: n-

octanol/water

log Pow: 2.75 (20 °C)

12.4 Mobility in soil

Components:

Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides:

Mobility : Medium: Soil

Remarks: immobile

didecyldimethylammonium chloride:

Mobility : Remarks: Mobile in soils

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

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.

12.6 Other adverse effects

Product:

Endocrine disrupting poten-

tial

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 infor-

mation

: 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.

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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 : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

IATA : Not regulated as a dangerous good

14.2 UN proper shipping name

ADR : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

IATA : Not regulated as a dangerous good

14.3 Transport hazard class(es)

ADR : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

IATA : Not regulated as a dangerous good

14.4 Packing group

ADR : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

IATA (Cargo) : Not regulated as a dangerous good

IATA (Passenger) : Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

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 : Not applicable





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concern (SVHC) for Authorisation

The Persistent Organic Pollutants Regulations (retained Not applicable

Regulation (EU) 2019/1021 as amended for Great Brit-

ain)

International Chemical Weapons Convention (CWC) Not applicable

Schedules of Toxic Chemicals and Precursors

Regulation (EC) No 1005/2009 on substances that de-

plete the ozone layer

UK REACH List of substances subject to authorisation

(Annex XIV)

Volatile organic compounds Directive 2010/75/EU of 24 November 2010 on industrial

> emissions (integrated pollution prevention and control) Volatile organic compounds (VOC) content: 0.11 %

Not applicable

Not applicable

according to Detergents Regulation EC 648/2004

: < 5%: Cationic surfactants

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

TCSI On the inventory, or 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.

Quaternary ammonium compounds, C12-14alkyl[(ethylphenyl)methyl]dimethyl, chlorides

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 On the inventory, or in compliance with the inventory

NZIoC Not in compliance with the inventory

TECI On the inventory, or in compliance with the inventory

15.2 Chemical safety assessment

Exempt

SECTION 16: Other informationFull text of H-Statements



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

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H301 H302 H312 H314 H318 H400 H410 H411	: : : : :	Toxic if swallowed. Harmful if swallowed. Harmful in contact with skin. Causes severe skin burns and eye damage. Causes serious eye damage. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Toxic 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 Skin Corr. : Skin corrosion

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:

Aquatic Chronic 3 H412 Calculation method

schülke ->

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

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

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