

## Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

#### 1.1 Product identifier

**Flaechendesinfektion**  
**Surface Disinfection**

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

**Relevant identified uses of the substance or mixture:**

Disinfectant

**Uses advised against:**

No information available at present.

#### 1.3 Details of the supplier of the safety data sheet

LIQUI MOLY GmbH  
Jerg-Wieland-Str. 4  
89081 Ulm-Lehr  
Tel.: (+49) 0731-1420-0  
Fax: (+49) 0731-1420-88

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

#### 1.4 Emergency telephone number

**Emergency information services / official advisory body:**

---

**Telephone number of the company in case of emergencies:**

+49 (0) 700 / 24 112 112 (LMR)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) 1272/2008 (CLP)**

Hazard class	Hazard category	Hazard statement
Aquatic Chronic	3	H412-Harmful to aquatic life with long lasting effects.

#### 2.2 Label elements

**Labeling according to Regulation (EC) 1272/2008 (CLP)**

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 12.11.2020 / 0001  
 Replacing version dated / version: 12.11.2020 / 0001  
 Valid from: 12.11.2020  
 PDF print date: 11.05.2021  
 Flaechendesinfektion  
 Surface Disinfection

H412-Harmful to aquatic life with long lasting effects.

P273-Avoid release to the environment.

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

## 2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

n.a.

### 3.2 Mixtures

<b>Didecyldimethylammonium chloride</b>	
<b>Registration number (REACH)</b>	01-2119945987-15-XXXX
<b>Index</b>	612-131-00-6
<b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>	230-525-2
<b>CAS</b>	7173-51-5
<b>content %</b>	0,25
<b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b>	Skin Corr. 1B, H314 Acute Tox. 3, H301 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 2, H411 Eye Dam. 1, H318
<b>Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides</b>	
<b>Registration number (REACH)</b>	01-2119983287-23-XXXX
<b>Index</b>	---
<b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>	270-325-2
<b>CAS</b>	68424-85-1
<b>content %</b>	0,25
<b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b>	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=1)
<b>Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides</b>	
<b>Registration number (REACH)</b>	01-2120771812-51-XXXX
<b>Index</b>	---
<b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>	287-090-7
<b>CAS</b>	85409-23-0
<b>content %</b>	0,25
<b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b>	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=1)

Impurities, test data and additional information may have been taken into account in classifying and labelling the product.

Page 3 of 14  
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
Revision date / version: 12.11.2020 / 0001  
Replacing version dated / version: 12.11.2020 / 0001  
Valid from: 12.11.2020  
PDF print date: 11.05.2021  
Flaechendesinfektion  
Surface Disinfection

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.  
The substances named in this section are given with their actual, appropriate classification!  
For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

First-aiders should ensure they are protected!  
Never pour anything into the mouth of an unconscious person!

#### Inhalation

Supply person with fresh air and consult doctor according to symptoms.

#### Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

#### Eye contact

Remove contact lenses.  
Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

#### Ingestion

Rinse the mouth thoroughly with water.  
Give copious water to drink - consult doctor immediately.

### 4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.  
In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

### 4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

CO<sub>2</sub>  
Exinction powder  
Water jet spray  
Large fire:  
Alcohol resistant foam  
Water jet spray

#### Unsuitable extinguishing media

None known

### 5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon  
Oxides of nitrogen  
Hydrogen chloride  
Nitro gases  
Toxic gases

### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes.  
Protective respirator with independent air supply.  
According to size of fire  
Full protection, if necessary.  
Dispose of contaminated extinction water according to official regulations.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

No special measures required.

Page 4 of 14  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 12.11.2020 / 0001  
 Replacing version dated / version: 12.11.2020 / 0001  
 Valid from: 12.11.2020  
 PDF print date: 11.05.2021  
 Flaechendesinfektion  
 Surface Disinfection

Avoid contact with eyes or skin.  
 If applicable, caution - risk of slipping.

## 6.2 Environmental precautions

If leakage occurs, dam up.  
 Resolve leaks if this possible without risk.  
 Prevent surface and ground-water infiltration, as well as ground penetration.  
 Prevent from entering drainage system.  
 If accidental entry into drainage system occurs, inform responsible authorities.

## 6.3 Methods and material for containment and cleaning up

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and dispose of according to Section 13.  
 Flush residue using copious water.

## 6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

## SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

### 7.1 Precautions for safe handling

#### 7.1.1 General recommendations

Avoid contact with eyes.  
 Avoid long lasting or intensive contact with skin.  
 Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.  
 Observe directions on label and instructions for use.

#### 7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.  
 Wash hands before breaks and at end of work.  
 Keep away from food, drink and animal feedingstuffs.  
 Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.  
 Store product closed and only in original packing.  
 Not to be stored in gangways or stair wells.  
 Store at room temperature.  
 Protect from frost.

### 7.3 Specific end use(s)

No information available at present.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Didecyldimethylammonium chloride						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	0,002	mg/l	
	Environment - marine		PNEC	0,0002	mg/l	
	Environment - sediment, freshwater		PNEC	2,82	mg/kg	
	Environment - sediment, marine		PNEC	0,28	mg/kg	
	Environment - sewage treatment plant		PNEC	0,595	mg/l	
	Environment - soil		PNEC	1,4	mg/kg	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	5,39	mg/m3	

Page 5 of 14  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 12.11.2020 / 0001  
 Replacing version dated / version: 12.11.2020 / 0001  
 Valid from: 12.11.2020  
 PDF print date: 11.05.2021  
 Flaechendesinfektion  
 Surface Disinfection

Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	5,39	mg/m <sup>3</sup>	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	1,55	mg/kg	
Workers / employees	Human - dermal	Short term, systemic effects	DNEL	1,55	mg/kg	

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	0,0009	mg/l	
	Environment - marine		PNEC	0,00009	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	0,00016	mg/l	
	Environment - sewage treatment plant		PNEC	0,4	mg/l	
	Environment - sediment, freshwater		PNEC	0,267	mg/kg dw	
	Environment - sediment, marine		PNEC	0,0267	mg/kg dw	
	Environment - soil		PNEC	7	mg/kg bw/d	
Consumer	Human - oral	Long term, systemic effects	DNEL	3,4	mg/kg bw/d	
Consumer	Human - dermal	Long term, systemic effects	DNEL	3,4	mg/kg bw/d	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	1,64	mg/m <sup>3</sup>	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	5,7	mg/kg bw/d	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	3,96	mg/m <sup>3</sup>	

Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	0,000415	mg/l	
	Environment - marine		PNEC	0,000042	mg/l	
	Environment - sewage treatment plant		PNEC	0,21	mg/l	
	Environment - sediment, freshwater		PNEC	6,81	mg/kg	
	Environment - sediment, marine		PNEC	0,681	mg/kg	
	Environment - soil		PNEC	1,36	mg/kg	
Consumer	Human - oral	Long term, local effects	DNEL	2	mg/m <sup>3</sup>	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	1	mg/m <sup>3</sup>	

## 8.2 Exposure controls

### 8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.  
 If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.  
 Applies only if maximum permissible exposure values are listed here.

### 8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Page 6 of 14  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 12.11.2020 / 0001  
 Replacing version dated / version: 12.11.2020 / 0001  
 Valid from: 12.11.2020  
 PDF print date: 11.05.2021  
 Flaechendesinfektion  
 Surface Disinfection

Wash hands before breaks and at end of work.  
 Keep away from food, drink and animal feedingstuffs.  
 Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:  
 Tight fitting protective goggles (EN 166) with side protection, with danger of splashes.

Skin protection - Hand protection:  
 Normally not necessary.  
 If applicable  
 Rubber gloves (EN 374).  
 Minimum layer thickness in mm:  
 0,5  
 Permeation time (penetration time) in minutes:  
 480  
 The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.  
 The recommended maximum wearing time is 50% of breakthrough time.  
 Protective hand cream recommended.

Skin protection - Other:  
 Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection:  
 Normally not necessary.

Thermal hazards:  
 Not applicable

Additional information on hand protection - No tests have been performed.  
 In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.  
 Selection of materials derived from glove manufacturer's indications.  
 Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.  
 Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.  
 In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.  
 The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

### 8.2.3 Environmental exposure controls

No information available at present.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	Colourless
Odour:	Odourless
Odour threshold:	Not determined
pH-value:	7 (DIN 19268)
Melting point/freezing point:	Not determined
Initial boiling point and boiling range:	Not determined
Flash point:	>68 °C
Evaporation rate:	Not determined
Flammability (solid, gas):	n.a.
Lower explosive limit:	Not determined
Upper explosive limit:	Not determined
Vapour pressure:	23 hPa (20°C)
Vapour density (air = 1):	Not determined
Density:	1 g/cm <sup>3</sup> (20°C, DIN 51757)
Bulk density:	Not determined
Solubility(ies):	Not determined
Water solubility:	Soluble
Partition coefficient (n-octanol/water):	Not determined

Page 7 of 14  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 12.11.2020 / 0001  
 Replacing version dated / version: 12.11.2020 / 0001  
 Valid from: 12.11.2020  
 PDF print date: 11.05.2021  
 Flaechendesinfektion  
 Surface Disinfection

Auto-ignition temperature: No  
 Decomposition temperature: Not determined  
 Viscosity: Not determined  
 Explosive properties: Product is not explosive.  
 Oxidising properties: No

## 9.2 Other information

Miscibility: Not determined  
 Fat solubility / solvent: Not determined  
 Conductivity: Not determined  
 Surface tension: Not determined  
 Solvents content: Not determined

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Not to be expected

### 10.2 Chemical stability

Stable with proper storage and handling.

### 10.3 Possibility of hazardous reactions

No dangerous reactions are known.

### 10.4 Conditions to avoid

None known

### 10.5 Incompatible materials

None known

### 10.6 Hazardous decomposition products

No decomposition when used as directed.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Possibly more information on health effects, see Section 2.1 (classification).

#### Flaechendesinfektion

#### Surface Disinfection

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:						n.d.a.
Acute toxicity, by dermal route:						n.d.a.
Acute toxicity, by inhalation:						n.d.a.
Skin corrosion/irritation:						n.d.a.
Serious eye damage/irritation:						n.d.a.
Respiratory or skin sensitisation:						n.d.a.
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity - single exposure (STOT-SE):						n.d.a.
Specific target organ toxicity - repeated exposure (STOT-RE):						n.d.a.
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.

#### Didecyldimethylammonium chloride

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	238	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	3342	mg/kg	Rabbit		
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Corrosive

Page 8 of 14  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 12.11.2020 / 0001  
 Replacing version dated / version: 12.11.2020 / 0001  
 Valid from: 12.11.2020  
 PDF print date: 11.05.2021  
 Flaechendesinfektion  
 Surface Disinfection

Serious eye damage/irritation:						Corrosive
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Not sensitizing
Germ cell mutagenicity:					(Ames-Test)	Negative
Germ cell mutagenicity:				Rat	OECD 475 (Mammalian Bone Marrow Chromosome Aberration Test)	Negative/oral
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Carcinogenicity:						Negative
Symptoms:						blisters by skin-contact, cornea opacity, coughing, collapse, cramps, pain in the ribcage, watering eyes

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

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	344	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	3412	mg/kg	Rabbit	U.S. EPA Guideline OPPTS 870.1200	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	CorrosiveExpositi ontime: 24 h
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Corrosive
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Not sensitizing
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:					OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative
Reproductive toxicity (Developmental toxicity):	NOEL	8,1	mg/kg	Rat	OECD 414 (Prenatal Developmental Toxicity Study)	Negative
Reproductive toxicity (Effects on fertility):	NOAEL	51-102	mg/kg	Rat	OECD 416 (Two-generation Reproduction Toxicity Study)	Negative
Aspiration hazard:						No

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

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	344	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	Analogous conclusion
Acute toxicity, by dermal route:	LD50	2300	mg/kg			Analogous conclusion
Germ cell mutagenicity:				Salmonella typhimurium	(Ames-Test)	Negative
Germ cell mutagenicity:					OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative, Analogous conclusion

**SECTION 12: Ecological information**



Page 9 of 14  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 12.11.2020 / 0001  
 Replacing version dated / version: 12.11.2020 / 0001  
 Valid from: 12.11.2020  
 PDF print date: 11.05.2021  
 Flaechendesinfektion  
 Surface Disinfection

Possibly more information on environmental effects, see Section 2.1 (classification).

Flaechendesinfektion Surface Disinfection							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:							n.d.a.
12.1. Toxicity to daphnia:							n.d.a.
12.1. Toxicity to algae:							n.d.a.
12.2. Persistence and degradability:							n.d.a.
12.3. Bioaccumulative potential:							n.d.a.
12.4. Mobility in soil:							n.d.a.
12.5. Results of PBT and vPvB assessment							n.d.a.
12.6. Other adverse effects:							n.d.a.
Other information:	AOX		0	%			Does not contain any organically bound halogens which can contribute to the AOX value in waste water.
Other information:							DOC-elimination degree(complexing organic substance)>= 80%/28d: n.a.

Didecyldimethylammonium chloride							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	0,19	mg/l	Pimephales promelas	U.S. EPA ECOTOX Database	
12.1. Toxicity to fish:	NOEC/NOEL	34d	0,032	mg/l	Brachydanio rerio	OECD 210 (Fish, Early-Life Stage Toxicity Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	0,014	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	Expert judgement
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	0,010	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	
12.1. Toxicity to daphnia:	EC50	48h	0,062	mg/l	Daphnia magna	U.S. EPA ECOTOX Database	
12.1. Toxicity to algae:	ErC50	96h	0,026	mg/l	Selenastrum capricornutum	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	72	%		OECD 301 B (Ready Biodegradability - Co2 Evolution Test)	Readily biodegradable
12.3. Bioaccumulative potential:	BCF		81		Lepomis macrochirus		(EPA-FIFRA/46d)
Toxicity to bacteria:	EC50	3h	11	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	

Page 10 of 14  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 12.11.2020 / 0001  
 Replacing version dated / version: 12.11.2020 / 0001  
 Valid from: 12.11.2020  
 PDF print date: 11.05.2021  
 Flaechendesinfektion  
 Surface Disinfection

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	0,085	mg/l	Oncorhynchus mykiss		
12.3. Bioaccumulative potential:	BCF	35d	79		Lepomis macrochirus		
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	0,025	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	
12.1. Toxicity to daphnia:	EC50	48h	0,016	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	ErC50	72h	0,049	mg/l	Scenedesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	EC50	72h	0,025	mg/l	Selenastrum capricornutum	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:	COD		1130	mg/g			
12.2. Persistence and degradability:		28d	95,5	%		OECD 301 B (Ready Biodegradability - Co2 Evolution Test)	Readily biodegradable
12.3. Bioaccumulative potential:	Log Kow		2,88			OECD 107 (Partition Coefficient (n-octanol/water) - Shake Flask Method)	
12.4. Mobility in soil:							No
Toxicity to bacteria:	EC50	3h	7,75	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
Other organisms:	EC50	28d	>1000	mg/kg		OECD 216 (Soil Microorganisms - Nitrogen Transformation Test)	
Other organisms:	EC50	14d	277-1900	mg/kg		OECD 208 (Terrestrial Plants, Growth Test)	
Toxicity to annelids:	LC50	14d	7070	mg/l	Lumbricus terrestris	OECD 207 (Earthworm, Acute Toxicity Tests)	

Quaternary ammonium compounds, C12-14-alkyl[(ethyl)phenyl)methyl]dimethyl, chlorides							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.2. Persistence and degradability:		28d	95,5	%		OECD 301 B (Ready Biodegradability - Co2 Evolution Test)	Readily biodegradable
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	>4,15	µg/l	Daphnia magna		

Page 11 of 14  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 12.11.2020 / 0001  
 Replacing version dated / version: 12.11.2020 / 0001  
 Valid from: 12.11.2020  
 PDF print date: 11.05.2021  
 Flaechendesinfektion  
 Surface Disinfection

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### For the substance / mixture / residual amounts

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product. Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU)

07 06 01 aqueous washing liquids and mother liquors

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

E.g. suitable incineration plant.

E.g. dispose at suitable refuse site.

#### For contaminated packing material

Pay attention to local and national official regulations.

Empty container completely.

Uncontaminated packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

Recommended cleaner:

Water

## SECTION 14: Transport information

### General statements

14.1. UN number: n.a.

#### Transport by road/by rail (ADR/RID)

14.2. UN proper shipping name:

14.3. Transport hazard class(es): n.a.

14.4. Packing group: n.a.

Classification code: n.a.

LQ: n.a.

14.5. Environmental hazards: Not applicable

Tunnel restriction code:

#### Transport by sea (IMDG-code)

14.2. UN proper shipping name:

14.3. Transport hazard class(es): n.a.

14.4. Packing group: n.a.

Marine Pollutant: n.a.

14.5. Environmental hazards: Not applicable

#### Transport by air (IATA)

14.2. UN proper shipping name:

14.3. Transport hazard class(es): n.a.

14.4. Packing group: n.a.

14.5. Environmental hazards: Not applicable

#### 14.6. Special precautions for user

Unless specified otherwise, general measures for safe transport must be followed.

#### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Non-dangerous material according to Transport Regulations.

## SECTION 15: Regulatory information

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

Observe restrictions:

Regulation (EU) No 649/2012 'concerning the export and import of hazardous chemicals' must be adhered to, as the product contains a substance that falls within the scope of this Regulation.

Page 12 of 14  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 12.11.2020 / 0001  
 Replacing version dated / version: 12.11.2020 / 0001  
 Valid from: 12.11.2020  
 PDF print date: 11.05.2021  
 Flächendesinfektion  
 Surface Disinfection

Comply with trade association/occupational health regulations.

Directive 2010/75/EU (VOC): 0,31 %

Observe Regulation (EU) No 528/2012 concerning the placing of biocidal products on the market.

Additional data acc. to Art. 69 (2), Regulation (EU) No 528/2012 (Biocide products):

The identity of every active substance and its concentration in metric units:

Didecyldimethylammonium chloride

0,25 g/100 g

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

0,25 g/100 g

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

0,25 g/100 g

The uses:

Disinfection

Biocidal product authorisation number (Regulation (EU) No. 528/2012):

n.d.a.

## 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

## SECTION 16: Other information

Revised sections: n.a.

These details refer to the product as it is delivered.

Employee instruction/training in handling hazardous materials is required.

### Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

Classification in accordance with regulation (EC) No. 1272/2008 (CLP)	Evaluation method used
Aquatic Chronic 3, H412	Classification according to calculation procedure.

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

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.

Aquatic Chronic — Hazardous to the aquatic environment - chronic

Skin Corr. — Skin corrosion

Acute Tox. — Acute toxicity - oral

Aquatic Acute — Hazardous to the aquatic environment - acute

Eye Dam. — Serious eye damage

### Any abbreviations and acronyms used in this document:

acc., acc. to according, according to

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)

AOX Adsorbable organic halogen compounds

approx. approximately

Art., Art. no. Article number

ASTM ASTM International (American Society for Testing and Materials)

Page 13 of 14  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 12.11.2020 / 0001  
 Replacing version dated / version: 12.11.2020 / 0001  
 Valid from: 12.11.2020  
 PDF print date: 11.05.2021  
 Flaechendesinfektion  
 Surface Disinfection

ATE Acute Toxicity Estimate  
 BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)  
 BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)  
 BSEF The International Bromine Council  
 bw body weight  
 CAS Chemical Abstracts Service  
 CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)  
 CMR carcinogenic, mutagenic, reproductive toxic  
 DMEL Derived Minimum Effect Level  
 DNEL Derived No Effect Level  
 dw dry weight  
 e.g. for example (abbreviation of Latin 'exempli gratia'), for instance  
 EC European Community  
 ECHA European Chemicals Agency  
 EEC European Economic Community  
 EINECS European Inventory of Existing Commercial Chemical Substances  
 ELINCS European List of Notified Chemical Substances  
 EN European Norms  
 EPA United States Environmental Protection Agency (United States of America)  
 etc. et cetera  
 EU European Union  
 EVAL Ethylene-vinyl alcohol copolymer  
 Fax. Fax number  
 gen. general  
 GHS Globally Harmonized System of Classification and Labelling of Chemicals  
 GWP Global warming potential  
 IARC International Agency for Research on Cancer  
 IATA International Air Transport Association  
 IBC (Code) International Bulk Chemical (Code)  
 IMDG-code International Maritime Code for Dangerous Goods  
 incl. including, inclusive  
 IUCLID International Uniform Chemical Information Database  
 IUPAC International Union for Pure Applied Chemistry  
 LC50 Lethal Concentration to 50 % of a test population  
 LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)  
 LQ Limited Quantities  
 MARPOL International Convention for the Prevention of Marine Pollution from Ships  
 n.a. not applicable  
 n.av. not available  
 n.c. not checked  
 n.d.a. no data available  
 OECD Organisation for Economic Co-operation and Development  
 org. organic  
 PBT persistent, bioaccumulative and toxic  
 PE Polyethylene  
 PNEC Predicted No Effect Concentration  
 ppm parts per million  
 PVC Polyvinylchloride  
 REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)  
 REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.  
 RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)  
 SVHC Substances of Very High Concern  
 Tel. Telephone  
 UN RTDG United Nations Recommendations on the Transport of Dangerous Goods  
 VOC Volatile organic compounds  
 vPvB very persistent and very bioaccumulative  
 wwt wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they are

GB

Page 14 of 14  
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
Revision date / version: 12.11.2020 / 0001  
Replacing version dated / version: 12.11.2020 / 0001  
Valid from: 12.11.2020  
PDF print date: 11.05.2021  
Flächendesinfektion  
Surface Disinfection

---

not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.  
No responsibility.

These statements were made by:

**Chemical Check GmbH, Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax:  
+49 5233 94 17 90**

© by Chemical Check GmbH Gefahrstoffberatung. The copying or changing of this document  
is forbidden except with consent of the Chemical Check GmbH Gefahrstoffberatung.