

## 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

### Elix® Clean Desinfizierende Reinigungstücher

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

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

Ready for use towelettes  
Disinfectant  
Biocide

##### Uses advised against:

No information available at present.

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

GB

ECS Cleaning Solutions GmbH  
Wolfener Str. 32-34  
12681 Berlin  
Tel.: +49 (0)30 3646 4036

E-mail address of the competent person: Gukleinmann@gekace.com

#### 1.4 Emergency telephone number

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

GB

+49 30 19240 (D-13437 Berlin, 24 hour)  
Tox Info Suisse, Freiestrasse 16, CH-8032 Zurich, Switzerland. Emergency phone: 145 (from abroad: +41 44 251 51 51)  
Toxication information centre of Gesundheit Österreich GmbH, Vienna. EMERGENCY phone: 01 406 43 43 (from outside of Austria phone: +43 1 406 43 43)

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

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### 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)

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 %).

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 12.02.2021 / 0002  
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 Elix® Clean Desinfizierende Reinigungstücher

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

n.a.

### 3.2 Mixtures

|  |  |
|--|--|
| <b>Didecyldimethylammonium chloride</b>                            |  |
| <b>Registration number (REACH)</b>                                 | ---  |
| <b>Index</b>   | 612-131-00-6   |
| <b>EINECS, ELINCS, NLP</b>   | 230-525-2  |
| <b>CAS</b>   | 7173-51-5  |
| <b>content %</b>   | 0,24   |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP)</b> | Skin Corr. 1B, H314<br>Acute Tox. 3, H301<br>Aquatic Acute 1, H400 (M=10)<br>Aquatic Chronic 2, H411<br>Eye Dam. 1, H318 |

|  |  |
|--|--|
| <b>Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides</b> |  |
| <b>Registration number (REACH)</b>   | ---  |
| <b>Index</b>   | ---  |
| <b>EINECS, ELINCS, NLP</b>   | 270-325-2  |
| <b>CAS</b>   | 68424-85-1   |
| <b>content %</b>   | 0,24   |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP)</b>           | Acute Tox. 4, H302<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Aquatic Acute 1, H400 (M=10)<br>Aquatic Chronic 1, H410 (M=1) |

|  |  |
|--|--|
| <b>Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides</b> |  |
| <b>Registration number (REACH)</b>   | ---  |
| <b>Index</b>   | ---  |
| <b>EINECS, ELINCS, NLP</b>   | 287-090-7  |
| <b>CAS</b>   | 85409-23-0   |
| <b>content %</b>   | 0,24   |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP)</b>                         | Acute Tox. 4, H302<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Aquatic Acute 1, H400 (M=10)<br>Aquatic Chronic 1, H410 (M=1) |

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.

#### Skin contact

Wash thoroughly with soap and water.

Remove contaminated clothing immediately.

#### Eye contact

Remove contact lenses.

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

## Ingestion

Typically no exposure pathway.

Rinse the mouth thoroughly with water.

Give copious water to drink. Consult doctor if necessary.

### 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

Adapt to the nature and extent of fire.

Water jet spray / alcohol resistant foam / CO<sub>2</sub> / dry extinguisher.

#### 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

Toxic gases

### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes.

Protective respirator with independent air supply.

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.

Ensure sufficient supply of air.

Avoid contact with eyes or skin.

### 6.2 Environmental precautions

Prevent from entering drainage system.

### 6.3 Methods and material for containment and cleaning up

Pick up mechanically and dispose of according to Section 13.

### 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.

Use working methods according to operating instructions.

#### 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.

Not to be stored in gangways or stair wells.

Store product closed and only in original packing.

Store at room temperature.

Store in a dry place.

### 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 |      |
| Workers / employees              | Human - inhalation                         | Short term, systemic effects | DNEL       | 5,39   | mg/m3 |      |
| 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/m3      |      |
| 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/m3      |      |

### 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/m3 |      |
| Workers / employees | Human - inhalation                         | Long term, local effects | DNEL       | 1        | mg/m3 |      |

## 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.

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:

Normally not necessary.

Skin protection - Hand protection:

Normally not necessary.

Skin protection - Other:

Normally not necessary.

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:

Impregnated cloth. Active substance: Liquid.

Colour:

Light yellow, Clear

Odour:

Slightly, Aromatic

Odour threshold:

Not determined

|  |                            |
|--|----------------------------|
| pH-value:                                | 6- 8                       |
| Melting point/freezing point:            | Not determined             |
| Initial boiling point and boiling range: | Not determined             |
| Flash point:                             | Not determined             |
| Evaporation rate:                        | Not determined             |
| Flammability (solid, gas):               | n.a.                       |
| Lower explosive limit:                   | Not determined             |
| Upper explosive limit:                   | Not determined             |
| Vapour pressure:                         | Not determined             |
| Vapour density (air = 1):                | Not determined             |
| Density:                                 | 0,9 - 1 g/ml (20°C)        |
| Bulk density:                            | Does not apply to liquids. |
| Solubility(ies):                         | Not determined             |
| Water solubility:                        | Mixable                    |
| Partition coefficient (n-octanol/water): | Not determined             |
| Auto-ignition temperature:               | Not determined             |
| Decomposition temperature:               | Not determined             |
| Viscosity:                               | Not determined             |
| Explosive properties:                    | Product is not explosive.  |
| Oxidising properties:                    | No                         |
| <b>9.2 Other information</b>             |                            |
| 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).

#### Elix® Clean Desinfizierende Reinigungstücher

| 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. |

| <b>Didecyldimethylammonium chloride</b> |                 |              |             |                        |   |  |
|---|-----------------|--------------|-------------|------------------------|---|--|
| <b>Toxicity / effect</b>                | <b>Endpoint</b> | <b>Value</b> | <b>Unit</b> | <b>Organism</b>        | <b>Test method</b>  | <b>Notes</b>   |
| 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  |
| 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   |
| 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 |

| <b>Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides</b> |                 |              |             |                        |  |                                    |
|--|-----------------|--------------|-------------|------------------------|--|------------------------------------|
| <b>Toxicity / effect</b>   | <b>Endpoint</b> | <b>Value</b> | <b>Unit</b> | <b>Organism</b>        | <b>Test method</b>                                       | <b>Notes</b>                       |
| 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)             | Corrosive<br>Exposition time: 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                                 |

| <b>Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides</b> |  |  |  |  |  |  |
|--|--|--|--|--|--|--|
|--|--|--|--|--|--|--|

| 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

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

| Elix® Clean Desinfizierende Reinigungstücher |          |      |       |      |          |             |        |
|--|----------|------|-------|------|----------|-------------|--------|
| 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. |

| 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)) |  |
|-----------------------|------|----|----|------|------------------|--|--|

**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[(ethylphenyl)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 |  |                       |

## 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 99 wastes not otherwise specified

15 02 02 absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by hazardous substances

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.

15 01 02 plastic packaging

Recycling

## 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.

Hazard identification number:

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

Page 11 of 13  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 12.02.2021 / 0002  
 Replacing version dated / version: 14.05.2020 / 0001  
 Valid from: 12.02.2021  
 PDF print date: 12.02.2021  
 Elix® Clean Desinfizierende Reinigungstücher

Observe restrictions:  
 Comply with trade association/occupational health regulations.

Directive 2010/75/EU (VOC): ~ 0,15 %

**REGULATION (EC) No 648/2004**  
 disinfectants

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

0,24 g/100g

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

0,24 g/100 g

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

0,24 g/100 g

Type of mixture:

Ready for use towelettes

The uses:

Disinfection

Registration number BAuA (Federal Institute for Occupational Health and Safety, Germany): baua:Reg.-Nr. N-87539

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: 3, 9, 15

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)

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

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Elix® Clean Desinfizierende Reinigungstücher

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not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

No responsibility.

These statements were made by:

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