

Elix® Clean Desinfizierende Reinigungstücher

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

1.1 - Product identifier

Trade name/designation Elix® Clean Desinfizierende Reinigungstücher

Chemical name

Product-type Mixture

Product code 483.070

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

Relevant identified uses

- Biocidal product
- Disinfectant

1.3 - Details of the supplier of the safety data sheet

ECS Cleaning Solutions GmbH
Wolfener Str. 32-34
D-12681 Berlin Germany
Telephone : +49 (0)30 / 36 46 40 36
gunnar.kleinmann@ecsag.com

Distributor

ECS AG
Talstrasse 35-37
8808 Pfaffikon
Switzerland
gunnar.kleinmann@ecsag.com
+41 (0)44 / 787 53 53

1.4 - Emergency telephone number

Verwenden Sie Ihre nationale oder lokale Notrufnummer (Deutschland)
Tel. No.: +49(0)30-19240.
Schweizerisches Toxikologisches Informationszentrum (Schweiz)/ Centro svizzero di informazione tossicologica (Svizzera)/ Centre Suisse d'Information Toxicologique (Suisse)
Tel. No.: +41 44 251 51 51
Tox Info Suisse Notrufnummer: 145 (24 Stunden)/ Numero di emergenza Tox Info Suisse: 145 (24 ore)/ Tox Info Suisse Numéro d'urgence: 145 (24h/24)
Giftnotrufzentrale (Österreich)
Tel. No.: +43 1 406 4343

SECTION 2: Hazards identification

2.1 - Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Aquatic Chronic 3	Hazardous to the aquatic environment - Aquatic Chronic 3
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2.2 - Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Contains: didecyldimethylammonium chloride | Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides | Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides

Signal word : None

Pictograms : None

Hazard statements

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H412	Harmful to aquatic life with long lasting effects
Precautionary statements	
P102	Keep out of reach of children.
P273	Avoid release to the environment.
P501	Dispose of contents/container to an appropriate recycling or disposal facility in accordance with local/regional/national/international regulation.
EUH-phrases	: None

Regulation (EC) No. 648/2004 (Detergents regulation)

Contains:

- less than 5%: cationic surfactants

2.3 - Other hazards

PBT-substance. - This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

vPvB-substance. - This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

SECTION 3: Composition / information on ingredients

3.1 - Substances

Not applicable

3.2 - Mixtures

Chemical name	No.	%	Class(es)	Specific concentration limit
didecyldimethylammonium chloride INCI: DIDECYLDIMONIUM CHLORIDE	CAS No. : 7173-51-5 Index No. : 612-131-00-6 EC No. : 230-525-2	0.24	Acute Tox. 4 Oral - H302 Skin Corr. 1B - H314	Not applicable
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides INCI: BENZALKONIUM CHLORIDE	CAS No. : 68424-85-1 Index No. : EC No. : 270-325-2	0.24	Acute Tox. 4 Oral - H302 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410 Eye Dam. 1 - H318 Skin Corr. 1B - H314	M-factor: 10 / 1
Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides	CAS No. : 85409-23-0 Index No. : EC No. : 287-090-7	0.24	Acute Tox. 4 Oral - H302 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410 Eye Dam. 1 - H318 Skin Corr. 1B - H314	M-factor: 10 / 1

SECTION 4: First aid measures

4.1 - Description of first aid measures

Following inhalation - Provide fresh air.
- When in doubt or if symptoms are observed, get medical advice.

Following skin contact - Wash immediately with: Water
- When in doubt or if symptoms are observed, get medical advice.

After eye contact - Rinse immediately carefully and thoroughly with eye-bath or water.
- Remove contact lenses, if present and easy to do. Continue rinsing.

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- In case of eye irritation consult an ophthalmologist.

After ingestion

- Rinse mouth thoroughly with water.
- Do NOT induce vomiting.
- When in doubt or if symptoms are observed, get medical advice.

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

Symptoms and effects - Following inhalation

- No information available.

Symptoms and effects - Following skin contact

- No information available.

Symptoms and effects - After eye contact

- No information available.

Symptoms and effects - After ingestion

- No information available.

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

- Treat symptomatically.
- In case an intoxication is suspected, National Poisons Information Centre should be addressed immediately, number of Emergency telephone see in section 1.4.

SECTION 5: Firefighting measures

5.1 - Extinguishing media

Suitable extinguishing media

- ABC-powder
- Carbon dioxide (CO₂)
- Foam
- Extinguishing powder

Unsuitable extinguishing media

- Full water jet

5.2 - Special hazards arising from the substance or mixture

Special hazards arising from the substance or mixture

- No information available.

Hazardous decomposition products

- Carbon dioxide (CO₂)
- Carbon monoxide
- Nitrogen oxides (NO_x)
- Hydrogen chloride (HCl)

5.3 - Advice for firefighters

- Do not allow run-off from fire-fighting to enter drains or water courses.
- In case of fire and/or explosion do not breathe fumes.

SECTION 6: Accidental release measures

6.1 - Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

- Use personal protection equipment.

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- Provide adequate ventilation.
- Avoid contact with skin, eyes and clothes.

For emergency responders - No information available.

6.2 - Environmental precautions

- Do not allow to enter into surface water or drains.

6.3 - Methods and material for containment and cleaning up

Methods and material for containment - No information available.

Methods and material for cleaning up - Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).
- Wash with plenty of water.

Inappropriate techniques - No information available.

6.4 - Reference to other sections

- Personal protection equipment: see section 8
- Disposal: see section 13

SECTION 7: Handling and storage

7.1 - Precautions for safe handling

Recommendation - Avoid exposure - obtain special instructions before use.
- Avoid: Eye contact

Advices on general occupational hygiene - Avoid contact with skin, eyes and clothes.
- Wash hands and face before breaks and after work and take a shower if necessary.
- Wash hands before breaks and after work.

7.2 - Conditions for safe storage, including any incompatibilities

- Store in a dry place. Store in a closed container.
- Keep/Store only in original container.

7.3 - Specific end use(s)

- Biocidal product
- Follow the instructions for use on the label.

SECTION 8: Exposure controls/personal protection

8.1 - Control parameters

DNEL / PNEC

didecyldimethylammonium chloride (7173-51-5)			
Type	Value	User	Effect
DNEL acute inhalative	5.39 mg/m ³	Consumers	Systemic
DNEL long-term inhalative	5.39 mg/m ³	Consumers	Systemic

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DNEL acute dermal, short-term	1.55 mg/kg	Consumers	Systemic
DNEL long-term dermal	1.55 mg/kg bw/day	Consumers	Systemic
PNEC aquatic, freshwater	0.002 mg/l		
PNEC aquatic, marine water	0.0002 mg/l		
PNEC sediment, freshwater	2.82 mg/kg		
PNEC sediment, marine water	0.28 mg/kg		
PNEC soil	1.4 mg/kg		
PNEC sewage treatment plant (STP)	0.595 mg/l		

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (68424-85-1)			
Type	Value	User	Effect
DNEL acute inhalative	3.96 mg/m³	Workers	Systemic
DNEL acute inhalative	1.64 mg/m³	Consumers	Systemic
DNEL long-term dermal	3.4 mg/kg bw/day	Consumers	Systemic
DNEL long-term dermal	5.7 mg/kg bw/day	Workers	Systemic
PNEC aquatic, freshwater	0.001 mg/l		
PNEC aquatic, marine water	0.001 mg/l		
PNEC sediment, freshwater	12.27 mg/kg		
PNEC sediment, marine water	13.09 mg/kg		
PNEC soil	7 mg/kg		
PNEC sewage treatment plant (STP)	0.4 mg/l		

Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides (85409-23-0)			
Type	Value	User	Effect
DNEL long-term inhalative	1 mg/m³	Consumers	Local
DNEL long-term inhalative	1 mg/m³	Workers	Local
PNEC aquatic, freshwater	0.000415 mg/l		
PNEC aquatic, marine water	4.2E-05 mg/l		
PNEC sediment, freshwater	6.81 mg/kg		
PNEC sediment, marine water	0.681 mg/kg		
PNEC soil	1.36 mg/kg		
PNEC sewage treatment plant (STP)	0.21 mg/l		

8.2 - Exposure controls

Appropriate engineering controls

- Provide adequate ventilation.
- Technical measures and the application of suitable work processes have priority over personal protection equipment.

Individual protection measures, such as personal protective equipment

- Eye protection: not required.
- Hand protection is not required.
- In case of prolonged or frequently repeated skin contact:
 - Protective gloves according to EN374
 - Suitable material: FKM (fluoro rubber)

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- Suitable material: NBR (Nitrile rubber)
- Suitable material: NR (natural rubber, natural latex)
- Suitable material: PVC (Polyvinyl chloride)
- Suitable material: CR (polychloroprene, chloroprene rubber)
- Breakthrough time: > 480 min.

Environmental exposure controls - No information available.

SECTION 9: Physical and chemical properties

9.1 - Information on basic physical and chemical properties

<u>Physical state</u>	Liquid	<u>Appearance</u>	Liquid
<u>Colour</u>	light yellow	<u>Odour</u>	characteristic
Odour threshold	No data available		
pH	6 < V < 8		
Melting point	No data available		
Freezing point	-10 °C		
Boiling point	100 °C		
Flash point	No data available		
Evaporation rate	No data available		
flammability	No data available		
Lower explosion limit	No data available		
Upper explosion limit	No data available		
Vapour pressure	No data available		
Vapour density	No data available		
Relative density	No data available		
Density	0.993 kg/l < V < 1.005 kg/l		
Solubility (Water)	very soluble		
Solubility (Ethanol)	No data available		
Solubility (Acetone)	No data available		
Solubility (Organic solvents)	No data available		
Log KOC	No data available		
Auto-ignition temperature	No data available		
Decomposition temperature	No data available		
Kinematic viscosity	No data available		
Dynamic viscosity	9 mPa.s		
<u>Particle characteristics</u>			
Particle size	No data available		

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Dustiness	No data available
Specific surface area	No data available
Shape	No data available

9.2 - Other information

VOC content	0.105 %
Minimum ignition energy	No data available
Conductivity	No data available
Refractive index	No data available
Solids content	No data available
Surface tension	No data available
Saturation concentration	No data available

SECTION 10: Stability and reactivity

10.1 - Reactivity

- This material is considered to be non-reactive under normal use conditions.

10.2 - Chemical stability

- The product is chemically stable under recommended conditions of storage, use and temperature.

10.3 - Possibility of hazardous reactions

- No hazardous reaction when handled and stored according to provisions.

10.4 - Conditions to avoid

- No information available.

10.5 - Incompatible materials

- No information available.

10.6 - Hazardous decomposition products

- Does not decompose when used for intended uses.

SECTION 11: Toxicological information

11.1 - Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity - Based on available data, the classification criteria are not met.

Toxicity : Mixture

LD50 oral (rat)	No data available
LD50 dermal (rat)	No data available
LD50 dermal (rabbit)	No data available
LC50 inhalation (rat)	No data available
LC50 inhalation dusts and mists (rat)	No data available
LC50 inhalation vapours (rat)	No data available

Toxicity : Substances

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didecyldimethylammonium chloride (7173-51-5)	
LD50 oral (rat)	238 mg/kg
LD50 dermal (rabbit)	3342 mg/kg
Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides (85409-23-0)	
LD50 oral (rat)	344 mg/kg
LD50 dermal (rabbit)	2300 mg/kg

Skin corrosion/irritation - Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation - Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation - Based on available data, the classification criteria are not met.

Germ cell mutagenicity - Based on available data, the classification criteria are not met.

Carcinogenicity - Based on available data, the classification criteria are not met.

Reproductive toxicity - Based on available data, the classification criteria are not met.

STOT-single exposure - Based on available data, the classification criteria are not met.

STOT-repeated exposure - Based on available data, the classification criteria are not met.

Aspiration hazard - Based on available data, the classification criteria are not met.

11.2 - Information on other hazards

- This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

SECTION 12: Ecological information

12.1 - Toxicity

Toxicity : Mixture

EC50 48 hr crustacea	No data available
LC50 96 hr fish	No data available
ErC50 algae	No data available
ErC50 other aquatic plants	No data available
NOEC chronic fish	No data available
NOEC chronic crustacea	No data available
NOEC chronic algae	No data available
NOEC chronic other aquatic plants	No data available

- Harmful to aquatic life with long lasting effects.

Toxicity : Substances

didecyldimethylammonium chloride (7173-51-5)	
EC50 48 hr crustacea	0.062 mg/l
LC50 96 hr fish	0.19 mg/l
ErC50 algae	0.026 mg/l
ErC50 other aquatic plants	11 mg/l

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NOEC chronic fish	0.032 mg/l
NOEC chronic crustacea	0.014 mg/l
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (68424-85-1)	
EC50 48 hr crustacea	0.00415 mg/l < V < 0.016 mg/l
LC50 96 hr fish	0.0322 mg/l < V < 0.515 mg/l
ErC50 algae	0.049 mg/l
Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides (85409-23-0)	
EC50 48 hr crustacea	> 0.0415 mg/l

12.2 - Persistence and degradability

Mixture

Biochemical oxygen demand (BOD)	No data available
Chemical oxygen demand (COD)	No data available
% of biodegradation in 28 days	No data available

- No information available.

Substances

didecyldimethylammonium chloride (7173-51-5)	
% of biodegradation in 28 days	72 %
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (68424-85-1)	
% of biodegradation in 28 days	95.5 %
Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides (85409-23-0)	
% of biodegradation in 28 days	95.5 %

12.3 - Bioaccumulative potential

Mixture

Bioconcentration factor (BCF)	No data available
Log KOC	No data available

- No indication of bioaccumulation potential.

Substances

didecyldimethylammonium chloride (7173-51-5)	
Bioconcentration factor (BCF)	81
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (68424-85-1)	
Bioconcentration factor (BCF)	79

12.4 - Mobility in soil

- No information available.

12.5 - Results of PBT and vPvB assessment

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- This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

- This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

12.6 - Endocrine disrupting properties

- This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7 - Other adverse effects

- No information available.

SECTION 13: Disposal considerations

13.1 - Waste treatment methods

<u>Waste treatment methods</u>	- Dispose of waste according to applicable legislation. - Plastic packaging - Completely emptied packages can be recycled. - Dispose of empty or partially emptied packaging/container/can after appropriate use of the product to municipal waste.
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<u>Sewage disposal</u>	- No information available.
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<u>Special precautions for waste treatment</u>	- No information available.
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<u>Community or national or regional provisions</u>	- No information available.
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<u>Waste codes / waste designations according to Regulation 2014/955/UE</u>	15 02 02* - absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by hazardous substances 07 06 99 - wastes not otherwise specified
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SECTION 14: Transport information

14.1 - UN number or ID number

Not applicable

14.2 - UN proper shipping name

Not applicable

14.3 - Transport hazard class(es)

Not applicable

14.4 - Packing group

Not applicable

14.5 - Environmental hazards

Not applicable

14.6 - Special precautions for user

Not applicable

14.7 - Maritime transport in bulk according to IMO instruments

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Not applicable

SECTION 15: Regulatory information

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

Substances REACH candidates None

Substances Annex XIV None

Substances Annex XVII None

VOC content 0.105 %

- Regulation (EU) No 528/2012 (Biocidal products)
- Reg.-Nr. N-87539
- Council Directive 93/42/EEC on Medical Devices (MDD) (1993).
- Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work
- Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).
- Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)
- – COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No. 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (OJ L 203, 26.6.2020, p. 28–58);
- – REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents (OJ L 104/1, 8.4.2004, p.001-0035);

Community safety, health and environmental provisions, national laws The identity of every active substance and its concentration in metric units:
Didecyldimethylammonium chloride
0,24 g/100 g
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.

Regulation (EC) No. 648/2004 (Detergents regulation)

Contains:

- less than 5%: cationic surfactants

15.2 - Chemical Safety Assessment

Chemical safety assessment carried out for the product - No information available.

SECTION 16: Other information

SDS versions

Version	Issue date	Author	Description of the amendments
4	05/02/2025		
3	01/07/2024		
2	20/09/2023		
1	02/08/2023		

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Indication of changes: Section: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16.

Abbreviations and acronyms

- ICAO: International Civil Aviation Organization
- EC50: Effective concentration of the substance that causes adverse effects in 50% of test animals.
- IATA: International Air Transport Association.
- DNEL: Derived no-effect level.
- LOEC: Lowest Observed Effect Concentration.
- LOEL: Lowest Observed Adverse Effect Level.
- EC No: European Community number
- IMDG: International Maritime Dangerous Goods.
- CAS No.: Chemical Abstracts Service number.
- NOEC: No Observed Effect Concentration.
- NOEL: No observable effect level.
- OEL: Occupational exposure limit.
- LC50: Lethal Concentration to 50 % of a test animals.
- PBT: Persistent, Bioaccumulative and Toxic.
- ADR: The Agreement concerning the International Carriage of Dangerous Goods by Road
- PNEC: Predicted no-effect concentration.
- RID: International Carriage of Dangerous Goods by Rail.
- STEL: Short-term exposure limit
- ATE: Acute Toxicity Estimate.
- TWA: Time weighted average
- LD50: Lethal Dose to 50% of a test animals.
- vPvB: very Persistent and very Bioaccumulative.

Data sources:

European Chemicals Agency (ECHA)
European Chemicals Bureau (ECB)
International Laboratories Organization (ILO)

Texts of the regulatory sentences

Acute Tox. 4 Oral	Acute toxicity (oral) - Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Aquatic Acute 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Aquatic Chronic 1
Aquatic Chronic 3	Hazardous to the aquatic environment - Aquatic Chronic 3
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation - Category 2
Flam. Liq. 2	Flammable liquid and vapour. - Category 2
H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects
Skin Corr. 1B	Skin corrosion, Category 1B
STOT SE 3	STOT-single exposure - Category 3 (H336)

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The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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