

Page 1 of 22  
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
Revision date / version: 07.06.2023 / 0011  
Replacing version dated / version: 31.05.2023 / 0010  
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NOVICIDE

## 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

**NOVICIDE**  
**UFI: D000-50S9-X00V-UXM0**

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

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

Disinfectant  
Biocide

##### Uses advised against:

No information available at present.

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

Novicide GmbH  
Am Sägewerk 1a  
85107 Baar-Ebenhausen  
Deutschland  
Tel.: ++49 (0)8453-33 45 940  
Fax: ++49 (0)8453-33 21 60  
www.novicide.de  
info@novicide.de

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:

IRL

National Poisons Information Centre, Beaumont Hospital, Dublin 9, Ireland, Tel.:  
+353 (0)1 809 2166 (Public Poisons Info Line, 8am-10pm, 7 days a week)  
+353 (0)1 809 2566 (Info for Healthcare Professionals ONLY, 24 h, 7 days a week)

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

++49 (0)172-88 62 305

### 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
Eye Dam.	1	H318-Causes serious eye damage.
Aquatic Acute	1	H400-Very toxic to aquatic life.
Aquatic Chronic	3	H412-Harmful to aquatic life with long lasting effects.
Skin Corr.	1	H314-Causes severe skin burns and eye damage.

#### 2.2 Label elements

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



Danger

H400-Very toxic to aquatic life. H412-Harmful to aquatic life with long lasting effects. H314-Causes severe skin burns and eye damage.

P273-Avoid release to the environment. P280-Wear protective gloves / protective clothing / eye protection / face protection. P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310-Immediately call a POISON CENTER / doctor.

Ethanolamine  
Didecyldimethylammonium chloride

### 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 %).

The mixture does not contain any substance with endocrine disrupting properties (< 0,1 %).

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

n.a.

### 3.2 Mixtures

<b>Ethanolamine</b>	<b>Substance for which an EU exposure limit value applies.</b>
<b>Registration number (REACH)</b>	01-2119486455-28-XXXX
<b>Index</b>	603-030-00-8
<b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>	205-483-3
<b>CAS</b>	141-43-5
<b>content %</b>	5-10
<b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b>	Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412
<b>Specific Concentration Limits and ATE</b>	STOT SE 3, H335: >=5 %
<b>Potassium carbonate</b>	
<b>Registration number (REACH)</b>	01-2119532646-36-XXXX
<b>Index</b>	---
<b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>	209-529-3
<b>CAS</b>	584-08-7
<b>content %</b>	1-10

Page 3 of 22  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 07.06.2023 / 0011  
 Replacing version dated / version: 31.05.2023 / 0010  
 Valid from: 07.06.2023  
 PDF print date: 07.06.2023  
 NOVICIDE

<b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b>	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
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<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>	6,93-7,128
<b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b>	Acute Tox. 3, H301 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 2, H411

<b>Propan-2-ol</b>	
<b>Registration number (REACH)</b>	01-2119457558-25-XXXX
<b>Index</b>	603-117-00-0
<b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>	200-661-7
<b>CAS</b>	67-63-0
<b>content %</b>	1-2,5
<b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b>	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336

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**

Remove person from danger area.  
 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.  
 Cauterizations not treated lead to wounds difficult to heal.

**Eye contact**

Remove contact lenses.  
 Wash thoroughly for several minutes using copious water - call doctor immediately, have Data Sheet available.  
 Protect uninjured eye.  
 Follow-up examination by an ophthalmologist.

**Ingestion**

Rinse the mouth thoroughly with water.  
 Do not induce vomiting - 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**

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

Revision date / version: 07.06.2023 / 0011

Replacing version dated / version: 31.05.2023 / 0010

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PDF print date: 07.06.2023

NOVICIDE

## 5.1 Extinguishing media

### Suitable extinguishing media

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

For personal protective equipment see Section 8.

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.

Cool container at risk with water.

Dispose of contaminated extinction water according to official regulations.

## SECTION 6: Accidental release measures

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

#### 6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination.

Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

Leave the danger zone if possible, use existing emergency plans if necessary.

Keep unprotected persons away.

Avoid contact with eyes or skin.

If applicable, caution - risk of slipping.

#### 6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

### 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.

Fill the absorbed material into lockable containers.

### 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

Ensure good ventilation.

Avoid contact with eyes or skin.

Handle and open container with care.

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.

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

Revision date / version: 07.06.2023 / 0011

Replacing version dated / version: 31.05.2023 / 0010

Valid from: 07.06.2023

PDF print date: 07.06.2023

NOVICIDE

## 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.

Do not store with acids.

Do not use alkali sensitive materials.

Protect from direct sunlight and warming.

Store in a well-ventilated place.

Store in a dry place.

Store cool.

## 7.3 Specific end use(s)

No information available at present.

Observe the instructions for good working practice and the recommendations for risk assessment.

Consult hazardous substance information systems, e.g. from the professional associations, the chemical industry or different industries,

depending on the application (building materials, wood, chemistry, laboratory, leather, metal).

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Chemical Name	Ethanolamine		
WEL-TWA: 1 ppm (2,5 mg/m <sup>3</sup> ) (WEL-TWA, EU)	WEL-STEL: 3 ppm (7,6 mg/m <sup>3</sup> ) (WEL-STEL, EU)	---	
Monitoring procedures:	<ul style="list-style-type: none"> <li>- Compur - KITA-224 SA (548 634)</li> <li>- NIOSH 2007 (Aminoethanol compounds) - 1994</li> <li>- NIOSH 3509 (Aminoethanol COMPOUNDS II) - 1994</li> <li>- OSHA PV2111 (Ethanolamine) - 1988 - EU project BC/CEN/ENTR/000/2002-16 card 49-5 (2004)</li> </ul>		
BMGV: ---	Other information: Sk (WEL, EU)		

Chemical Name	Ethanolamine		
OELV-8h: 1 ppm (2,5 mg/m <sup>3</sup> ) (OELV-8h, EU)	OELV-15min: 3 ppm (7,6 mg/m <sup>3</sup> ) (OELV-15min, EU)	---	
Monitoring procedures:	<ul style="list-style-type: none"> <li>- Compur - KITA-224 SA (548 634)</li> <li>- NIOSH 2007 (Aminoethanol compounds) - 1994</li> <li>- NIOSH 3509 (Aminoethanol COMPOUNDS II) - 1994</li> <li>- OSHA PV2111 (Ethanolamine) - 1988 - EU project BC/CEN/ENTR/000/2002-16 card 49-5 (2004)</li> </ul>		
BLV: ---	Other information: Sk (IOELV, EU)		

Chemical Name	Ethanolamine		
OELV-8h: 1 ppm (2,5 mg/m <sup>3</sup> ) (OELV-8h, UE)	OELV-ST: 3 ppm (7,6 mg/m <sup>3</sup> ) (OELV-ST, UE)	---	
Monitoring procedures:	<ul style="list-style-type: none"> <li>- Compur - KITA-224 SA (548 634)</li> <li>- NIOSH 2007 (Aminoethanol compounds) - 1994</li> <li>- NIOSH 3509 (Aminoethanol COMPOUNDS II) - 1994</li> <li>- OSHA PV2111 (Ethanolamine) - 1988 - EU project BC/CEN/ENTR/000/2002-16 card 49-5 (2004)</li> </ul>		
BMGV: ---	Other information: Skin		

Chemical Name	Propan-2-ol		
WEL-TWA: 400 ppm (999 mg/m <sup>3</sup> )	WEL-STEL: 500 ppm (1250 mg/m <sup>3</sup> )	---	
Monitoring procedures:	<ul style="list-style-type: none"> <li>- Draeger - Alcohol 25/a i-Propanol (81 01 631)</li> <li>- Compur - KITA-122 SA(C) (549 277)</li> <li>- Compur - KITA-150 U (550 382)</li> <li>- DFG (D) (Lösungsmittelgemische), DFG (E) (Solvent mixtures 6) - 2013, 2002 - EU project BC/CEN/ENTR/000/2002-16 card 66-3 (2004)</li> </ul>		

Page 6 of 22  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 07.06.2023 / 0011  
 Replacing version dated / version: 31.05.2023 / 0010  
 Valid from: 07.06.2023  
 PDF print date: 07.06.2023  
 NOVICIDE

- NIOSH 1400 (ALCOHOLS I) - 1994
- NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996
- Draeger - Alcohol 100/a (CH 29 701)

BMGV: ---

Other information: ---

Chemical Name		Propan-2-ol	
OELV-8h: 200 ppm	OELV-15min: 400 ppm	---	
Monitoring procedures:	<ul style="list-style-type: none"> <li>- Draeger - Alcohol 25/a i-Propanol (81 01 631)</li> <li>- Compur - KITA-122 SA(C) (549 277)</li> <li>- Compur - KITA-150 U (550 382)</li> <li>- DFG (D) (Lösungsmittelgemische), DFG (E) (Solvent mixtures 6) - 2013, 2002 - EU project BC/CEN/ENTR/000/2002-16 card 66-3 (2004)</li> <li>- NIOSH 1400 (ALCOHOLS I) - 1994</li> <li>- NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996</li> <li>- Draeger - Alcohol 100/a (CH 29 701)</li> </ul>		
BLV: 40 mg/l (acetone, U, d) (ACGIH-BEI)	Other information: Sk		

Ethanolamine						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	0,07	mg/l	
	Environment - marine		PNEC	0,007	mg/l	
	Environment - periodic release		PNEC	0,028	mg/l	
	Environment - sediment, freshwater		PNEC	0,357	mg/kg dry weight	
	Environment - sediment, marine		PNEC	0,0357	mg/kg dry weight	
	Environment - soil		PNEC	1,29	mg/kg dry weight	
	Environment - sewage treatment plant		PNEC	100	mg/l	
Consumer	Human - dermal	Long term, systemic effects	DNEL	1,5	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	0,18	mg/m3	
Consumer	Human - inhalation	Long term, local effects	DNEL	0,28	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	1,5	mg/kg bw/day	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	3	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	1	mg/m3	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	0,51	mg/m3	

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	



Page 7 of 22  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 07.06.2023 / 0011  
 Replacing version dated / version: 31.05.2023 / 0010  
 Valid from: 07.06.2023  
 PDF print date: 07.06.2023  
 NOVICIDE

	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	

Propan-2-ol						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	140,9	mg/l	
	Environment - marine		PNEC	140,9	mg/l	
	Environment - sediment, freshwater		PNEC	552	mg/kg dw	
	Environment - sediment, marine		PNEC	552	mg/kg dw	
	Environment - soil		PNEC	28	mg/kg dw	
	Environment - sewage treatment plant		PNEC	2251	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	140,9	mg/l	
	Environment - oral (animal feed)		PNEC	160	mg/kg feed	
Consumer	Human - dermal	Long term, systemic effects	DNEL	319	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	89	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	26	mg/kg bw/day	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	888	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	500	mg/m3	

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).  
 (8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).  
 (8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.  
 \*\* = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.  
 (13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

OELV-8h = Occupational Exposure Limit Value (8-hour reference period). (IFV) = Inhalable Fraction and Vapour. (I) = Inhalable Fraction. (R) = Respirable Fraction.  
 (8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding

Page 8 of 22

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

Revision date / version: 07.06.2023 / 0011

Replacing version dated / version: 31.05.2023 / 0010

Valid from: 07.06.2023

PDF print date: 07.06.2023

NOVICIDE

0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). |

OELV-15min = Occupational Exposure Limit Value (15-minute reference period). (IFV) = Inhalable Fraction and Vapour. (I) = Inhalable Fraction. (R) = Respirable Fraction.

(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU. (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). |

BLV = Biological limit value |

Other information: Carc1A, Carc1B = carcinogenic substance, Cat. 1A or 1B. Muta1A, Muta1B = mutagenic substance, Cat. 1A or 1B. Repr1A, Repr1B = Substances known to be toxic for reproduction, Cat. 1A or 1B. Sk = can be absorbed through skin. Asphx = asphyxiant. Sen = Respiratory sensitizer. BOELV = Binding Occupational Exposure Limit Values. IOELV = Indicative Occupational Exposure Limit Values.

(13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

**M** OELV-8h = Occupational Exposure Limit Value - 8 h (8-hour reference period as a time-weighted average)

[9] = Inhalable fraction (S.L.424.24), [10] = Respirable fraction (S.L.424.24).

(8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). |

OELV-ST = Occupational Exposure Limit Value - Short-term (15-minute reference period)

(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU).

[8] = Short-term exposure limit value in relation to a reference period of 1 minute. (S.L.424.24), [9] = Inhalable fraction (S.L.424.24), [10] = Respirable fraction (S.L.424.24) |

BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) |

Other information: Skin = Possibility of a significant uptake through the skin.

[11] = When selecting an appropriate exposure monitoring method, account should be taken of potential limitations and interferences that may arise in the presence of other sulphur compounds. (S.L.424.24), [12] = The mist is defined as the thoracic fraction.

(S.L.424.24), [13] = Established in accordance with the Annex to Directive 91/322/EEC. (S.L.424.24), [14] = During exposure monitoring for mercury and its divalent inorganic compounds, account should be taken of relevant biological monitoring techniques that complement the OELV. (S.L.424.24).

(EU13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (EU14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

## 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.

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.

These are specified by e.g. EN 14042.

EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

### 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:

Tight fitting protective goggles with side protection (EN 166).

If applicable

Face protection (EN 166).

Skin protection - Hand protection:

Chemical resistant protective gloves (EN ISO 374).

Recommended

Protective nitrile gloves (EN ISO 374).



Page 9 of 22  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 07.06.2023 / 0011  
 Replacing version dated / version: 31.05.2023 / 0010  
 Valid from: 07.06.2023  
 PDF print date: 07.06.2023  
 NOVICIDE

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:

If OES or MEL is exceeded.

Gas mask filter A (EN 14387), code colour brown

Observe wearing time limitations for respiratory protection equipment.

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:	Blue
Odour:	Characteristic
Melting point/freezing point:	There is no information available on this parameter.
Boiling point or initial boiling point and boiling range:	There is no information available on this parameter.
Flammability:	There is no information available on this parameter.
Lower explosion limit:	There is no information available on this parameter.
Upper explosion limit:	There is no information available on this parameter.
Flash point:	>65 °C
Auto-ignition temperature:	There is no information available on this parameter.
Decomposition temperature:	There is no information available on this parameter.
pH:	11,2 (1 %, 20°C)
pH:	12,9 (20°C)
Kinematic viscosity:	30 mPas (23°C, Brookfield, Dynamic viscosity )
Solubility:	Mixable
Partition coefficient n-octanol/water (log value):	Does not apply to mixtures.
Vapour pressure:	23 hPa
Density and/or relative density:	1,06 g/cm <sup>3</sup> (20°C)
Relative vapour density:	There is no information available on this parameter.
Particle characteristics:	Does not apply to liquids.

### 9.2 Other information

Explosives:	Product is not explosive.
Oxidising liquids:	No
Surface tension:	29 mN/m (1 %)

## SECTION 10: Stability and reactivity

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

Revision date / version: 07.06.2023 / 0011

Replacing version dated / version: 31.05.2023 / 0010

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PDF print date: 07.06.2023

NOVICIDE

## 10.1 Reactivity

The product has not been tested.

## 10.2 Chemical stability

Stable with proper storage and handling.

## 10.3 Possibility of hazardous reactions

Avoid contact with strong acids (exothermic reaction possible).

## 10.4 Conditions to avoid

None known

## 10.5 Incompatible materials

Avoid contact with strong acids.

## 10.6 Hazardous decomposition products

No decomposition when used as directed.

## SECTION 11: Toxicological information

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

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

NOVICIDE						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	ATE	>2000	mg/kg			calculated value
Acute toxicity, by dermal route:	ATE	>2000	mg/kg			calculated value
Acute toxicity, by inhalation:	ATE	>20	mg/l/4h			calculated value, Vapours
Acute toxicity, by inhalation:	ATE	>5	mg/l/4h			calculated value, Aerosol
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.

Ethanolamine						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	1089	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	2504	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	Does not conform with EU classification.
Acute toxicity, by dermal route:	LD50	1015	mg/kg	Rabbit		
Acute toxicity, by inhalation:	LC50	1,49	mg/l/4h	Rat		Vapours, Maximum achievable concentration.

Page 11 of 22  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 07.06.2023 / 0011  
 Replacing version dated / version: 31.05.2023 / 0010  
 Valid from: 07.06.2023  
 PDF print date: 07.06.2023  
 NOVICIDE

Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Skin Corr. 1B
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Eye Dam. 1
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact)
Germ cell mutagenicity:					(Ames-Test)	Negative
Germ cell mutagenicity:				Mouse	OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative
Reproductive toxicity:						Negative
Symptoms:						ataxia, respiratory distress, drowsiness, coughing, mucous membrane irritation, nausea
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	300	mg/kg bw/d	Rat		
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAEL	10	mg/m3	Rat	OECD 412 (Subacute Inhalation Toxicity - 28-Day Study)	

<b>Potassium carbonate</b>						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Rat		
Skin corrosion/irritation:						Irritant
Serious eye damage/irritation:						Irritant
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Not sensitizing
Symptoms:						respiratory distress, coughing, mucous membrane irritation, nausea and vomiting.
Specific target organ toxicity - single exposure (STOT-SE), inhalative:						Irritation of the respiratory tract

<b>Didcyldimethylammonium chloride</b>						
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 12 of 22  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 07.06.2023 / 0011  
 Replacing version dated / version: 31.05.2023 / 0010  
 Valid from: 07.06.2023  
 PDF print date: 07.06.2023  
 NOVICIDE

Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact)
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation 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
Germ cell mutagenicity:				Human being	OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative
Germ cell mutagenicity:				Mouse	OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative
Symptoms:						blisters by skin-contact, cornea opacity, coughing, collapse, cramps, pain in the ribcage, watering eyes

Propan-2-ol						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	4570-5840	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	12800-13900	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	> 25	mg/l/6h	Rat	OECD 403 (Acute Inhalation Toxicity)	Vapours
Acute toxicity, by inhalation:	LC50	46600	mg/l/4h	Rat		Aerosol
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Eye Irrit. 2
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact)
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative
Germ cell mutagenicity:					OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative
Germ cell mutagenicity:				Salmonella typhimurium	(Ames-Test)	Negative
Carcinogenicity:						Negative

Page 13 of 22  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 07.06.2023 / 0011  
 Replacing version dated / version: 31.05.2023 / 0010  
 Valid from: 07.06.2023  
 PDF print date: 07.06.2023  
 NOVICIDE

Specific target organ toxicity - single exposure (STOT-SE):						STOT SE 3, H336, May cause drowsiness or dizziness.
Specific target organ toxicity - repeated exposure (STOT-RE):						Target organ(s): liver
Aspiration hazard:						No
Symptoms:						breathing difficulties, unconsciousness, vomiting, headaches, fatigue, dizziness, nausea, eyes, reddened, watering eyes
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	900	mg/kg	Rat	OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAEL	5000	ppm	Rat		Vapours (OECD 451)

## 11.2. Information on other hazards

NOVICIDE						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Other information:						Not irritant (respiratory tract)., Expert judgement
Endocrine disrupting properties:						Does not apply to mixtures.

## SECTION 12: Ecological information

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

NOVICIDE							
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. Endocrine disrupting properties:							Does not apply to mixtures.
12.7. Other adverse effects:							No information available on other adverse effects on the environment.

Page 14 of 22  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 07.06.2023 / 0011  
 Replacing version dated / version: 31.05.2023 / 0010  
 Valid from: 07.06.2023  
 PDF print date: 07.06.2023  
 NOVICIDE

Other information:							<p>The surfactant(s) contained in this mixture complies (comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.</p>
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Ethanolamine							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	170	mg/l	Carassius auratus		
12.1. Toxicity to fish:	NOEC/NOEL	42d	1,2	mg/l	Oryzias latipes	OECD 210 (Fish, Early-Life Stage Toxicity Test)	
12.1. Toxicity to fish:	LC50	96h	349	mg/l	Cyprinus caprio	92/69/EC	
12.1. Toxicity to fish:	NOEC/NOEL	30d	1,2	mg/l	Oryzias latipes	OECD 210 (Fish, Early-Life Stage Toxicity Test)	
12.1. Toxicity to fish:	LC50	96h	105	mg/l	Oncorhynchus mykiss		
12.1. Toxicity to daphnia:	EC50	48h	27,34	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	0,85	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	
12.1. Toxicity to algae:	EC50	72h	2,5	mg/l	Selenastrum capricornutum	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	NOAEC	72h	1	mg/l	Selenastrum capricornutum	OECD 201 (Alga, Growth Inhibition Test)	



Page 15 of 22  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 07.06.2023 / 0011  
 Replacing version dated / version: 31.05.2023 / 0010  
 Valid from: 07.06.2023  
 PDF print date: 07.06.2023  
 NOVICIDE

12.1. Toxicity to algae:	EC50	72h	22	mg/l	Scenedesmus subspicatus	Regulation (EC) 440/2008 C.3 (FRESHWATER ALGAE AND CYANOBACTERIA, GROWTH INHIBITION TEST)	
12.2. Persistence and degradability:	DOC	21d	> 90	%	activated sludge	OECD 301 A (Ready Biodegradability - DOC Die-Away Test)	Readily biodegradable
12.2. Persistence and degradability:		28d	96	%		OECD 301 B (Ready Biodegradability - Co2 Evolution Test)	Readily biodegradable
12.2. Persistence and degradability:		21d	>90	%		OECD 302 A (Inherent Biodegradability - Modified SCAS Test)	Readily biodegradable
12.3. Bioaccumulative potential:	BCF		< 100				Slight
12.3. Bioaccumulative potential:	Log Pow		(-2,3) - (-1,31)			OECD 107 (Partition Coefficient (n-octanol/water) - Shake Flask Method)	Slight pH 6,8 - 7,3
25 °C							
12.4. Mobility in soil:	pOC		0-50				High
12.4. Mobility in soil:	Koc		1,17				estimated
12.4. Mobility in soil:	H (Henry)		0,000037	Pa*m3/mol			estimated
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	EC50	3h	>1000	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
Toxicity to bacteria:	EC50	16h	110	mg/l	Pseudomonas putida	DIN 38412 T.8	
Toxicity to bacteria:	EC20	30min	> 1000	mg/l	activated sludge	ISO 8192	
Other organisms:	EC50	28d	2500	mg/kg dw			Folsomia candida
Other organisms:	EC50	14d	2939	mg/kg dw			Hordeum vulgare
Other organisms:	EC50	21d	1817	mg/kg dw			Elymus lanceolatus
Other organisms:	EC50	21d	1290	mg/kg dw			Medicago sativa (Alfalfa)
Other information:	BOD	5d	800	mg/g			

Page 16 of 22  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 07.06.2023 / 0011  
 Replacing version dated / version: 31.05.2023 / 0010  
 Valid from: 07.06.2023  
 PDF print date: 07.06.2023  
 NOVICIDE

Toxicity to annelids:	EC50	>60d	4033	mg/kg dw		OECD 207 (Earthworm, Acute Toxicity Tests)	Eisenia andrei
63d							

**Potassium carbonate**

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	72h	200	mg/l			
12.1. Toxicity to fish:	LC50		200	mg/l		DIN 38412 T.15	

**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 fish:	LC50	96h	~0,97	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EC50	48h	~0,057	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation 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))	

**Propan-2-ol**

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	>100	mg/l	Leuciscus idus		

Page 17 of 22  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 07.06.2023 / 0011  
 Replacing version dated / version: 31.05.2023 / 0010  
 Valid from: 07.06.2023  
 PDF print date: 07.06.2023  
 NOVICIDE

12.1. Toxicity to fish:	LC50	96h	1400	mg/l	Lepomis macrochirus		
12.1. Toxicity to daphnia:	EC50	48h	2285	mg/l	Daphnia magna		
12.1. Toxicity to daphnia:	EC50	16d	141	mg/l	Daphnia magna		
12.1. Toxicity to algae:	EC50	72h	>100	mg/l	Desmodesmus subspicatus		
12.2. Persistence and degradability:		21d	95	%		OECD 301 E (Ready Biodegradability - Modified OECD Screening Test)	Readily biodegradable
12.2. Persistence and degradability:			99,9	%		OECD 303 A (Simulation Test - Aerobic Sewage Treatment - Activated Sludge Units)	Readily biodegradable
12.3. Bioaccumulative potential:	Log Pow		0,05			OECD 107 (Partition Coefficient (n-octanol/water) - Shake Flask Method)	Slight
12.3. Bioaccumulative potential:	BCF		3,2				Low
12.4. Mobility in soil:	Koc		1,1				Expert judgement
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	EC50		>1000	mg/l	activated sludge		
Toxicity to bacteria:	EC10	16h	1050	mg/l	Pseudomonas putida		
Other organisms:	IC50	3d	2104	mg/l	Lactuca sativa		
Other information:	ThOD		2,4	g/g			
Other information:	BOD5		53	%			
Other information:	COD		96	%			References
Other information:	COD		2,4	g/g			
Other information:	BOD		1171	mg/g			

## 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 04 01 aqueous washing liquids and mother liquors

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.



Page 18 of 22  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 07.06.2023 / 0011  
 Replacing version dated / version: 31.05.2023 / 0010  
 Valid from: 07.06.2023  
 PDF print date: 07.06.2023  
 NOVICIDE

Empty container completely.  
 Untamminated 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


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

14.1. UN number or ID number:	1903	
14.2. UN proper shipping name:		
	UN 1903 DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (DIDECYLDIMETHYLAMMONIUM CHLORIDE, ETHANOLAMINE)	
14.3. Transport hazard class(es):	8	
14.4. Packing group:	II	
14.5. Environmental hazards:	environmentally hazardous	
Tunnel restriction code:	E	
Classification code:	C9	
LQ:	1 L	
Transport category:	2	

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

14.1. UN number or ID number:	1903	
14.2. UN proper shipping name:		
	UN 1903 DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (DIDECYLDIMETHYLAMMONIUM CHLORIDE, ETHANOLAMINE)	
14.3. Transport hazard class(es):	8	
14.4. Packing group:	II	
14.5. Environmental hazards:	environmentally hazardous	
Marine Pollutant:	Yes	
EmS:	F-A, S-B	

#### Transport by air (IATA)

14.1. UN number or ID number:	1903	
14.2. UN proper shipping name:		
	UN 1903 Disinfectant, liquid, corrosive, n.o.s. (DIDECYLDIMETHYLAMMONIUM CHLORIDE, ETHANOLAMINE)	
14.3. Transport hazard class(es):	8	
14.4. Packing group:	II	
14.5. Environmental hazards:	Not applicable	

#### 14.6. Special precautions for user

Persons employed in transporting dangerous goods must be trained.  
 All persons involved in transporting must observe safety regulations.  
 Precautions must be taken to prevent damage.

#### 14.7. Maritime transport in bulk according to IMO instruments

Freighted as packaged goods rather than in bulk, therefore not applicable.  
 Minimum amount regulations have not been taken into account.  
 Danger code and packing code on request.  
 Comply with special provisions.

## SECTION 15: Regulatory information

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

Observe restrictions:  
 Comply with national regulations/laws governing the protection of young people at work (national implementation of the Directive 94/33/EC)!  
 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.  
 Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)!  
 Comply with trade association/occupational health regulations.

Page 19 of 22  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 07.06.2023 / 0011  
 Replacing version dated / version: 31.05.2023 / 0010  
 Valid from: 07.06.2023  
 PDF print date: 07.06.2023  
 NOVICIDE

Directive 2012/18/EU ("Seveso III"), Annex I, Part 1 - The following categories apply to this product (others may also need to be considered according to storage, handling etc.):

Hazard categories	Notes to Annex I	Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of - Lower-tier requirements	Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of - Upper-tier requirements
E1		100	200

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities.

Directive 2010/75/EU (VOC): ~ 9,5 %

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

6,93-7,128 g/100 g

The uses:

Disinfection

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

n.d.a.

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

n.d.a.

Observe incident regulations.

National requirements/regulations on safety and health protection must be applied when using work equipment.

## 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

## SECTION 16: Other information

Revised sections: 1  
 Employee training in handling dangerous goods is required.  
 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
Eye Dam. 1, H318	Classification based on the pH value.
Aquatic Acute 1, H400	Classification according to calculation procedure.
Aquatic Chronic 3, H412	Classification according to calculation procedure.
Skin Corr. 1, H314	Classification based on the pH value.

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).

H225 Highly flammable liquid and vapour.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

Page 20 of 22  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 07.06.2023 / 0011  
 Replacing version dated / version: 31.05.2023 / 0010  
 Valid from: 07.06.2023  
 PDF print date: 07.06.2023  
 NOVICIDE

H318 Causes serious eye damage.  
 H319 Causes serious eye irritation.  
 H332 Harmful if inhaled.  
 H335 May cause respiratory irritation.  
 H336 May cause drowsiness or dizziness.  
 H400 Very toxic to aquatic life.  
 H411 Toxic to aquatic life with long lasting effects.  
 H412 Harmful to aquatic life with long lasting effects.

Eye Dam. — Serious eye damage  
 Aquatic Acute — Hazardous to the aquatic environment - acute  
 Aquatic Chronic — Hazardous to the aquatic environment - chronic  
 Skin Corr. — Skin corrosion  
 Acute Tox. — Acute toxicity - oral  
 Acute Tox. — Acute toxicity - dermal  
 Acute Tox. — Acute toxicity - inhalation  
 Skin Irrit. — Skin irritation  
 Eye Irrit. — Eye irritation  
 STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation  
 Flam. Liq. — Flammable liquid  
 STOT SE — Specific target organ toxicity - single exposure - narcotic effects

### Key literature references and sources for data:

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended.  
 Guidelines for the preparation of safety data sheets as amended (ECHA).  
 Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA).  
 Safety data sheets for the constituent substances.  
 ECHA Homepage - Information about chemicals.  
 GESTIS Substance Database (Germany).  
 German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany).  
 EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as amended.  
 National Lists of Occupational Exposure Limits for each country as amended.  
 Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.

### 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)  
 BCF Bioconcentration factor  
 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  
 DOC Dissolved organic carbon  
 dw dry weight  
 e.g. for example (abbreviation of Latin 'exempli gratia'), for instance  
 EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants)



Page 21 of 22  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 07.06.2023 / 0011  
 Replacing version dated / version: 31.05.2023 / 0010  
 Valid from: 07.06.2023  
 PDF print date: 07.06.2023  
 NOVICIDE

EC European Community  
 ECHA European Chemicals Agency  
 ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect  
 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)  
 ErCx, EµCx, ErLx (x = 10, 50) Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants)  
 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  
 Koc Adsorption coefficient of organic carbon in the soil  
 Kow octanol-water partition coefficient  
 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)  
 Log Koc Logarithm of adsorption coefficient of organic carbon in the soil  
 Log Kow, Log Pow Logarithm of octanol-water partition coefficient  
 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  
 NIOSH National Institute for Occupational Safety and Health (USA)  
 NLP No-longer-Polymer  
 NOEC, NOEL No Observed Effect Concentration/Level  
 OECD Organisation for Economic Co-operation and Development  
 org. organic  
 OSHA Occupational Safety and Health Administration (USA)  
 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  
 TOC Total organic carbon  
 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

Page 22 of 22  
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
Revision date / version: 07.06.2023 / 0011  
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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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