

# DESOFOR BACTÉRICIDE TONIC

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 1/19/2021 Version: 1.0

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

#### 1.1. Product identifier

Product form : Mixture  
Trade name : DESOFOR BACTÉRICIDE TONIC  
:  
Product code : 107681  
Type of product : Biocidal products (e.g. Disinfectants, pest control)  
Vaporizer : The mixture is used as a spray  
Product group : Trade product

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

##### 1.2.1. Relevant identified uses

Main use category : Professional use  
Use of the substance/mixture : Bactericidal odorant

##### 1.2.2. Uses advised against

No additional information available

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

##### Manufacturer

IPC  
10 Quai Malbert, 29200, BREST, FRANCE.  
Tel. : +33 (0)2 98 43 45 44. Fax : +33 (0)2 98  
44 22 53  
ipc@groupe-ipc.com

##### Manufacturer

IPC  
10 Quai Malbert, 29200, BREST, FRANCE.  
Tel. : +33 (0)2 98 43 45 44. Fax : +33 (0)2 98  
44 22 53  
ipc@groupe-ipc.com

#### 1.4. Emergency telephone number

| Country        | Organisation/Company   | Address   | Emergency number   | Comment                              |
|----------------|--|---|--|--------------------------------------|
| Ireland        | National Poisons Information Centre<br>Beaumont Hospital   | PO Box 1297<br>Beaumont Road<br>9 Dublin                            | +353 1 809 2566<br>(Healthcare professionals-<br>24/7)<br>+353 1 809 2166 (public,<br>8am - 10pm, 7/7) |                                      |
| United Kingdom | Guy's & St Thomas' Poisons Unit<br>Medical Toxicology Unit, Guy's & St<br>Thomas' Hospital Trust     | Avonley Road<br>SE14 5ER London                                     | +44 20 7188 7188   |                                      |
| United Kingdom | National Poisons Information Service<br>(Newcastle Centre)<br>Regional Drugs and Therapeutics Centre | 16/17 Framlington Place<br>Newcastle-upon-Tyne<br>NE2 4AB Newcastle | 0344 892 0111  | Only for healthcare<br>professionals |

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

Flammable liquids, Category 3 H226  
Skin corrosion/irritation, Category 2 H315  
Serious eye damage/eye irritation, Category 1 H318  
Hazardous to the aquatic environment – Acute Hazard, Category 1 H400  
Hazardous to the aquatic environment – Chronic Hazard, Category 3 H412  
Full text of H- and EUH-statements: see section 16

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### Adverse physicochemical, human health and environmental effects

Flammable liquid and vapour. Causes skin irritation. Causes serious eye damage. Very toxic to aquatic life. Harmful to aquatic life with long lasting effects.

## 2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP)

Contains

Hazard statements (CLP)

Precautionary statements (CLP)

EUH-statements

- : Danger
- : didecyldimethylammonium chloride, 2-Propylheptyl alcohol, ethoxylated (10 EO)
- : H226 - Flammable liquid and vapour.  
H315 - Causes skin irritation.  
H318 - Causes serious eye damage.  
H410 - Very toxic to aquatic life with long lasting effects.
- : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.  
No smoking.  
P280 - Wear protective gloves, protective clothing, eye protection, face protection.  
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.  
Rinse skin with water .  
P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor, a POISON CENTER.  
P332+P313 - If skin irritation occurs: Get medical advice/attention.  
P391 - Collect spillage.  
P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
- : EUH208 - Contains Linalool(78-70-6), d-Limonene(5989-27-5), EUCALYPTOL(470-82-6).  
May produce an allergic reaction.

## 2.3. Other hazards

Contains no PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

### Component

didecyldimethylammonium chloride (7173-51-5)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII  
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

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### 3.2. Mixtures

| Name   | Product identifier  | %           | Classification according to Regulation (EC) No. 1272/2008 [CLP]   |
|--|---|-------------|---|
| propan-2-ol<br>(Active substance (Biocide))                      | CAS-No.: 67-63-0<br>EC-No.: 200-661-7<br>EC Index-No.: 603-117-00-0<br>REACH-no: 01-2119457558-25   | ≥ 10 – < 20 | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336   |
| 2-Propylheptyl alcohol, ethoxylated (10 EO)                      | CAS-No.: 160875-66-1<br>EC-No.: 605-233-7   | ≥ 1 – < 5   | Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight)<br>Eye Dam. 1, H318  |
| didecyldimethylammonium chloride<br>(Active substance (Biocide)) | CAS-No.: 7173-51-5<br>EC-No.: 230-525-2<br>EC Index-No.: 612-131-00-6<br>REACH-no: 01-2119945987-15 | ≥ 1 – < 5   | Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight)<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Aquatic Acute 1, H400 (M=10)<br>Aquatic Chronic 2, H411                                    |
| 2,6-DIMETHYL-7-OCTEN-2-OL  | CAS-No.: 18479-58-8<br>EC-No.: 242-362-4  | ≥ 1 – < 5   | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319   |
| Linalool   | CAS-No.: 78-70-6<br>EC-No.: 201-134-4<br>EC Index-No.: 603-235-00-2<br>REACH-no: 01-2119474016-42   | ≥ 0.1 – < 1 | Skin Sens. 1B, H317   |
| CAMPHOR  | CAS-No.: 76-22-2<br>EC-No.: 200-945-0   | ≥ 0.1 – < 1 | Flam. Sol. 2, H228<br>Acute Tox. 4 (Oral), H302 (ATE=1310 mg/kg bodyweight)<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>STOT RE 1, H372<br>Aquatic Acute 1, H400<br>Aquatic Chronic 2, H411 |
| d-Limonene   | CAS-No.: 5989-27-5<br>EC-No.: 227-813-5<br>EC Index-No.: 601-029-00-7<br>REACH-no: 01-2119529223-47 | ≥ 0.1 – < 1 | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410   |
| EUCALYPTOL   | CAS-No.: 470-82-6<br>EC-No.: 207-431-5  | ≥ 0.1 – < 1 | Flam. Liq. 3, H226<br>Skin Sens. 1B, H317   |

Full text of H- and EUH-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                                       |  |
|---------------------------------------|--|
| First-aid measures general            | : As a general rule, in case of doubt or if symptoms persist, always call a doctor. Never give anything by mouth to an unconscious person.           |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing.   |
| First-aid measures after skin contact | : Rinse skin with water/shower. Take off immediately all contaminated clothing. If skin irritation occurs: Get medical advice/attention.             |
| First-aid measures after eye contact  | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately. |
| First-aid measures after ingestion    | : Call a poison center or a doctor if you feel unwell. Rinse mouth. Do NOT induce vomiting.  |

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

Symptoms/effects after skin contact : Irritation.  
Symptoms/effects after eye contact : Serious damage to eyes.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

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

Fire hazard : Flammable liquid and vapour.  
Hazardous decomposition products in case of fire : Toxic fumes may be released. Do not breathe in smoke.

### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment. Prevent entry into storm water systems or watercourses.

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

For containment : Collect spillage. Cover spill with non combustible material, e.g.: sand, earth, vermiculite.  
Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.  
Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only non-sparking tools. Flammable vapours may accumulate in the container. Wear personal protective equipment. Avoid contact with skin and eyes.  
Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

|                            |   |
|----------------------------|---|
| Technical measures         | : Ensure adequate ventilation, especially in confined areas.                  |
| Storage conditions         | : Store in a well-ventilated place. Keep cool. Keep container tightly closed. |
| Storage temperature        | : 5 – 35 °C   |
| Storage area               | : Store away from heat. Store in a well-ventilated place.                     |
| Special rules on packaging | : Keep only in original container. Store in a closed container.               |

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

| PROPYLENE GLYCOL (57-55-6)                           |  |
|--|--|
| <b>United Kingdom - Occupational Exposure Limits</b> |  |
| Local name   | Propane-1,2-diol   |
| WEL TWA (OEL TWA) [1]                                | 10 mg/m <sup>3</sup> particulates<br>474 mg/m <sup>3</sup> total vapour and particulates |
| WEL TWA (OEL TWA) [2]                                | 150 ppm total vapour and particulates  |
| Regulatory reference                                 | EH40/2005 (Fourth edition, 2020). HSE  |
| propan-2-ol (67-63-0)                                |  |
| <b>United Kingdom - Occupational Exposure Limits</b> |  |
| Local name   | Propan-2-ol  |
| WEL TWA (OEL TWA) [1]                                | 999 mg/m <sup>3</sup>  |
| WEL TWA (OEL TWA) [2]                                | 400 ppm  |
| WEL STEL (OEL STEL)                                  | 1250 mg/m <sup>3</sup>   |
| WEL STEL (OEL STEL) [ppm]                            | 500 ppm  |
| Regulatory reference                                 | EH40/2005 (Fourth edition, 2020). HSE  |
| CAMPHOR (76-22-2)                                    |  |
| <b>Ireland - Occupational Exposure Limits</b>        |  |
| Local name   | Bornan-2-one [Camphor, synthetic]  |
| OEL TWA [1]  | 12 mg/m <sup>3</sup>   |
| OEL TWA [2]  | 2 ppm  |
| OEL STEL   | 18 mg/m <sup>3</sup>   |
| OEL STEL [ppm]                                       | 3 ppm  |
| Regulatory reference                                 | Chemical Agents Code of Practice 2021  |
| <b>United Kingdom - Occupational Exposure Limits</b> |  |
| Local name   | Bornan-2-one   |
| WEL TWA (OEL TWA) [1]                                | 13 mg/m <sup>3</sup>   |
| WEL TWA (OEL TWA) [2]                                | 2 ppm  |
| WEL STEL (OEL STEL)                                  | 19 mg/m <sup>3</sup>   |
| WEL STEL (OEL STEL) [ppm]                            | 3 ppm  |

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### CAMPHOR (76-22-2)

Regulatory reference EH40/2005 (Fourth edition, 2020). HSE

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

##### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### 8.2.2. Personal protection equipment

##### Personal protective equipment symbol(s):



##### 8.2.2.1. Eye and face protection

###### Eye protection:

Avoid contact with eyes. In the event of high danger, protect the face with a face shield. Prescription glasses are not considered as protection. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure

#### Eye protection

| Type           | Field of application | Characteristics   | Standard |
|----------------|----------------------|-------------------|----------|
| Safety glasses |                      | With side shields | EN 166   |

##### 8.2.2.2. Skin protection

###### Hand protection:

Gloves must be selected according to the application and duration of use at the workstation

#### Hand protection

| Type                                  | Material | Permeation | Thickness (mm) | Penetration | Standard |
|---------------------------------------|----------|------------|----------------|-------------|----------|
| Disposable gloves,<br>Reusable gloves |          |            |                |             | EN 374   |

###### Other skin protection

##### Materials for protective clothing:

Avoid contact with skin. Grossly contaminated clothing should be removed and the skin washed with soap and water or a proprietary skin cleaner. In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605 to prevent skin contact. In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034 to prevent skin contact. Work clothing worn by personnel shall be laundered regularly

##### 8.2.2.3. Respiratory protection

###### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

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### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

#### Other information:

Use personal protective equipment that is clean and has been properly maintained. Store personal protective equipment in a clean place, away from the work area. You must check the condition of the protections before each use. Used at the recommended dosage dose on the label, the product is not classified and does not require the use of PPE. The solution remains a chemical to be handled with care.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|   |                         |
|---|-------------------------|
| Physical state                                  | : Liquid                |
| Colour  | : Yellow.               |
| Appearance                                      | : Clear.                |
| Odour   | : Perfumes, Fragrances. |
| Odour threshold                                 | : Not available         |
| Melting point                                   | : Not applicable        |
| Freezing point                                  | : Not available         |
| Boiling point                                   | : Not available         |
| Flammability                                    | : Not applicable        |
| Explosive limits                                | : Not available         |
| Lower explosion limit                           | : Not available         |
| Upper explosion limit                           | : Not available         |
| Flash point                                     | : 32 °C                 |
| Auto-ignition temperature                       | : Not available         |
| Decomposition temperature                       | : Not available         |
| pH  | : 6.5 – 7.5             |
| pH solution                                     | : 6.5 – 7.5             |
| Viscosity, kinematic                            | : Not available         |
| Solubility                                      | : Not available         |
| Partition coefficient n-octanol/water (Log Kow) | : Not available         |
| Vapour pressure                                 | : Not available         |
| Vapour pressure at 50°C                         | : Not available         |
| Density   | : Not available         |
| Relative density                                | : 0.97 – 0.98           |
| Relative vapour density at 20°C                 | : Not available         |
| Particle characteristics                        | : Not applicable        |

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

VOC content : 20.6 %

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Flammable liquid and vapour.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

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### 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

#### propan-2-ol (67-63-0)

|                                   |  |
|-----------------------------------|--|
| LD50 oral rat                     | 5840 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity) |
| LD50 oral                         | 4396 mg/kg bodyweight  |
| LD50 dermal                       | 12800 mg/kg bodyweight   |
| LC50 Inhalation - Rat (Dust/Mist) | 46600 mg/l   |

#### didecyldimethylammonium chloride (7173-51-5)

|                                   |  |
|-----------------------------------|--|
| LD50 oral rat                     | 329 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)  |
| LD50 oral                         | 329 mg/kg bodyweight   |
| LD50 dermal rat                   | > 1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)) |
| LD50 dermal                       | 3342 mg/kg bodyweight  |
| LC50 Inhalation - Rat (Dust/Mist) | 70 mg/l  |

#### 2-Propylheptyl alcohol, ethoxylated (10 EO) (160875-66-1)

|           |                        |
|-----------|------------------------|
| LD50 oral | > 300 mg/kg bodyweight |
|-----------|------------------------|

#### 2,6-DIMETHYL-7-OCTEN-2-OL (18479-58-8)

|                    |  |
|--------------------|--|
| LD50 dermal rabbit | > 5000 mg/kg bodyweight Animal: rabbit |
|--------------------|--|

#### Linalool (78-70-6)

|                    |  |
|--------------------|--|
| LD50 oral rat      | 2790 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 2440 - 3180      |
| LD50 oral          | 2790 mg/kg bodyweight  |
| LD50 dermal rabbit | 5610 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), 95% CL: 3578 - 8374 |
| LD50 dermal        | 5610 mg/kg bodyweight  |

#### CAMPHOR (76-22-2)

|                 |  |
|-----------------|--|
| LD50 oral rat   | 1310 mg/kg Source: ECHA  |
| LD50 oral       | 1310 mg/kg bodyweight Animal: mouse, Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method) |
| LD50 dermal rat | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)                   |



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| <b>CAMPHOR (76-22-2)</b>                            |   |
|---|---|
| LC50 Inhalation - Rat                               | 0.5 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)   |
| LC50 Inhalation - Rat (Dust/Mist)                   | > 5 mg/l  |
| <b>d-Limonene (5989-27-5)</b>                       |   |
| LD50 oral rat                                       | > 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method)   |
| LD50 oral   | 4400 mg/kg bodyweight   |
| LD50 dermal   | > 2000 mg/kg bodyweight   |
| <b>EUCALYPTOL (470-82-6)</b>                        |   |
| LD50 dermal rat                                     | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal))  |
| Skin corrosion/irritation                           | : Causes skin irritation.<br>pH: 6.5 – 7.5  |
| <b>didecyldimethylammonium chloride (7173-51-5)</b> |   |
| pH  | 6.8 – 6.9 Temp.: 25 °C Concentration: 1 other:% (w/w) tel quel and active ingredient  |
| Serious eye damage/irritation                       | : Causes serious eye damage.<br>pH: 6.5 – 7.5   |
| <b>didecyldimethylammonium chloride (7173-51-5)</b> |   |
| pH  | 6.8 – 6.9 Temp.: 25 °C Concentration: 1 other:% (w/w) tel quel and active ingredient  |
| Respiratory or skin sensitisation                   | : Not classified  |
| Germ cell mutagenicity                              | : Not classified  |
| Carcinogenicity                                     | : Not classified  |
| Reproductive toxicity                               | : Not classified  |
| STOT-single exposure                                | : Not classified  |
| <b>propan-2-ol (67-63-0)</b>                        |   |
| STOT-single exposure                                | May cause drowsiness or dizziness.  |
| STOT-repeated exposure                              | : Not classified  |
| <b>Linalool (78-70-6)</b>                           |   |
| NOAEL (dermal, rat/rabbit, 90 days)                 | 250 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)  |
| <b>CAMPHOR (76-22-2)</b>                            |   |
| NOAEL (oral, rat, 90 days)                          | 3.2 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)   |
| NOAEL (dermal, rat/rabbit, 90 days)                 | 250 mg/kg bodyweight Animal: rat, Guideline: other:Food and Drug Administration (FDA) Good Laboratory Practice Regulations for Nonclinical Studies (GLP Guidelines)   |
| STOT-repeated exposure                              | Causes damage to organs through prolonged or repeated exposure.   |
| <b>EUCALYPTOL (470-82-6)</b>                        |   |
| NOAEL (oral, rat, 90 days)                          | 600 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: other:japanese Ministry of Economy Trade and Industry Guideline for 28 day repeat oral dose toxicity study., Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents), Guideline: EPA OPPTS 870.3150 (90-Day Oral Toxicity in Nonrodents) |
| Aspiration hazard                                   | : Not classified  |
| <b>DESOFOR BACTÉRICIDE TONIC</b>                    |   |
| Vaporizer   | The mixture is used as a spray  |

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### didecyldimethylammonium chloride (7173-51-5)

|                      |  |
|----------------------|--|
| Viscosity, kinematic | 24.5 mm <sup>2</sup> /s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm <sup>2</sup> /s)' |
|----------------------|--|

### Linalool (78-70-6)

|                      |                          |
|----------------------|--------------------------|
| Viscosity, kinematic | 5.192 mm <sup>2</sup> /s |
|----------------------|--------------------------|

## 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Very toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short-term (acute) : Very toxic to aquatic life.

Hazardous to the aquatic environment, long-term (chronic) : Harmful to aquatic life with long lasting effects.

Not rapidly degradable

### propan-2-ol (67-63-0)

|                 |           |
|-----------------|-----------|
| LC50 - Fish [1] | 9640 mg/l |
|-----------------|-----------|

|                 |   |
|-----------------|---|
| LC50 - Fish [2] | 9640 mg/l Test organisms (species): Pimephales promelas |
|-----------------|---|

|                                    |                      |
|------------------------------------|----------------------|
| EC50 - Other aquatic organisms [1] | 13299 mg/l waterflea |
|------------------------------------|----------------------|

|                                    |             |
|------------------------------------|-------------|
| EC50 - Other aquatic organisms [2] | > 1000 mg/l |
|------------------------------------|-------------|

### didecyldimethylammonium chloride (7173-51-5)

|                 |           |
|-----------------|-----------|
| LC50 - Fish [1] | 0.49 mg/l |
|-----------------|-----------|

|                 |  |
|-----------------|--|
| LC50 - Fish [2] | 0.49 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) |
|-----------------|--|

|                      |  |
|----------------------|--|
| EC50 - Crustacea [1] | 0.057 mg/l Test organisms (species): Daphnia magna |
|----------------------|--|

|                      |  |
|----------------------|--|
| EC50 - Crustacea [2] | 0.029 mg/l Test organisms (species): Daphnia magna |
|----------------------|--|

|                                    |                      |
|------------------------------------|----------------------|
| EC50 - Other aquatic organisms [1] | 0.057 mg/l waterflea |
|------------------------------------|----------------------|

|                                    |            |
|------------------------------------|------------|
| EC50 - Other aquatic organisms [2] | 0.156 mg/l |
|------------------------------------|------------|

|                |   |
|----------------|---|
| LOEC (chronic) | 0.047 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
|----------------|---|

|                |   |
|----------------|---|
| NOEC (chronic) | 0.021 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
|----------------|---|

### 2,6-DIMETHYL-7-OCTEN-2-OL (18479-58-8)

|                 |  |
|-----------------|--|
| LC50 - Fish [1] | 27.8 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) |
|-----------------|--|

|                      |   |
|----------------------|---|
| EC50 - Crustacea [1] | 38 mg/l Test organisms (species): Daphnia magna |
|----------------------|---|

|                      |  |
|----------------------|--|
| EC50 72h - Algae [1] | 80 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |
|----------------------|--|

|                      |  |
|----------------------|--|
| EC50 72h - Algae [2] | 65 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |
|----------------------|--|

|                |   |
|----------------|---|
| NOEC (chronic) | 9.5 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
|----------------|---|

### Linalool (78-70-6)

|                 |           |
|-----------------|-----------|
| LC50 - Fish [1] | 27.8 mg/l |
|-----------------|-----------|

|                      |   |
|----------------------|---|
| EC50 - Crustacea [1] | 59 mg/l Test organisms (species): Daphnia magna |
|----------------------|---|

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| <b>Linalool (78-70-6)</b>          |   |
|------------------------------------|---|
| EC50 - Other aquatic organisms [1] | 20 mg/l waterflea   |
| EC50 - Other aquatic organisms [2] | 88.3 mg/l   |
| EC50 96h - Algae [1]               | 88.3 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)  |
| EC50 96h - Algae [2]               | 156.7 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |

| <b>CAMPHOR (76-22-2)</b> |   |
|--------------------------|---|
| LC50 - Fish [1]          | 35 – 50 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)   |
| LC50 - Fish [2]          | 110 mg/l Test organisms (species): Pimephales promelas  |
| EC50 - Crustacea [1]     | 4.23 mg/l Test organisms (species): Daphnia magna   |
| EC50 72h - Algae [1]     | 0.3 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)  |
| EC50 72h - Algae [2]     | 1.71 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| EC50 96h - Algae [1]     | 6.951 mg/l Test organisms (species):  |

| <b>d-Limonene (5989-27-5)</b>      |  |
|------------------------------------|--|
| LC50 - Fish [1]                    | 0.72 mg/l  |
| EC50 - Crustacea [1]               | 0.36 mg/l Test organisms (species): Daphnia magna  |
| EC50 - Other aquatic organisms [1] | 0.36 mg/l waterflea  |
| EC50 72h - Algae [1]               | ≈ 8 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)  |
| NOEC (chronic)                     | 0.115 mg/l Test organisms (species): other:For freshwater invertebrates, species frequently include Daphnia magna or Daphnia pulex. Duration: '16 d' |

| <b>EUCALYPTOL (470-82-6)</b> |   |
|------------------------------|---|
| LC50 - Fish [1]              | 57 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)  |
| EC50 - Crustacea [1]         | > 100 mg/l Test organisms (species): Daphnia magna  |
| EC50 72h - Algae [1]         | > 74 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| EC50 96h - Algae [1]         | > 74 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |

## 12.2. Persistence and degradability

| <b>didecyldimethylammonium chloride (7173-51-5)</b> |  |
|---|--|
| Biodegradation                                      | > 70 % (Activated Sludge) (OECD 301 D) |

## 12.3. Bioaccumulative potential

| <b>propan-2-ol (67-63-0)</b>                    |      |
|---|------|
| Partition coefficient n-octanol/water (Log Pow) | 0.05 |

| <b>didecyldimethylammonium chloride (7173-51-5)</b> |     |
|---|-----|
| Partition coefficient n-octanol/water (Log Pow)     | 0.4 |

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### Linalool (78-70-6)

Partition coefficient n-octanol/water (Log Pow) 2.84

### CAMPHOR (76-22-2)

Partition coefficient n-octanol/water (Log Pow) 2.38 Source: HSDB

### d-Limonene (5989-27-5)

Partition coefficient n-octanol/water (Log Pow) 4.38

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

|  |   |
|--|---|
| Waste treatment methods                    | : Dispose of contents/container in accordance with licensed collector's sorting instructions.   |
| Sewage disposal recommendations            | : Disposal must be done according to official regulations.  |
| Product/Packaging disposal recommendations | : Empty container completely. Keep label(s) on container. Dispose in a safe manner in accordance with local/national regulations. Prevent entry into storm water systems or watercourses. Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals. |
| Additional information                     | : Flammable vapours may accumulate in the container.  |

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

| ADR   | IMDG  | IATA   | ADN  | RID  |
|---|---|--|--|--|
| <b>14.1. UN number or ID number</b>   |   |  |  |  |
| UN 1993   | UN 1993   | UN 1993  | UN 1993  | UN 1993  |
| <b>14.2. UN proper shipping name</b>  |   |  |  |  |
| FLAMMABLE LIQUID, N.O.S. (propan-2-ol ; didecyldimethylammonium chloride)   | FLAMMABLE LIQUID, N.O.S. (propan-2-ol ; didecyldimethylammonium chloride)   | Flammable liquid, n.o.s. (propan-2-ol ; didecyldimethylammonium chloride)  | FLAMMABLE LIQUID, N.O.S. (propan-2-ol ; didecyldimethylammonium chloride)  | FLAMMABLE LIQUID, N.O.S. (propan-2-ol ; didecyldimethylammonium chloride)  |
| <b>Transport document description</b>   |   |  |  |  |
| UN 1993 FLAMMABLE LIQUID, N.O.S. (propan-2-ol ; didecyldimethylammonium chloride), 3, III, (D/E), ENVIRONMENTALLY HAZARDOUS | UN 1993 FLAMMABLE LIQUID, N.O.S. (propan-2-ol ; didecyldimethylammonium chloride), 3, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS | UN 1993 Flammable liquid, n.o.s. (propan-2-ol ; didecyldimethylammonium chloride), 3, III, ENVIRONMENTALLY HAZARDOUS | UN 1993 FLAMMABLE LIQUID, N.O.S. (propan-2-ol ; didecyldimethylammonium chloride), 3, III, ENVIRONMENTALLY HAZARDOUS | UN 1993 FLAMMABLE LIQUID, N.O.S. (propan-2-ol ; didecyldimethylammonium chloride), 3, III, ENVIRONMENTALLY HAZARDOUS |

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| ADR                                     | IMDG  | IATA                               | ADN                                | RID                                |
|---|---|------------------------------------|------------------------------------|------------------------------------|
| <b>14.3. Transport hazard class(es)</b> |   |                                    |                                    |                                    |
| 3                                       | 3   | 3                                  | 3                                  | 3                                  |
|   |   |                                    |                                    |                                    |
| <b>14.4. Packing group</b>              |   |                                    |                                    |                                    |
| III                                     | III   | III                                | III                                | III                                |
| <b>14.5. Environmental hazards</b>      |   |                                    |                                    |                                    |
| Dangerous for the environment: Yes      | Dangerous for the environment: Yes<br>Marine pollutant: Yes | Dangerous for the environment: Yes | Dangerous for the environment: Yes | Dangerous for the environment: Yes |
| No supplementary information available  |   |                                    |                                    |                                    |

### 14.6. Special precautions for user

#### Overland transport

|   |                           |
|---|---------------------------|
| Classification code (ADR)                                 | : F1                      |
| Special provisions (ADR)                                  | : 274, 601                |
| Limited quantities (ADR)                                  | : 5I                      |
| Excepted quantities (ADR)                                 | : E1                      |
| Packing instructions (ADR)                                | : P001, IBC03, LP01, R001 |
| Mixed packing provisions (ADR)                            | : MP19                    |
| Portable tank and bulk container instructions (ADR)       | : T4                      |
| Portable tank and bulk container special provisions (ADR) | : TP1, TP29               |
| Tank code (ADR)   | : LGBF                    |
| Vehicle for tank carriage                                 | : FL                      |
| Transport category (ADR)                                  | : 3                       |
| Special provisions for carriage - Packages (ADR)          | : V12                     |
| Special provisions for carriage - Operation (ADR)         | : S2                      |
| Hazard identification number (Kemler No.)                 | : 30                      |
| Orange plates   | :                         |

|                               |        |
|-------------------------------|--------|
| Tunnel restriction code (ADR) | : D/E  |
| EAC code                      | : •3YE |

#### Transport by sea

|                                 |                 |
|---------------------------------|-----------------|
| Special provisions (IMDG)       | : 223, 274, 955 |
| Limited quantities (IMDG)       | : 5 L           |
| Excepted quantities (IMDG)      | : E1            |
| Packing instructions (IMDG)     | : LP01, P001    |
| IBC packing instructions (IMDG) | : IBC03         |
| Tank instructions (IMDG)        | : T4            |
| Tank special provisions (IMDG)  | : TP1, TP29     |
| EmS-No. (Fire)                  | : F-E           |
| EmS-No. (Spillage)              | : S-E           |
| Stowage category (IMDG)         | : A             |

#### Air transport

|  |        |
|--|--------|
| PCA Excepted quantities (IATA)               | : E1   |
| PCA Limited quantities (IATA)                | : Y344 |
| PCA limited quantity max net quantity (IATA) | : 10L  |

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|                                 |        |
|---------------------------------|--------|
| PCA packing instructions (IATA) | : 355  |
| PCA max net quantity (IATA)     | : 60L  |
| CAO packing instructions (IATA) | : 366  |
| CAO max net quantity (IATA)     | : 220L |
| Special provisions (IATA)       | : A3   |
| ERG code (IATA)                 | : 3L   |

### Inland waterway transport

|                                   |             |
|-----------------------------------|-------------|
| Classification code (ADN)         | : F1        |
| Special provisions (ADN)          | : 274, 601  |
| Limited quantities (ADN)          | : 5 L       |
| Excepted quantities (ADN)         | : E1        |
| Equipment required (ADN)          | : PP, EX, A |
| Ventilation (ADN)                 | : VE01      |
| Number of blue cones/lights (ADN) | : 0         |

### Rail transport

|   |                           |
|---|---------------------------|
| Classification code (RID)                                 | : F1                      |
| Special provisions (RID)                                  | : 274, 601                |
| Limited quantities (RID)                                  | : 5L                      |
| Excepted quantities (RID)                                 | : E1                      |
| Packing instructions (RID)                                | : P001, IBC03, LP01, R001 |
| Mixed packing provisions (RID)                            | : MP19                    |
| Portable tank and bulk container instructions (RID)       | : T4                      |
| Portable tank and bulk container special provisions (RID) | : TP1, TP29               |
| Tank codes for RID tanks (RID)                            | : LGBF                    |
| Transport category (RID)                                  | : 3                       |
| Special provisions for carriage – Packages (RID)          | : W12                     |
| Colis express (express parcels) (RID)                     | : CE4                     |
| Hazard identification number (RID)                        | : 30                      |

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

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

##### REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

##### REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

##### REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

##### PIC Regulation (Prior Informed Consent)

Contains substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals):  
Didecyldimethylammonium chloride (7173-51-5)

##### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

##### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

##### VOC Directive (2004/42)

VOC content : 20.6 %

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### Biocide Regulation (528/2012)

Contains substance(s) listed on the Biocidal Products list (Regulation EU 528/2012 concerning the making available on the market and use of biocidal products)

Type of product (Biocide) : 2 - Disinfectants and algaecides not intended for direct application to humans or animals  
Authorisation number :  
Contains : propan-2-ol (14.85 % (pourcentage)); didecyldimethylammonium chloride (2.89 % (pourcentage))

### Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

### Abbreviations and acronyms:

|        |   |
|--------|---|
| ADN    | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR    | European Agreement concerning the International Carriage of Dangerous Goods by Road             |
| ATE    | Acute Toxicity Estimate   |
| BCF    | Bioconcentration factor   |
| BLV    | Biological limit value  |
| BOD    | Biochemical oxygen demand (BOD)   |
| COD    | Chemical oxygen demand (COD)  |
| DMEL   | Derived Minimal Effect level  |
| DNEL   | Derived-No Effect Level   |
| EC-No. | European Community number   |
| EC50   | Median effective concentration  |
| EN     | European Standard   |
| IARC   | International Agency for Research on Cancer   |
| IATA   | International Air Transport Association   |
| IMDG   | International Maritime Dangerous Goods  |
| LC50   | Median lethal concentration   |
| LD50   | Median lethal dose  |
| LOAEL  | Lowest Observed Adverse Effect Level  |
| NOAEC  | No-Observed Adverse Effect Concentration  |
| NOAEL  | No-Observed Adverse Effect Level  |
| NOEC   | No-Observed Effect Concentration  |
| OECD   | Organisation for Economic Co-operation and Development  |
| OEL    | Occupational Exposure Limit   |

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| Abbreviations and acronyms: |  |
|-----------------------------|--|
| PBT                         | Persistent Bioaccumulative Toxic   |
| PNEC                        | Predicted No-Effect Concentration  |
| RID                         | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS                         | Safety Data Sheet  |
| STP                         | Sewage treatment plant   |
| ThOD                        | Theoretical oxygen demand (ThOD)   |
| TLM                         | Median Tolerance Limit   |
| VOC                         | Volatile Organic Compounds   |
| CAS-No.                     | Chemical Abstract Service number   |
| N.O.S.                      | Not Otherwise Specified  |
| vPvB                        | Very Persistent and Very Bioaccumulative                                     |
| ED                          | Endocrine disrupting properties  |

### Other information

: Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations. The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions. It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

| Full text of H- and EUH-statements: |  |
|-------------------------------------|--|
| Acute Tox. 4 (Oral)                 | Acute toxicity (oral), Category 4  |
| Aquatic Acute 1                     | Hazardous to the aquatic environment – Acute Hazard, Category 1  |
| Aquatic Chronic 1                   | Hazardous to the aquatic environment – Chronic Hazard, Category 1  |
| Aquatic Chronic 2                   | Hazardous to the aquatic environment – Chronic Hazard, Category 2  |
| EUH208                              | Contains Linalool(78-70-6), d-Limonene(5989-27-5), EUCALYPTOL(470-82-6). May produce an allergic reaction. |
| Eye Dam. 1                          | Serious eye damage/eye irritation, Category 1  |
| Eye Irrit. 2                        | Serious eye damage/eye irritation, Category 2  |
| Flam. Liq. 2                        | Flammable liquids, Category 2  |
| Flam. Liq. 3                        | Flammable liquids, Category 3  |
| Flam. Sol. 2                        | Flammable solids, Category 2   |
| H225                                | Highly flammable liquid and vapour.  |
| H226                                | Flammable liquid and vapour.   |
| H228                                | Flammable solid.   |
| H302                                | Harmful if swallowed.  |
| H314                                | Causes severe skin burns and eye damage.   |
| H315                                | Causes skin irritation.  |
| H317                                | May cause an allergic skin reaction.   |
| H318                                | Causes serious eye damage.   |
| H319                                | Causes serious eye irritation.   |
| H336                                | May cause drowsiness or dizziness.   |
| H372                                | Causes damage to organs through prolonged or repeated exposure.  |



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| Full text of H- and EUH-statements: |  |
|-------------------------------------|--|
| 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.                       |
| H412                                | Harmful to aquatic life with long lasting effects.                     |
| Skin Corr. 1B                       | Skin corrosion/irritation, Category 1, Sub-Category 1B                 |
| Skin Irrit. 2                       | Skin corrosion/irritation, Category 2                                  |
| Skin Sens. 1                        | Skin sensitisation, Category 1   |
| Skin Sens. 1B                       | Skin sensitisation, category 1B  |
| STOT RE 1                           | Specific target organ toxicity – Repeated exposure, Category 1         |
| STOT SE 3                           | Specific target organ toxicity – Single exposure, Category 3, Narcosis |

The classification complies with : ATP 12

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.