

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : LUFRA BACTIFOAM  
Product code : 319  
Type of product : Biocidal products (e.g. Disinfectants, pest control), Detergent  
Product group : Mixture

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

##### Relevant identified uses

Main use category : Professional use  
Industrial/Professional use spec : For professional use only  
Use of the substance/mixture : Disinfectant  
Cleaner  
Degreaser

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

##### Manufacturer

Christeyns Professional Hygiene UK Ltd  
Clover House  
Macclesfield Road  
SK23 7DQ Whaley Bridge, Derbyshire  
United Kingdom  
T 01663 733114, F 01663 733115  
[info.cph.uk@christeyns.com](mailto:info.cph.uk@christeyns.com), [www.christeyns-ph.co.uk](http://www.christeyns-ph.co.uk)

##### Supplier

Christeyns NV  
Afrikalaan 182  
9000 GENT  
Belgium  
T +32 (0)9/ 223 38 71, F +32 (0)9/ 233 03 44  
[info@christeyns.be](mailto:info@christeyns.be), [www.christeyns.com](http://www.christeyns.com)

#### 1.4. Emergency telephone number

| Country/Area   | 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 | National Poisons Information Service<br>(Birmingham Centre)<br>City Hospital | Dudley Road<br>B18 7QH                   | 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]

Skin corrosion/irritation, Category 1 H314  
Serious eye damage/eye irritation, Category 1 H318  
Hazardous to the aquatic environment – Chronic Hazard, Category 3 H412

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

##### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

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

Hazard pictograms (CLP) :



GHS05

Signal word (CLP) :

Danger

Contains :

2-aminoethanol; ethanolamine; didecyltrimethylammonium chloride; Alcohols, C12-18, ethoxylated

Hazard statements (CLP) :

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

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Precautionary statements (CLP) : P260 - Do not breathe dusts or mists.  
P273 - Avoid release to the environment.  
P280 - Wear protective clothing, eye protection, face protection, protective gloves.  
P301+P330+P331+P310 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
Immediately call a POISON CENTER or doctor.  
P303+P361+P353+P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor.  
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 POISON CENTER or doctor.

### 2.3. Other hazards

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

Contains no PBT and/or vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH 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 substance(s) are 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

### 3.2. Mixtures

| Name  | Product identifier   | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP]  |
|---|--|---------|--|
| 2-aminoethanol; ethanolamine<br>substance with national workplace exposure limit(s)<br>(AT, BE, BG, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GI, GR, HR, HU, IE, IT, LT, LU, LV, MT, NL, PL, PT, RO, SE, SI, SK, AL, IS, NO, MK, RS, CH, TR);<br>substance with a Community workplace exposure limit | CAS-no: 141-43-5<br>EC-No.: 205-483-3<br>EC Index-No.: 603-030-00-8                                | 3 – 5   | Acute Tox. 4 (Oral), H302 (ATE=1089 mg/kg bodyweight)<br>Acute Tox. 4 (Dermal), H312 (ATE=1100 mg/kg bodyweight)<br>Acute Tox. 4 (Inhalation), H332 (ATE=1.5 mg/l/4h)<br>Skin Corr. 1B, H314<br>STOT SE 3, H335<br>Aquatic Chronic 3, H412 |
| didecyldimethylammonium chloride  | 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 | 2.312   | Acute Tox. 4 (Oral), H302 (ATE=84 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  |
| Alcohols, C12-18, ethoxylated   | CAS-no: 68213-23-0<br>EC-No.: 500-201-8<br>REACH-no: exemption polymer                             | 1 – 3   | Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight)<br>Eye Dam. 1, H318<br>Aquatic Chronic 3, H412  |
| potassium hydroxide; caustic potash<br>substance with national workplace exposure limit(s)<br>(AT, BE, BG, CZ, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, PL, PT, SE, IS, NO, CH)  | CAS-no: 1310-58-3<br>EC-No.: 215-181-3<br>EC Index-No.: 019-002-00-8<br>REACH-no: 01-2119487136-33 | 0.1 – 1 | Acute Tox. 4 (Oral), H302 (ATE=333 mg/kg bodyweight)<br>Skin Corr. 1A, H314<br>Eye Dam. 1, H318<br>Met. Corr. 1, H290  |

### Specific concentration limits:

| Name                                | Product identifier   | Specific concentration limits (%)   |
|-------------------------------------|--|---|
| 2-aminoethanol; ethanolamine        | CAS-no: 141-43-5<br>EC-No.: 205-483-3<br>EC Index-No.: 603-030-00-8                                | (5 ≤ C ≤ 100) STOT SE 3; H335   |
| potassium hydroxide; caustic potash | CAS-no: 1310-58-3<br>EC-No.: 215-181-3<br>EC Index-No.: 019-002-00-8<br>REACH-no: 01-2119487136-33 | (0.5 ≤ C < 2) Eye Irrit. 2; H319<br>(0.5 ≤ C < 2) Skin Irrit. 2; H315<br>(2 ≤ C < 5) Skin Corr. 1B; H314<br>(5 ≤ C ≤ 100) Skin Corr. 1A; H314 |

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

General advice : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

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|   |   |
|---|---|
| Inhalation  | : Allow affected person to breathe fresh air. Allow the victim to rest. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention. |
| Skin contact  | : Remove contaminated clothing. Drench affected area with water for at least 15 minutes. If skin irritation occurs: Get medical advice/attention.   |
| Eye contact   | : Immediately flush eyes thoroughly with water for at least 15 minutes. Obtain medical attention if pain, blinking or redness persists.   |
| Ingestion   | : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.  |
| <b>4.2. Most important symptoms and effects, both acute and delayed</b> |   |
| Acute effects inhalation  | : May cause irritation to the respiratory tract, sneezing, coughing, burning sensation of throat with constricting sensation of the larynx and difficulty in breathing.   |
| Acute effects skin  | : Causes severe burns.  |
| Acute effects eyes  | : Causes serious eye damage.  |
| Acute effects oral route  | : Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. Blood in vomit.  |

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

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

|                                |  |
|--------------------------------|--|
| Suitable extinguishing media   | : Foam. Carbon dioxide. Water. Dry powder. |
| Unsuitable extinguishing media | : Do not use a heavy water stream.         |

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

|  |   |
|--|---|
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. Corrosive vapours. Combustion products may include the following: carbon oxides (CO, CO <sub>2</sub> ) (carbon monoxide, carbon dioxide) nitrogen oxides (NO, NO <sub>2</sub> , etc.). |
|--|---|

### 5.3. Advice for firefighters

|                                |  |
|--------------------------------|--|
| Firefighting instructions      | : Fight fire with normal precautions from a reasonable distance. Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers. Prevent fire fighting water from entering the environment. |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection. Use a self-contained breathing apparatus and also a protective suit.   |

## SECTION 6: Accidental release measures

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

#### For non-emergency personnel

|                      |  |
|----------------------|--|
| Emergency procedures | : Only qualified personnel equipped with suitable protective equipment may intervene. Evacuate unnecessary personnel. Ventilate spillage area. Do not breathe vapours. |
|----------------------|--|

#### For emergency responders

|                      |   |
|----------------------|---|
| Protective equipment | : Equip cleanup crew with proper protection. Use self-contained breathing apparatus and chemically protective clothing.                                   |
| Emergency procedures | : Stop leak if safe to do so. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Ventilate area. |

### 6.2. Environmental precautions

Avoid release to the environment.

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

|                         |  |
|-------------------------|--|
| For containment         | : Absorb spilled material with sand or earth.  |
| Methods for cleaning up | : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. |
| Other information       | : Dispose of in accordance with relevant local regulations.  |

### 6.4. Reference to other sections

See Section 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

|                               |  |
|-------------------------------|--|
| Precautions for safe handling | : Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Wear personal protective equipment. Avoid contact with skin and eyes.        |
| Hygiene measures              | : Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. |

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

Storage conditions : Store in original container. Store at ambient temperature. Protect from sunlight. Keep container tightly closed.

Storage temperature : 5 – 35 °C

Storage area : Store in a well-ventilated place.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### National occupational exposure and biological limit values

| potassium hydroxide; caustic potash (1310-58-3)           |  |
|---|--|
| <b>Ireland - Occupational Exposure Limits</b>             |  |
| Local name  | Potassium hydroxide  |
| OEL STEL  | 2 mg/m <sup>3</sup>  |
| Remark  | Advisory OELV (Advisory Occupational Exposure Limit Values)  |
| Regulatory reference                                      | Chemical Agents Code of Practice 2024  |
| <b>United Kingdom - Occupational Exposure Limits</b>      |  |
| Local name  | Potassium hydroxide  |
| WEL STEL (OEL STEL)                                       | 2 mg/m <sup>3</sup>  |
| Regulatory reference                                      | EH40/2005 (Fourth edition, 2020). HSE  |
| <b>2-aminoethanol; ethanolamine (141-43-5)</b>            |  |
| <b>EU - Indicative Occupational Exposure Limit (IOEL)</b> |  |
| Local name  | 2-Aminoethanol   |
| IOEL TWA  | 2.5 mg/m <sup>3</sup>  |
|   | 1 ppm  |
| IOEL STEL   | 7.6 mg/m <sup>3</sup>  |
|   | 3 ppm  |
| Remark  | Skin   |
| Regulatory reference                                      | COMMISSION DIRECTIVE 2006/15/EC  |
| <b>Ireland - Occupational Exposure Limits</b>             |  |
| Local name  | 2-Aminoethanol [Ethanolamine]  |
| OEL TWA   | 2.5 mg/m <sup>3</sup>  |
|   | 1 ppm  |
| OEL STEL  | 7.6 mg/m <sup>3</sup>  |
|   | 3 ppm  |
| Remark  | IOELV (Indicative Occupational Exposure Limit Values), Skin (Substances which have the capacity to penetrate intact skin when they come in contact with it and be absorbed into the body. A substantial contribution to the total body burden via dermal exposure is possible) |
| Regulatory reference                                      | Chemical Agents Code of Practice 2024  |
| <b>United Kingdom - Occupational Exposure Limits</b>      |  |
| Local name  | 2-Aminoethanol   |
| WEL TWA (OEL TWA)   | 2.5 mg/m <sup>3</sup>  |
|   | 1 ppm  |
| WEL STEL (OEL STEL)                                       | 7.6 mg/m <sup>3</sup>  |
|   | 3 ppm  |
| Remark  | Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)  |

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### 2-aminoethanol; ethanolamine (141-43-5)

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

#### 8.2. Exposure controls

##### Personal protection equipment

##### Personal protective equipment:

Avoid all unnecessary exposure.

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



##### Eye and face protection

##### Eye protection:

Wear eye protection. Chemical goggles or safety glasses. ISO 16321-1

##### Skin protection

##### Protective equipment:

Wear suitable protective clothing minimum (EN 13034) Type 6 equipment

##### Hand protection:

Wear protective gloves. Chemical resistant PVC gloves (to European standard EN 374 or equivalent). Nitrile-rubber protective gloves

##### Respiratory protection

##### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Extra personal protection: A/P2 filter respirator for organic vapour and harmful dust. No personal breathing protective equipment is normally required

##### Environmental exposure controls

##### Other information:

Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

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

|   |   |
|---|---|
| Physical state                                  | : Liquid  |
| Colour  | : Pale yellow. Light brown.   |
| Physical state/form                             | : Liquid.   |
| Odour   | : Characteristic.   |
| Odour threshold                                 | : Not available   |
| Melting point/range                             | : 0 °C  |
| Freezing point                                  | : Not determined as it is not relevant for the characterization of the product  |
| Boiling point/Boiling range                     | : 100 °C  |
| Flammability                                    | : Not determined as it is not relevant for the characterization of the product<br>Non flammable.  |
| Lower explosion limit                           | : Constituents do not contain chemical groups associated with explosivity   |
| Upper explosion limit                           | : Constituents do not contain chemical groups associated with explosivity   |
| Flash point                                     | : Not determined as it is not relevant for the characterization of the product  |
| Autoignition temperature                        | : Determination of the auto-ignition temperature is only relevant for pyrophoric liquids, however the mixture is not a pyrophoric liquid so the test is not required. |
| Decomposition temperature                       | : Only applies to self-reactive substances and mixtures, organic peroxides, and other substances and mixtures that may decompose.                                     |
| pH  | : 12.4 – 13.4   |
| Viscosity, kinematic                            | : Thin liquid   |
| Viscosity, dynamic                              | : < 20 cP at 20 °C  |
| Solubility                                      | : Soluble in water.   |
| Partition coefficient n-octanol/water (Log Kow) | : Not available   |
| Vapour pressure                                 | : Not available   |
| Vapour pressure at 50°C                         | : Not available   |

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|                                 |                           |
|---------------------------------|---------------------------|
| Density                         | : Not available           |
| Relative density                | : 1.008 g/cm <sup>3</sup> |
| Relative vapour density at 20°C | : Not available           |
| Particle characteristics        | : Not applicable          |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Extremely high or low temperatures.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Hazardous decomposition products may be released during prolonged heating like smokes, carbon monoxide and dioxide. Nitrogen oxides.

## 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 |

| <b>potassium hydroxide; caustic potash (1310-58-3)</b> |  |
|--|--|
| LD50 oral  | 333 mg/kg bodyweight   |
| <b>2-aminoethanol; ethanolamine (141-43-5)</b>         |  |
| LD50 oral rat  | 1089 mg/kg Source: OECD SIDS   |
| LD50 oral  | 1515 mg/kg bodyweight  |
| LD50 dermal rabbit                                     | 2504 mg/kg Source: OECD SIDS   |
| LD50 dermal  | 2504 mg/kg bodyweight  |
| LC50 Inhalation - Rat (Dust/Mist)                      | 136 mg/l   |
| LC50 Inhalation - Rat (Vapours)                        | > 1487 mg/l Source: ECHA   |
| <b>didecyldimethylammonium chloride (7173-51-5)</b>    |  |
| LD50 oral rat  | 84 mg/kg Source: ChemIDPlus  |
| 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 rabbit                                     | ≈ 3342 mg/kg bodyweight Animal: rabbit, Guideline: other., Remarks on results: other., 95% CL: 0 - 4292  |
| LD50 dermal  | 3342 mg/kg bodyweight  |
| LC50 Inhalation - Rat (Dust/Mist)                      | 70 mg/l  |
| <b>Alcohols, C12-18, ethoxylated (68213-23-0)</b>      |  |
| LD50 oral rat  | 300 – 2000 mg/kg   |
| Skin corrosion/irritation                              | : Causes severe skin burns.<br>pH: 12.4 – 13.4   |
| <b>potassium hydroxide; caustic potash (1310-58-3)</b> |  |
| pH   | 14   |
| <b>2-aminoethanol; ethanolamine (141-43-5)</b>         |  |
| pH   | ≈ 12   |

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| <b>didecyldimethylammonium chloride (7173-51-5)</b> |                  |
|---|------------------|
| pH  | 6.8 Source: ECHA |

Serious eye damage/irritation : Causes serious eye damage.  
pH: 12.4 – 13.4

| <b>potassium hydroxide; caustic potash (1310-58-3)</b> |    |
|--|----|
| pH   | 14 |

| <b>2-aminoethanol; ethanolamine (141-43-5)</b> |      |
|--|------|
| pH   | ≈ 12 |

| <b>didecyldimethylammonium chloride (7173-51-5)</b> |                  |
|---|------------------|
| pH  | 6.8 Source: ECHA |

Respiratory or skin sensitisation : Not classified  
Additional information : Based on available data, the classification criteria are not met  
Germ cell mutagenicity : Not classified  
Additional information : Based on available data, the classification criteria are not met  
Carcinogenicity : Not classified  
Additional information : Based on available data, the classification criteria are not met  
Reproductive toxicity : Not classified  
Additional information : Based on available data, the classification criteria are not met  
STOT-single exposure : Not classified  
Additional information : Based on available data, the classification criteria are not met

| <b>2-aminoethanol; ethanolamine (141-43-5)</b> |                                   |
|--|-----------------------------------|
| STOT-single exposure                           | May cause respiratory irritation. |

STOT-repeated exposure : Not classified  
Additional information : Based on available data, the classification criteria are not met  
Aspiration hazard : Not classified  
Additional information : Based on available data, the classification criteria are not met

| <b>LUFRA BACTIFOAM</b> |             |
|------------------------|-------------|
| Viscosity, kinematic   | Thin liquid |

| <b>2-aminoethanol; ethanolamine (141-43-5)</b> |                           |
|--|---------------------------|
| Viscosity, kinematic                           | 18.578 mm <sup>2</sup> /s |

| <b>didecyldimethylammonium chloride (7173-51-5)</b> |  |
|---|--|
| Viscosity, kinematic                                | ≈ 24.5 mm <sup>2</sup> /s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm <sup>2</sup> /s)' |

### 11.2. Information on other hazards

#### Other information

Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met

## SECTION 12: Ecological information

### 12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified

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

| <b>potassium hydroxide; caustic potash (1310-58-3)</b> |  |
|--|--|
| LC50 - Fish [1]  | Western mosquitofish ( <i>Gambusia affinis</i> ) 80 mg/l. 96 hours |

| <b>2-aminoethanol; ethanolamine (141-43-5)</b> |  |
|--|--|
| LC50 - Fish [1]                                | 349 mg/l                                     |
| LC50 - Fish [2]                                | 170 mg/l <i>Carassius auratus</i> (goldfish) |

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| <b>2-aminoethanol; ethanolamine (141-43-5)</b> |  |
|--|--|
| EC50 - Crustacea [1]                           | 32.6 mg/l  |
| EC50 - Other aquatic organisms [1]             | 65 mg/l waterflea  |
| EC50 - Other aquatic organisms [2]             | 2.5 mg/l   |
| EC50 72h - Algae [1]                           | 22 mg/l <i>Scenedesmus subspicatus</i>                       |
| ErC50 algae                                    | 2.1 mg/l Source: ECHA  |
| NOEC chronic fish                              | 1.2 mg/l <i>Oryzias latipes</i> (Orange-red killifish); 30 d |
| NOEC chronic crustacea                         | 0.85 mg/l <i>Daphnia magna</i> , 21 days                     |

| <b>didecyldimethylammonium chloride (7173-51-5)</b> |   |
|---|---|
| LC50 - Fish [1]                                     | ≈ 0.97 mg/l Test organisms (species): <i>Danio rerio</i> (previous name: <i>Brachydanio rerio</i> )   |
| LC50 - Fish [2]                                     | ≈ 0.49 mg/l Test organisms (species): <i>Danio rerio</i> (previous name: <i>Brachydanio rerio</i> )   |
| EC50 - Crustacea [1]                                | ≈ 0.057 mg/l Test organisms (species): <i>Daphnia magna</i>   |
| EC50 - Crustacea [2]                                | ≈ 0.029 mg/l Test organisms (species): <i>Daphnia magna</i>   |
| EC50 - Other aquatic organisms [1]                  | 0.057 mg/l waterflea  |
| EC50 - Other aquatic organisms [2]                  | 0.156 mg/l  |
| EC50 72h - Algae [1]                                | ≈ 0.062 mg/l Test organisms (species): <i>Pseudokirchneriella subcapitata</i> (previous names: <i>Raphidocelis subcapitata</i> , <i>Selenastrum capricornutum</i> ) |
| LOEC (chronic)                                      | ≈ 0.047 mg/l Test organisms (species): <i>Daphnia magna</i> Duration: '21 d'  |
| NOEC (chronic)                                      | ≈ 0.021 mg/l Test organisms (species): <i>Daphnia magna</i> Duration: '21 d'  |
| NOEC chronic fish                                   | 0.013 mg/l <i>Pseudokirchneriella subcapitata</i> , 72 hours  |
| NOEC chronic crustacea                              | 0.021 mg/l <i>Daphnia</i> , 21 days   |

### 12.2. Persistence and degradability

| <b>LUFRA BACTIFOAM</b>        |   |
|-------------------------------|---|
| Persistence and degradability | Biodegradable. The surfactant(s) contained in this preparation 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. |

| <b>2-aminoethanol; ethanolamine (141-43-5)</b> |   |
|--|---|
| Biochemical oxygen demand (BOD)                | 8 g O <sub>2</sub> /g substance Incubation time: 5 days |
| Biodegradation                                 | > 90 % 21 days, OECD 301A                               |

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

| <b>Alcohols, C12-18, ethoxylated (68213-23-0)</b> |                |
|---|----------------|
| Persistence and degradability                     | Biodegradable. |

### 12.3. Bioaccumulative potential

| <b>LUFRA BACTIFOAM</b>    |                     |
|---------------------------|---------------------|
| Bioaccumulative potential | No bioaccumulation. |

| <b>2-aminoethanol; ethanolamine (141-43-5)</b>  |       |
|---|-------|
| Log Pow   | -1.31 |
| Partition coefficient n-octanol/water (Log Kow) | -1.91 |

| <b>didecyldimethylammonium chloride (7173-51-5)</b> |             |
|---|-------------|
| BCF - Fish [1]                                      | 81 OECD 305 |
| Log Pow   | 0.4         |

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### 12.4. Mobility in soil

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

Mobility in soil 667 – 24433 Source: ECHA

### 12.5. Results of PBT and vPvB assessment

#### LUFRA BACTIFOAM

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

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

#### LUFRA BACTIFOAM

Other information Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods

: Dispose of this material and its container at hazardous or special waste collection point.

Product/Packaging disposal recommendations

: Refer to manufacturer/supplier for information on recovery/recycling. a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

Waste / unused products

: Collect all waste in suitable and labelled containers and dispose according to local legislation. Do not discharge into drains or the environment.

European List of Waste (LoW, EC 2000/532)

: 20 01 29\* - detergents containing dangerous substances

HP Code

: HP8 - "Corrosive:" waste which on application can cause skin corrosion.  
HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

| ADR   | IMDG   | IATA   |
|---|--|--|
| <b>14.1. UN number or ID number</b>   |  |  |
| UN 3267   | UN 3267  | UN 3267  |
| <b>14.2. UN proper shipping name</b>  |  |  |
| CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (2-aminoethanol ; Didecyldimethylammonium Chloride)                      | CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (2-aminoethanol ; Didecyldimethylammonium Chloride)                 | Corrosive liquid, basic, organic, n.o.s. (2-aminoethanol ; Didecyldimethylammonium Chloride)                 |
| <b>Transport document description</b>   |  |  |
| UN 3267 CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (2-aminoethanol ; Didecyldimethylammonium Chloride), 8, III, (E) | UN 3267 CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (2-aminoethanol ; Didecyldimethylammonium Chloride), 8, III | UN 3267 Corrosive liquid, basic, organic, n.o.s. (2-aminoethanol ; Didecyldimethylammonium Chloride), 8, III |
| <b>14.3. Transport hazard class(es)</b>   |  |  |
| 8<br>                          | 8<br>                     | 8<br>                   |
| <b>14.4. Packing group</b>  |  |  |
| III   | III  | III  |
| <b>14.5. Environmental hazards</b>  |  |  |
| Dangerous for the environment: No   | Dangerous for the environment: No<br>Marine pollutant: No  | Dangerous for the environment: No  |
| No supplementary information available  |  |  |

### 14.6. Special precautions for user

#### Overland transport

Classification code (ADR) : C7

Special provisions (ADR) : 274

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|   |                           |
|---|---------------------------|
| Limited quantities (ADR)                                  | : 5l                      |
| Packing instructions (ADR)                                | : P001, IBC03, LP01, R001 |
| Mixed packing provisions (ADR)                            | : MP19                    |
| Portable tank and bulk container instructions (ADR)       | : T7                      |
| Portable tank and bulk container special provisions (ADR) | : TP1, TP28               |
| Tank code (ADR)   | : L4BN                    |
| Vehicle for tank carriage                                 | : AT                      |
| Transport category (ADR)                                  | : 3                       |
| Special provisions for carriage - Packages (ADR)          | : V12                     |
| Hazard identification number (Kemler No.)                 | : 80                      |
| Orange plates   | :                         |



|             |      |
|-------------|------|
| Tunnel code | : E  |
| EAC code    | : 2X |

### Transport by sea

|                                 |              |
|---------------------------------|--------------|
| Special provisions (IMDG)       | : 223, 274   |
| Limited quantities (IMDG)       | : 5 L        |
| Packing instructions (IMDG)     | : P001, LP01 |
| IBC packing instructions (IMDG) | : IBC03      |

### Air transport

|  |            |
|--|------------|
| PCA Limited quantities (IATA)                | : Y841     |
| PCA limited quantity max net quantity (IATA) | : 1L       |
| PCA packing instructions (IATA)              | : 852      |
| PCA max net quantity (IATA)                  | : 5L       |
| CAO packing instructions (IATA)              | : 856      |
| CAO max net quantity (IATA)                  | : 60L      |
| Special provisions (IATA)                    | : A3, A803 |

### 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

#### 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 (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

##### Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

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### Detergent Regulation (EC 648/2004)

| Labelling of contents                       |     |
|---|-----|
| Component                                   | %   |
| cationic surfactants, non-ionic surfactants | <5% |

### Explosives Precursors Regulation (EU 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 (EC 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)

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

Data sources

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information

: None.

| Full text of H- and EUH-statements: |  |
|-------------------------------------|--|
| Acute Tox. 4 (Dermal)               | Acute toxicity (dermal), Category 4  |
| Acute Tox. 4 (Inhalation)           | Acute toxicity (inhal.), Category 4  |
| Acute Tox. 4 (Oral)                 | Acute toxicity (oral), Category 4  |
| Aquatic Acute 1                     | Hazardous to the aquatic environment – Acute Hazard, Category 1                            |
| Aquatic Chronic 2                   | Hazardous to the aquatic environment – Chronic Hazard, Category 2                          |
| Aquatic Chronic 3                   | Hazardous to the aquatic environment – Chronic Hazard, Category 3                          |
| Eye Dam. 1                          | Serious eye damage/eye irritation, Category 1  |
| Eye Irrit. 2                        | Serious eye damage/eye irritation, Category 2  |
| Met. Corr. 1                        | Corrosive to metals, Category 1  |
| Skin Corr. 1A                       | Skin corrosion/irritation, Category 1, Sub-Category 1A                                     |
| Skin Corr. 1B                       | Skin corrosion/irritation, Category 1, Sub-Category 1B                                     |
| Skin Irrit. 2                       | Skin corrosion/irritation, Category 2  |
| STOT SE 3                           | Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation |
| H290                                | May be corrosive to metals.  |
| H302                                | Harmful if swallowed.  |
| H312                                | Harmful in contact with skin.  |
| H314                                | Causes severe skin burns and eye damage.   |
| H315                                | Causes skin irritation.  |
| H318                                | Causes serious eye damage.   |
| H319                                | Causes serious eye irritation.   |
| H332                                | Harmful if inhaled.  |
| H335                                | May cause respiratory irritation.  |
| H400                                | Very toxic to aquatic life.  |
| H411                                | Toxic to aquatic life with long lasting effects.   |
| H412                                | Harmful to aquatic life with long lasting effects.   |

| Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]: |      |                       |
|---|------|-----------------------|
| Skin Corr. 1  | H314 | On basis of test data |

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### Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

|                   |      |                       |
|-------------------|------|-----------------------|
| Eye Dam. 1        | H318 | On basis of test data |
| Aquatic Chronic 3 | H412 |                       |

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.