

# ECO-MIX FLORAL DISINFECTANT

CODE : TC1165

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830  
Revision date: 24/05/2021 Version: 10.5

Generated : 24/05/2021

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : ECO-MIX FLORAL DISINFECTANT  
UFI : 6R04-6062-N00W-UND5  
Product code : TC1165  
Type of product : Disinfectant

#### 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  
Industrial/Professional use spec : For professional use only  
Use of the substance/mixture : Surface disinfectant

##### 1.2.2. Uses advised against

No additional information available

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

##### MANGROVE PROFESSIONAL

PO BOX 3348  
STAFFORD  
ST16 9NW  
UNITED KINGDOM

Tel: 01785 253702  
Email: info@mangroveprofessional.co.uk

#### 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 | National Poisons Information Service<br>(Birmingham Centre)<br>City Hospital | Dudley Road<br>B18 7QH Birmingham        | 0344 892 0111  |         |

### 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 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

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

No additional information available

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

## 2.2. Label elements

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

Hazard pictograms (CLP) :



GHS05

GHS09

Signal word (CLP) :

: Danger

Contains :

: didecyldimethylammonium chloride; Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides; N,N-dimethyldecylamine N-oxide

Hazard statements (CLP) :

: H315 - Causes skin irritation.

H318 - Causes serious eye damage.

H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) :

: P264 - Wash hands thoroughly after handling.

P273 - Avoid release to the environment.

P280 - Wear eye protection, protective gloves.

P302+P352 - IF ON SKIN: Wash with plenty of soap, water.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P315 - Get immediate medical advice/attention.

P362+P364 - Take off contaminated clothing and wash it before reuse.

P391 - Collect spillage.

EUH-statements :

: EUH208 - Contains Citronellol, Hexyl cinnamic aldehyde. May produce an allergic reaction.

## 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

## 3.1. Substances

Not applicable

## 3.2. Mixtures

| Name  | Product identifier  | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP]   |
|---|---|---------|---|
| Citric acid   | (CAS-No.) 77-92-9<br>(EC-No.) 201-069-1<br>(REACH-no) 01-2119457026-42                                  | 5 – 10  | Eye Irrit. 2, H319  |
| 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 | 1 – 5   | Acute Tox. 4 (Oral), H302<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Aquatic Acute 1, H400 (M=10)<br>Aquatic Chronic 2, H411       |
| Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides | (CAS-No.) 68424-85-1<br>(EC-No.) 270-325-2<br>(REACH-no) 01-2119965180-41                               | 1 – 5   | Acute Tox. 4 (Oral), H302<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Aquatic Acute 1, H400 (M=10)<br>Aquatic Chronic 1, H410 (M=1) |
| N,N-dimethyldecylamine N-oxide  | (CAS-No.) 2605-79-0<br>(EC-No.) 220-020-5<br>(REACH-no) 01-2119959297-22                                | 1 – 5   | Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Aquatic Acute 1, H400  |
| Citronellol   | (CAS-No.) 106-22-9<br>(EC-No.) 203-375-0<br>(REACH-no) 01-2119453995-23                                 | 0.1 – 1 | Eye Irrit. 2, H319<br>Skin Irrit. 2, H315<br>Skin Sens. 1B, H317  |

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

|                         |   |         |   |
|-------------------------|---|---------|---|
| Hexyl cinnamic aldehyde | (CAS-No.) 101-86-0<br>(EC-No.) 202-983-3<br>(REACH-no) 01-2119533092-50 | 0.1 – 1 | Skin Sens. 1B, H317<br>Aquatic Acute 1, H400 (M=1)<br>Aquatic Chronic 2, H411 |
|-------------------------|---|---------|---|

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            | : Get medical advice/attention if you feel unwell.   |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing.   |
| First-aid measures after skin contact | : Wash skin with plenty of water.  |
| First-aid measures after eye contact  | : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |
| First-aid measures after ingestion    | : Do NOT induce vomiting. Rinse mouth. Drink plenty of water. Get medical advice/attention.  |

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

|                                     |  |
|-------------------------------------|--|
| Symptoms/effects after inhalation   | : May cause respiratory irritation.                                      |
| Symptoms/effects after skin contact | : Causes skin irritation.  |
| Symptoms/effects after eye contact  | : Causes serious eye damage.   |
| Symptoms/effects after ingestion    | : May cause gastrointestinal irritation, nausea, vomiting and diarrhoea. |

#### 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 : Carbon dioxide. Dry powder. Foam.

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

No additional information available

#### 5.3. Advice for firefighters

No additional information available

### SECTION 6: Accidental release measures

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

##### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

Protective equipment : Use personal protective equipment as required.

#### 6.2. Environmental precautions

Avoid release to the environment.

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

|                         |   |
|-------------------------|---|
| For containment         | : Collect spillage.   |
| Methods for cleaning up | : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. |

#### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes.  
Hygiene measures : Do not eat, drink or smoke when using this product.

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

Technical measures : Does not require any specific or particular technical measures.  
Storage conditions : Keep container closed when not in use.  
Incompatible products : Oxidizing agent. Strong acids. Strong bases.  
Special rules on packaging : Keep only in original 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

No additional information available

##### 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

No additional information available

##### 8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



##### 8.2.2.1. Eye and face protection

###### Eye protection:

Safety glasses. EN 166

##### 8.2.2.2. Skin protection

###### Skin and body protection:

Not required for normal conditions of use

###### Hand protection:

Chemical resistant gloves (according to European standard EN 374 or equivalent). Nitrile rubber gloves

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### Other skin protection

#### Materials for protective clothing:

Not required for normal conditions of use

### 8.2.2.3. Respiratory protection

#### Respiratory protection:

Not required for normal conditions of use

### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

No additional information available

## SECTION 9: Physical and chemical properties

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

|   |                     |
|---|---------------------|
| Physical state                                  | : Liquid            |
| Appearance                                      | : Liquid.           |
| Colour  | : pink.             |
| Odour   | : Floral.           |
| Odour threshold                                 | : No data available |
| pH  | : 2.3               |
| Relative evaporation rate (butylacetate=1)      | : No data available |
| Melting point                                   | : No data available |
| Freezing point                                  | : No data available |
| Boiling point                                   | : $\geq 100$ °C     |
| Flash point                                     | : No data available |
| Auto-ignition temperature                       | : No data available |
| Decomposition temperature                       | : No data available |
| Flammability (solid, gas)                       | : No data available |
| Vapour pressure                                 | : No data available |
| Relative vapour density at 20 °C                | : No data available |
| Relative density                                | : 1.018             |
| Solubility                                      | : soluble in water. |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Viscosity, kinematic                            | : No data available |
| Viscosity, dynamic                              | : No data available |
| Explosive properties                            | : No data available |
| Oxidising properties                            | : No data available |
| Explosive limits                                | : No data available |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

None under normal use.

### 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 toxicological effects

|                                   |   |
|-----------------------------------|---|
| Acute toxicity (oral)             | : Not classified                        |
| Acute toxicity (dermal)           | : Not classified                        |
| Acute toxicity (inhalation)       | : Not classified                        |
| Skin corrosion/irritation         | : Causes skin irritation.<br>pH: 2.3    |
| Serious eye damage/irritation     | : Causes serious eye damage.<br>pH: 2.3 |
| Respiratory or skin sensitisation | : Not classified                        |
| Germ cell mutagenicity            | : Not classified                        |
| Carcinogenicity                   | : Not classified                        |
| Reproductive toxicity             | : Not classified                        |
| STOT-single exposure              | : Not classified                        |
| STOT-repeated exposure            | : Not classified                        |
| Aspiration hazard                 | : Not classified                        |

## SECTION 12: Ecological information

### 12.1. Toxicity

|   |  |
|---|--|
| 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. |

#### Citric acid (77-92-9)

|                                    |                   |
|------------------------------------|-------------------|
| LC50 - Fish [1]                    | > 100 mg/l        |
| EC50 - Other aquatic organisms [1] | 85 mg/l waterflea |

#### Citronellol (106-22-9)

|                                    |                      |
|------------------------------------|----------------------|
| LC50 - Fish [1]                    | 10 mg/l              |
| EC50 - Other aquatic organisms [1] | 17.48 mg/l waterflea |
| EC50 - Other aquatic organisms [2] | 2.38 mg/l            |

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

**Hexyl cinnamic aldehyde (101-86-0)**

|                                    |             |
|------------------------------------|-------------|
| LC50 - Fish [1]                    | 1.7 mg/l    |
| EC50 - Other aquatic organisms [2] | > 0.32 mg/l |

**12.2. Persistence and degradability**

No additional information available

**12.3. Bioaccumulative potential****Citric acid (77-92-9)**

|   |       |
|---|-------|
| Partition coefficient n-octanol/water (Log Pow) | -1.72 |
|---|-------|

**N,N-dimethyldecylamine N-oxide (2605-79-0)**

|   |      |
|---|------|
| Partition coefficient n-octanol/water (Log Pow) | 3.69 |
|---|------|

**Citronellol (106-22-9)**

|   |     |
|---|-----|
| Partition coefficient n-octanol/water (Log Pow) | 3.1 |
|---|-----|

**Hexyl cinnamic aldehyde (101-86-0)**

|   |     |
|---|-----|
| Partition coefficient n-octanol/water (Log Pow) | 5.3 |
|---|-----|

**12.4. Mobility in soil**

No additional information available

**12.5. Results of PBT and vPvB assessment**

No additional information available

**12.6. Other adverse effects**

No additional information available

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

No additional information available

**SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA

**14.1 UN number**

|               |           |
|---------------|-----------|
| UN-No. (ADR)  | : UN 3082 |
| UN-No. (IMDG) | : UN 3082 |
| UN-No. (IATA) | : UN 3082 |

**14.2. UN proper shipping name**

|                             |   |
|-----------------------------|---|
| Proper Shipping Name (ADR)  | : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
| Proper Shipping Name (IMDG) | : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
| Proper Shipping Name (IATA) | : Environmentally hazardous substance, liquid, n.o.s. |

Safety Data Sheet

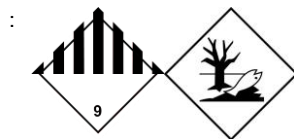
according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

|                                       |  |
|---------------------------------------|--|
| Transport document description (ADR)  | : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ALKYLDIMETHYLBENZYLAMMONIUM CHLORIDE, DIDECYL DIMETHYLAMMONIUM CHLORIDE), 9, III, (-) |
| Transport document description (IMDG) | : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ALKYLDIMETHYLBENZYLAMMONIUM CHLORIDE, DIDECYL DIMETHYLAMMONIUM CHLORIDE), 9, III      |
| Transport document description (IATA) | : UN 3082 Environmentally hazardous substance, liquid, n.o.s. (ALKYLDIMETHYLBENZYLAMMONIUM CHLORIDE, DIDECYL DIMETHYLAMMONIUM CHLORIDE), 9, III      |

**14.3. Transport hazard class(es)**

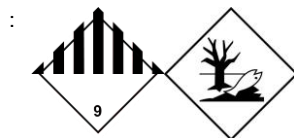
**ADR**

|                                  |     |
|----------------------------------|-----|
| Transport hazard class(es) (ADR) | : 9 |
| Danger labels (ADR)              | : 9 |



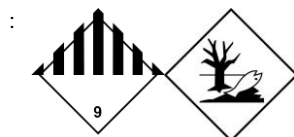
**IMDG**

|                                   |     |
|-----------------------------------|-----|
| Transport hazard class(es) (IMDG) | : 9 |
| Danger labels (IMDG)              | : 9 |



**IATA**

|                                   |     |
|-----------------------------------|-----|
| Transport hazard class(es) (IATA) | : 9 |
| Danger labels (IATA)              | : 9 |



**14.4. Packing group**

|                      |       |
|----------------------|-------|
| Packing group (ADR)  | : III |
| Packing group (IMDG) | : III |
| Packing group (IATA) | : III |

**14.5. Environmental hazards**

|                               |  |
|-------------------------------|--|
| Dangerous for the environment | : Yes (Environmentally hazardous substances derogation applies (quantity of liquids ≤ 5 litres or net mass of solids ≤ 5 kg). The environmentally hazardous substance mark is therefore not required, as stated in the ADR regulation, section 5.2.1.8.1.) |
| Marine pollutant              | : Yes (IMDG 5.2.1.6.1 derogation applies (quantity of liquids ≤ 5 litres or net mass of solids ≤ 5 kg))  |
| Other information             | : No supplementary information available   |

**14.6. Special precautions for user**

**Overland transport**

|                                  |                           |
|----------------------------------|---------------------------|
| Classification code (ADR)        | : M6                      |
| Special provisions (ADR)         | : 274, 335, 601           |
| Limited quantities (ADR)         | : 5I                      |
| Excepted quantities (ADR)        | : E1                      |
| Packing instructions (ADR)       | : P001, IBC03, LP01, R001 |
| Special packing provisions (ADR) | : PP1                     |
| Mixed packing provisions (ADR)   | : MP19                    |



## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Portable tank and bulk container instructions (ADR) : T4  
 Portable tank and bulk container special provisions (ADR) : TP1, TP29  
 Tank code (ADR) : LGBV  
 Vehicle for tank carriage : AT  
 Transport category (ADR) : 3  
 Special provisions for carriage - Packages (ADR) : V12  
 Special provisions for carriage - Loading, unloading and handling (ADR) : CV13  
 Hazard identification number (Kemler No.) : 90  
 Orange plates :



Tunnel restriction code (ADR) : -  
 EAC code : •3Z

**Transport by sea**

Special provisions (IMDG) : 274, 335, 969  
 Limited quantities (IMDG) : 5 L  
 Excepted quantities (IMDG) : E1  
 Packing instructions (IMDG) : P001, LP01  
 Special packing provisions (IMDG) : PP1  
 IBC packing instructions (IMDG) : IBC03  
 Tank instructions (IMDG) : T4  
 Tank special provisions (IMDG) : TP2, TP29  
 EmS-No. (Fire) : F-A  
 EmS-No. (Spillage) : S-F  
 Stowage category (IMDG) : A

**Air transport**

PCA Excepted quantities (IATA) : E1  
 PCA Limited quantities (IATA) : Y964  
 PCA limited quantity max net quantity (IATA) : 30kgG  
 PCA packing instructions (IATA) : 964  
 PCA max net quantity (IATA) : 450L  
 CAO packing instructions (IATA) : 964  
 CAO max net quantity (IATA) : 450L  
 Special provisions (IATA) : A97, A158, A197  
 ERG code (IATA) : 9L

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

IBC code : 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**

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Substances subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals: Didecyldimethylammonium chloride (7173-51-5)

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

**15.1.2. National regulations****United Kingdom**

British National Regulations : Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).  
 Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008.

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

## 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

| 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                |
| Eye Dam. 1                          | Serious eye damage/eye irritation, Category 1                                    |
| Eye Irrit. 2                        | Serious eye damage/eye irritation, Category 2                                    |
| Skin Corr. 1B                       | Skin corrosion/irritation, Category 1, Sub-Category 1B                           |
| Skin Irrit. 2                       | Skin corrosion/irritation, Category 2  |
| Skin Sens. 1B                       | Skin sensitisation, category 1B  |
| 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.   |
| 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.                               |
| EUH208                              | Contains Citronellol, Hexyl cinnamic aldehyde. May produce an allergic reaction. |

| Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]: |      |                    |
|---|------|--------------------|
| Skin Irrit. 2   | H315 | Calculation method |
| Eye Dam. 1  | H318 | Calculation method |
| Aquatic Acute 1   | H400 | Calculation method |
| Aquatic Chronic 3   | H412 | Calculation method |

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.