



DE HEKSERIJ

# Lime Leaves (IFF)

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 1/17/2024 Revision date: 2/13/2026 Supersedes version of: 1/17/2024 Version: 2.0

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : Lime Leaves (IFF)  
UFI : 0PEH-GRNJ-C42C-2X5G  
Product code : 23165  
Product group : Trade product

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

##### Relevant identified uses

Intended for general public  
Main use category : Professional use, Consumer use  
Use of the substance/mixture : Fragrance raw material

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

De Hekserij  
Sporstraat 57  
8271 RG IJsselmuiden  
Nederland  
T +31 383 557 927  
[hekserij@hekserij.nl](mailto:hekserij@hekserij.nl), [www.hekserij.nl](http://www.hekserij.nl)

#### 1.4. Emergency telephone number

No additional information available

### 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  
Skin sensitisation, category 1B H317  
Hazardous to the aquatic environment – Chronic Hazard, Category 2 H411

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

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

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Toxic 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)

: Danger

Contains

: Coranol; Citrus aurantium peel oil

Hazard statements (CLP)

: H315 - Causes skin irritation.  
H317 - May cause an allergic skin reaction.  
H318 - Causes serious eye damage.  
H411 - Toxic to aquatic life with long lasting effects.

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|                                |  |
|--------------------------------|--|
| Precautionary statements (CLP) | : P102 - Keep out of reach of children.<br>P273 - Avoid release to the environment.<br>P280 - Wear protective gloves, protective clothing, eye protection.<br>P302+P352 - IF ON SKIN: Wash with plenty of soap and water.<br>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P310 - Immediately call a doctor, a POISON CENTER.<br>P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.<br>P362+P364 - Take off contaminated clothing and wash it before reuse.<br>P391 - Collect spillage.<br>P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. |
| Extra phrases                  | : Fragrance allergens (Cosmetics):<br>ALPHA-TERPINENE 0,065<br>BENZYL ALCOHOL 0,002<br>BETA-CARYOPHYLLENE 0,002<br>CAMPHOR 0,004<br>CARVONE 1,004<br>CINNAMAL 0,002<br>CITRONELLOL 0,017<br>CITRUS AURANTIUM AMARA PEEL 0,7<br>EUGENOL 0,2<br>GERANIOL 0,011<br>GERANYL ACETATE 0,551<br>ISOEUGENOL 0,002<br>LIMONENE 1,77<br>LINALOOL 0,084<br>LINALYL ACETATE 0,006<br>PINENE 0,386<br>TERPINEOL 1,348<br>TERPINOLENE 0,038.   |

### 2.3. Other hazards

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]  |
|------------------|--|---------|--|
| Coranol          | CAS-No.: 83926-73-2<br>EC-No.: 420-630-3<br>EC Index-No.: 603-174-00-1 | 10 – 25 | Eye Dam. 1, H318<br>Aquatic Chronic 2, H411                      |
| Citronellal      | CAS-No.: 106-23-0<br>EC-No.: 203-376-6                                 | 1 – 10  | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1B, H317 |
| Diethyl malonate | CAS-No.: 105-53-3<br>EC-No.: 203-305-9                                 | 1 – 10  | Eye Irrit. 2, H319   |
| Violiff          | CAS-No.: 87731-18-8<br>EC-No.: 401-620-8<br>EC Index-No.: 006-071-00-4 | 1 – 10  | Skin Sens. 1, H317   |

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| Name                                   | Product identifier  | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP]  |
|--|---|---------|--|
| Isopulegol                             | CAS-No.: 89-79-2<br>EC-No.: 201-940-6                                   | 1 – 10  | Acute Tox. 4 (Oral), H302<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319   |
| 6,6-dimethoxy-2,5,5-trimethylhex-2-ene | CAS-No.: 67674-46-8<br>EC-No.: 266-885-2<br>REACH-no: 01-2120741268-52  | 1 – 10  | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Aquatic Chronic 3, H412   |
| Citronellyl acetate                    | CAS-No.: 150-84-5<br>EC-No.: 205-775-0                                  | 1 – 10  | Skin Irrit. 2, H315<br>Aquatic Chronic 2, H411   |
| Hexahydro-tetramethyl-benzopyran       | CAS-No.: 72429-08-4<br>EC-No.: 276-659-5                                | 1 – 10  | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319  |
| Dodecanal                              | CAS-No.: 112-54-9<br>EC-No.: 203-983-6<br>REACH-no: 01-2119969441-33    | 1 – 10  | Skin Sens. 1B, H317<br>Aquatic Chronic 2, H411   |
| Opalene                                | EC-No.: 941-474-7   | 1 – 10  | Skin Irrit. 2, H315<br>Skin Sens. 1B, H317<br>Aquatic Acute 1, H400<br>Aquatic Chronic 3, H412   |
| Prismantol                             | CAS-No.: 122760-84-3<br>EC-No.: 406-330-5<br>EC Index-No.: 603-123-00-3 | 1 – 10  | Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Aquatic Chronic 2, H411   |
| 4-methyl-3-decen-5-ol                  | CAS-No.: 81782-77-6<br>EC-No.: 279-815-0<br>REACH-no: 01-2119983528-21  | 1 – 10  | Aquatic Acute 1, H400<br>Aquatic Chronic 2, H411   |
| Dipentene                              | CAS-No.: 138-86-3<br>EC-No.: 205-341-0<br>EC Index-No.: 601-029-00-7    | 1 – 10  | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Asp. Tox. 1, H304<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 |
| Eucalyptol                             | CAS-No.: 470-82-6<br>EC-No.: 207-431-5                                  | 1 – 10  | Flam. Liq. 3, H226<br>Skin Sens. 1B, H317  |
| Carvone                                | CAS-No.: 99-49-0<br>EC-No.: 218-827-2<br>EC Index-No.: 606-148-00-8     | 1 – 10  | Skin Sens. 1, H317   |
| Methyl cinnamic aldehyde               | CAS-No.: 101-39-3<br>EC-No.: 202-938-8                                  | 0.1 – 1 | Skin Sens. 1B, H317  |
| Dimethylcyclohex-3-ene-1-carbaldehyde  | CAS-No.: 27939-60-2<br>EC-No.: 248-742-6                                | 0.1 – 1 | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1B, H317<br>Aquatic Chronic 2, H411  |
| Dihydroeugenol                         | CAS-No.: 2785-87-7<br>EC-No.: 220-499-0                                 | 0.1 – 1 | Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Skin Sens. 1B, H317<br>STOT SE 3, H335  |
| Eugenol                                | CAS-No.: 97-53-0<br>EC-No.: 202-589-1                                   | 0.1 – 1 | Acute Tox. 4 (Oral), H302<br>Eye Irrit. 2, H319<br>Skin Sens. 1B, H317   |

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| Name                   | Product identifier   | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP]      |
|------------------------|--|---------|--|
| Geranyl acetate        | CAS-No.: 105-87-3<br>EC-No.: 203-341-5<br>REACH-no: 01-2119973480-35 | 0.1 – 1 | Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Aquatic Chronic 3, H412 |
| 4-prop-1-enylveratrole | CAS-No.: 93-16-3<br>EC-No.: 202-224-6<br>REACH-no: 01-2120223689-47  | 0.1 – 1 | 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            | : If you feel unwell, seek medical advice.   |
| 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. Take off contaminated clothing. If skin irritation or rash 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.   |
| Self protection of the first-aider    | : First aid workers will be equipped with suitable personal protective equipment.  |

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

|                                     |  |
|-------------------------------------|--|
| Symptoms/effects after inhalation   | : None under normal conditions.                    |
| Symptoms/effects after skin contact | : Irritation. May cause an allergic skin reaction. |
| Symptoms/effects after eye contact  | : Serious damage to eyes.                          |
| Symptoms/effects after ingestion    | : None under normal conditions.                    |

#### 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. |
| Unsuitable extinguishing media | : Do not use a heavy water stream.               |

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

|  |                                |
|--|--------------------------------|
| Fire hazard                                      | : No fire hazard.              |
| Explosion hazard                                 | : No direct explosion hazard.  |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |

#### 5.3. Advice for firefighters

|                                |   |
|--------------------------------|---|
| Firefighting instructions      | : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.              |

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### SECTION 6: Accidental release measures

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

General measures : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters.  
Absorb spillage to prevent material damage.

##### For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.  
Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.

##### 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".  
Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

#### 6.2. Environmental precautions

Avoid release to the environment.

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

For containment : Collect spillage. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.  
Methods for cleaning up : Take up liquid spill into absorbent material.  
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

Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.  
Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapours/spray.  
Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Technical measures : Keep in a cool, well-ventilated place away from heat.  
Storage conditions : Keep cool. Protect from sunlight.  
Packaging materials : Always store product in container of same material as original container.

#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 8.2. Exposure controls

##### Appropriate engineering controls

##### Appropriate engineering controls:

Ensure good ventilation of the work station.

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### Personal protection equipment

#### Personal protective equipment:

Wear recommended personal protective equipment.

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



### Eye and face protection

#### Eye protection:

Safety glasses

### Skin protection

#### Skin and body protection:

Wear suitable protective clothing

#### Hand protection:

Protective gloves

### Respiratory protection

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

### Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

|   |                            |
|---|----------------------------|
| Physical state                                  | : Liquid                   |
| Colour  | : light yellow. Green.     |
| Odour   | : Not available            |
| Odour threshold                                 | : Not available            |
| Melting point                                   | : Not applicable           |
| Freezing point                                  | : Not available            |
| Boiling point                                   | : Not available            |
| Flammability                                    | : Non flammable.           |
| Lower explosion limit                           | : Not available            |
| Upper explosion limit                           | : Not available            |
| Flash point                                     | : 84 °C                    |
| Auto-ignition temperature                       | : Not available            |
| Decomposition temperature                       | : Not available            |
| pH  | : Not available            |
| Viscosity, kinematic                            | : Not available            |
| Solubility                                      | : Not available            |
| Partition coefficient n-octanol/water (Log Kow) | : Not available            |
| Vapour pressure                                 | : 0.1 mm Hg Temp.: 25 °C   |
| Vapour pressure at 50°C                         | : Not available            |
| Density   | : Not available            |
| Relative density                                | : 0.92 – 0.93 Temp.: 20 °C |
| Relative vapour density at 20°C                 | : Not available            |
| Particle characteristics                        | : Not applicable           |

### 9.2. Other information

No additional information available

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### 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.

#### 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

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

| <b>Coranol (83926-73-2)</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)) |
| <b>Citronellal (106-23-0)</b>                              |  |
| LD50 dermal rat  | > 2000 mg/kg bodyweight Animal: rat  |
| LD50 dermal rabbit   | 2500 – 5000 mg/kg bodyweight Animal: rabbit  |
| <b>Diethyl malonate (105-53-3)</b>                         |  |
| LD50 oral rat  | 15794 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: other:  |
| LD50 dermal rabbit   | > 16960 mg/kg bodyweight Animal: rabbit, Animal sex: male, Guideline: other:   |
| <b>Violiff (87731-18-8)</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)) |
| <b>Isopulegol (89-79-2)</b>                                |  |
| LD50 oral rat  | ≈ 936 mg/kg bodyweight Animal: rat   |
| <b>6,6-dimethoxy-2,5,5-trimethylhex-2-ene (67674-46-8)</b> |  |
| LD50 oral  | 4180 mg/kg bodyweight Animal: , Guideline: other:  |
| <b>Citronellyl acetate (150-84-5)</b>                      |  |
| LD50 oral rat  | 6800 mg/kg bodyweight Animal: rat  |
| LD50 dermal rabbit   | > 2000 mg/kg bodyweight Animal: rabbit   |

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| <b>Dodecanal (112-54-9)</b>                               |  |
|---|--|
| LD50 oral rat   | 23100 mg/kg bodyweight Animal: rat   |
| LD50 dermal rabbit  | > 2000 mg/kg bodyweight Animal: rabbit   |
| <b>Prismantol (122760-84-3)</b>                           |  |
| LD50 oral   | 4400 mg/kg bodyweight Animal: other., Guideline: other., 95% CL: 3000 - 6800   |
| <b>4-methyl-3-decen-5-ol (81782-77-6)</b>                 |  |
| LD50 oral rat   | > 8000 mg/kg   |
| <b>Dimethylcyclohex-3-ene-1-carbaldehyde (27939-60-2)</b> |  |
| LD50 oral rat   | 3900 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 2900 - 5100                                  |
| LD50 oral   | 3900 mg/kg bodyweight Animal: , 95% CL: 2900 - 5100  |
| LD50 dermal rabbit  | > 5000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)  |
| <b>Dihydroeugenol (2785-87-7)</b>                         |  |
| LD50 oral rat   | 2600 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 1900 - 3600                                  |
| LD50 dermal rat   | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)   |
| <b>Eugenol (97-53-0)</b>                                  |  |
| LD50 oral rat   | > 2000 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method)        |
| LD50 oral   | 1500 – 1500 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method) |
| <b>Geranyl acetate (105-87-3)</b>                         |  |
| LD50 oral rat   | 6330 mg/kg bodyweight Animal: rat, 95% CL: 5450 - 7340   |
| <b>4-prop-1-enylveratrole (93-16-3)</b>                   |  |
| LD50 oral rat   | 2500 mg/kg   |
| LD50 dermal rabbit  | > 5000 mg/kg   |
| Skin corrosion/irritation                                 | : Causes skin irritation.  |
| Serious eye damage/irritation                             | : Causes serious eye damage.   |
| Respiratory or skin sensitisation                         | : May cause an allergic skin reaction.   |
| Germ cell mutagenicity                                    | : Not classified   |
| Carcinogenicity   | : Not classified   |
| <b>Citronellal (106-23-0)</b>                             |  |
| NOAEL (chronic, oral, animal/male, 2 years)               | 60 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)     |
| <b>Dihydroeugenol (2785-87-7)</b>                         |  |
| NOAEL (chronic, oral, animal/male, 2 years)               | 300 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 451 (Carcinogenicity Studies)                                |
| NOAEL (chronic, oral, animal/female, 2 years)             | 150 mg/kg bodyweight Animal: mouse, Animal sex: female, Guideline: OECD Guideline 451 (Carcinogenicity Studies)                              |
| Reproductive toxicity                                     | : Not classified   |

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| <b>6,6-dimethoxy-2,5,5-trimethylhex-2-ene (67674-46-8)</b> |   |
|--|---|
| NOAEL (animal/female, F0/P)                                | 615 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)   |
| <b>Dodecanal (112-54-9)</b>                                |   |
| LOAEL (animal/female, F0/P)                                | 1500 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: other:  |
| <b>Dimethylcyclohex-3-ene-1-carbaldehyde (27939-60-2)</b>  |   |
| NOAEL (animal/male, F0/P)                                  | 150 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test)  |
| STOT-single exposure                                       | : Not classified  |
| <b>Dihydroeugenol (2785-87-7)</b>                          |   |
| STOT-single exposure                                       | May cause respiratory irritation.   |
| STOT-repeated exposure                                     | : Not classified  |
| <b>Coranol (83926-73-2)</b>                                |   |
| NOAEL (oral, rat, 90 days)                                 | 1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)  |
| <b>Citronellal (106-23-0)</b>                              |   |
| LOAEC (inhalation, rat, gas, 90 days)                      | 68 ppm Animal: rat, Animal sex: female  |
| NOAEL (oral, rat, 90 days)                                 | 100 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)   |
| NOAEC (inhalation, rat, gas, 90 days)                      | 34 ppm Animal: rat, Animal sex: female  |
| NOAEL (subchronic, oral, animal/male, 90 days)             | 60 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)  |
| <b>Violiff (87731-18-8)</b>                                |   |
| NOAEL (oral, rat, 90 days)                                 | ≥ 500 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)   |
| <b>6,6-dimethoxy-2,5,5-trimethylhex-2-ene (67674-46-8)</b> |   |
| NOAEL (oral, rat, 90 days)                                 | 386 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)   |
| <b>Eucalyptol (470-82-6)</b>                               |   |
| NOAEL (oral, rat, 90 days)                                 | 600 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: other., Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents), Guideline: EPA OPPTS 870.3150 (90-Day Oral Toxicity in Non-rodents) |
| <b>Dihydroeugenol (2785-87-7)</b>                          |   |
| NOAEL (subchronic, oral, animal/male, 90 days)             | 300 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)   |
| NOAEL (subchronic, oral, animal/female, 90 days)           | 600 mg/kg bodyweight Animal: mouse, Animal sex: female, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)   |
| <b>Eugenol (97-53-0)</b>                                   |   |
| NOAEL (subchronic, oral, animal/male, 90 days)             | ≥ 900 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: other:   |
| NOAEL (subchronic, oral, animal/female, 90 days)           | 450 mg/kg bodyweight Animal: mouse, Animal sex: female, Guideline: other:   |

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### Geranyl acetate (105-87-3)

NOAEL (oral, rat, 90 days) : 2000 mg/kg bodyweight Animal: rat, Guideline: other:

Aspiration hazard : Not classified

### 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Toxic to aquatic life with long lasting effects.

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

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

### Coranol (83926-73-2)

LC50 - Fish [1] : 13 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)

EC50 - Crustacea [1] : 3.8 mg/l Test organisms (species): Daphnia magna

EC50 72h - Algae [1] : 25 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

### Citronellal (106-23-0)

LC50 - Fish [1] : ≈ 22 mg/l Test organisms (species): Leuciscus idus

EC50 - Crustacea [1] : 8.7 mg/l Test organisms (species): Daphnia magna

EC50 72h - Algae [1] : 13.33 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

EC50 72h - Algae [2] : 6.74 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

### Diethyl malonate (105-53-3)

EC50 - Crustacea [1] : 202.3 mg/l Test organisms (species): Daphnia magna

EC50 72h - Algae [1] : 508.2 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

EC50 72h - Algae [2] : > 800 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

### Violiff (87731-18-8)

LC50 - Fish [1] : 22 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)

EC50 - Crustacea [1] : 21 mg/l Test organisms (species): Daphnia magna

EC50 72h - Algae [1] : 8.18 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)

### Isopulegol (89-79-2)

EC50 - Crustacea [1] : 53.2 mg/l Test organisms (species): Daphnia magna

EC50 72h - Algae [1] : 50.6 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)

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| <b>6,6-dimethoxy-2,5,5-trimethylhex-2-ene (67674-46-8)</b> |   |
|--|---|
| EC50 - Crustacea [1]                                       | 50.7 mg/l Test organisms (species): <i>Daphnia magna</i>  |
| EC50 72h - Algae [1]                                       | 13 mg/l Test organisms (species): <i>Raphidocelis subcapitata</i> (previous names: <i>Pseudokirchneriella subcapitata</i> , <i>Selenastrum capricornutum</i> )      |
| EC50 72h - Algae [2]                                       | 5.2 mg/l Test organisms (species): <i>Raphidocelis subcapitata</i> (previous names: <i>Pseudokirchneriella subcapitata</i> , <i>Selenastrum capricornutum</i> )     |
| <b>Citronellyl acetate (150-84-5)</b>                      |   |
| LC50 - Fish [1]  | 6.1 mg/l Test organisms (species): <i>Danio rerio</i> (previous name: <i>Brachydanio rerio</i> )  |
| EC50 - Crustacea [1]                                       | 3.48 mg/l Test organisms (species): <i>Daphnia magna</i>  |
| EC50 - Crustacea [2]                                       | 4.97 mg/l Test organisms (species): <i>Daphnia magna</i>  |
| EC50 72h - Algae [1]                                       | > 7.2 mg/l Test organisms (species): <i>Desmodesmus subspicatus</i> (previous name: <i>Scenedesmus subspicatus</i> )  |
| <b>Dodecanal (112-54-9)</b>                                |   |
| LC50 - Fish [1]  | ≈ 2.6 mg/l Test organisms (species): <i>Oncorhynchus mykiss</i> (previous name: <i>Salmo gairdneri</i> )  |
| EC50 - Crustacea [1]                                       | > 0.27 mg/l Test organisms (species): <i>Daphnia magna</i>  |
| EC50 72h - Algae [1]                                       | > 0.048 mg/l Test organisms (species): <i>Raphidocelis subcapitata</i> (previous names: <i>Pseudokirchneriella subcapitata</i> , <i>Selenastrum capricornutum</i> ) |
| EC50 72h - Algae [2]                                       | > 0.35 mg/l Test organisms (species): <i>Raphidocelis subcapitata</i> (previous names: <i>Pseudokirchneriella subcapitata</i> , <i>Selenastrum capricornutum</i> )  |
| NOEC chronic fish  | > 0.23 mg/l Test organisms (species): <i>Danio rerio</i>  |
| <b>Prismantol (122760-84-3)</b>                            |   |
| LC50 - Fish [1]  | 16 mg/l Test organisms (species): <i>Oncorhynchus mykiss</i> (previous name: <i>Salmo gairdneri</i> )   |
| EC50 - Other aquatic organisms [1]                         | 45 mg/l Test organisms (species): other aquatic crustacea:  |
| EC50 72h - Algae [1]                                       | 5.9 mg/l Test organisms (species): other:   |
| EC50 72h - Algae [2]                                       | 12 mg/l Test organisms (species): other:  |
| <b>4-methyl-3-decen-5-ol (81782-77-6)</b>                  |   |
| LC50 - Fish [1]  | 3 mg/l Test organisms (species): <i>Pimephales promelas</i>   |
| EC50 - Crustacea [1]                                       | 0.4 mg/l Test organisms (species): <i>Daphnia magna</i>   |
| EC50 72h - Algae [1]                                       | 3.6 mg/l Test organisms (species): <i>Raphidocelis subcapitata</i> (previous names: <i>Pseudokirchneriella subcapitata</i> , <i>Selenastrum capricornutum</i> )     |
| EC50 96h - Algae [1]                                       | 3.8 mg/l Test organisms (species): <i>Raphidocelis subcapitata</i> (previous names: <i>Pseudokirchneriella subcapitata</i> , <i>Selenastrum capricornutum</i> )     |
| NOEC chronic algae   | 1.3 mg/l Test organisms (species): <i>Pseudokirchneriella subcapitata</i>   |
| <b>Eucalyptol (470-82-6)</b>                               |   |
| LC50 - Fish [1]  | 57 mg/l Test organisms (species): <i>Oncorhynchus mykiss</i> (previous name: <i>Salmo gairdneri</i> )   |
| EC50 - Crustacea [1]                                       | > 100 mg/l Test organisms (species): <i>Daphnia magna</i>   |
| EC50 72h - Algae [1]                                       | > 74 mg/l Test organisms (species): <i>Raphidocelis subcapitata</i> (previous names: <i>Pseudokirchneriella subcapitata</i> , <i>Selenastrum capricornutum</i> )    |
| EC50 96h - Algae [1]                                       | > 74 mg/l Test organisms (species): <i>Raphidocelis subcapitata</i> (previous names: <i>Pseudokirchneriella subcapitata</i> , <i>Selenastrum capricornutum</i> )    |

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| <b>Dimethylcyclohex-3-ene-1-carbaldehyde (27939-60-2)</b> |  |
|---|--|
| LC50 - Fish [1]   | 15 mg/l Test organisms (species): <i>Oryzias latipes</i>   |
| EC50 - Crustacea [1]                                      | 7.74 mg/l Test organisms (species): <i>Daphnia magna</i>   |
| EC50 72h - Algae [1]                                      | 22.8 mg/l Test organisms (species): <i>Raphidocelis subcapitata</i> (previous names: <i>Pseudokirchneriella subcapitata</i> , <i>Selenastrum capricornutum</i> ) |
| <b>Dihydroeugenol (2785-87-7)</b>                         |  |
| LC50 - Fish [1]   | 4.4 mg/l Test organisms (species): other:  |
| EC50 - Other aquatic organisms [1]                        | 3.5 mg/l Test organisms (species): other:  |
| EC50 72h - Algae [1]                                      | 7.4 mg/l Test organisms (species): other:  |
| EC50 96h - Algae [1]                                      | 13 mg/l Test organisms (species): other:   |
| <b>Eugenol (97-53-0)</b>                                  |  |
| LC50 - Fish [1]   | 13 mg/l Test organisms (species): <i>Danio rerio</i> (previous name: <i>Brachydanio rerio</i> )  |
| EC50 - Crustacea [1]                                      | 1.05 mg/l Test organisms (species): <i>Daphnia magna</i>   |
| <b>Geranyl acetate (105-87-3)</b>                         |  |
| LC50 - Fish [1]   | 68.12 mg/l Test organisms (species): <i>Leuciscus idus</i>   |
| EC50 - Crustacea [1]                                      | 14.1 mg/l Test organisms (species): <i>Daphnia magna</i>   |
| EC50 72h - Algae [1]                                      | 3.72 mg/l Test organisms (species): <i>Desmodesmus subspicatus</i> (previous name: <i>Scenedesmus subspicatus</i> )  |
| <b>4-prop-1-enylveratrole (93-16-3)</b>                   |  |
| EC50 - Crustacea [1]                                      | > 10 – ≤ 100 mg/l Species: <i>Daphnia magna</i> , Duration of exposure: 48 h, OECD Guideline 202   |

## 12.2. Persistence and degradability

| <b>Lime Leaves (IFF)</b>                                   |                        |
|--|------------------------|
| Persistence and degradability                              | Not rapidly degradable |
| <b>Coranol (83926-73-2)</b>                                |                        |
| Persistence and degradability                              | Not rapidly degradable |
| <b>Citronellal (106-23-0)</b>                              |                        |
| Persistence and degradability                              | Not rapidly degradable |
| <b>Diethyl malonate (105-53-3)</b>                         |                        |
| Persistence and degradability                              | Not rapidly degradable |
| <b>Violiff (87731-18-8)</b>                                |                        |
| Persistence and degradability                              | Not rapidly degradable |
| <b>Isopulegol (89-79-2)</b>                                |                        |
| Persistence and degradability                              | Not rapidly degradable |
| <b>6,6-dimethoxy-2,5,5-trimethylhex-2-ene (67674-46-8)</b> |                        |
| Persistence and degradability                              | Not rapidly degradable |
| <b>Citronellyl acetate (150-84-5)</b>                      |                        |
| Persistence and degradability                              | Not rapidly degradable |

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|   |                        |
|---|------------------------|
| <b>Hexahydro-tetramethyl-benzopyran (72429-08-4)</b>      |                        |
| Persistence and degradability                             | Not rapidly degradable |
| <b>Dodecanal (112-54-9)</b>                               |                        |
| Persistence and degradability                             | Not rapidly degradable |
| <b>Opalene</b>  |                        |
| Persistence and degradability                             | Not rapidly degradable |
| <b>Prismantol (122760-84-3)</b>                           |                        |
| Persistence and degradability                             | Not rapidly degradable |
| <b>4-methyl-3-decen-5-ol (81782-77-6)</b>                 |                        |
| Persistence and degradability                             | Not rapidly degradable |
| <b>Dipentene (138-86-3)</b>                               |                        |
| Persistence and degradability                             | Not rapidly degradable |
| <b>Eucalyptol (470-82-6)</b>                              |                        |
| Persistence and degradability                             | Not rapidly degradable |
| <b>Carvone (99-49-0)</b>                                  |                        |
| Persistence and degradability                             | Not rapidly degradable |
| <b>Methyl cinnamic aldehyde (101-39-3)</b>                |                        |
| Persistence and degradability                             | Not rapidly degradable |
| <b>Dimethylcyclohex-3-ene-1-carbaldehyde (27939-60-2)</b> |                        |
| Persistence and degradability                             | Not rapidly degradable |
| <b>Dihydroeugenol (2785-87-7)</b>                         |                        |
| Persistence and degradability                             | Not rapidly degradable |
| <b>Eugenol (97-53-0)</b>                                  |                        |
| Persistence and degradability                             | Not rapidly degradable |
| <b>Geranyl acetate (105-87-3)</b>                         |                        |
| Persistence and degradability                             | Not rapidly degradable |
| <b>4-prop-1-enylveratrole (93-16-3)</b>                   |                        |
| Persistence and degradability                             | Not rapidly degradable |

### 12.3. Bioaccumulative potential

No additional information available

### 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

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### 12.7. Other adverse effects

No additional information available

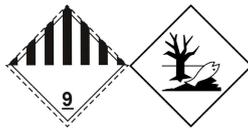
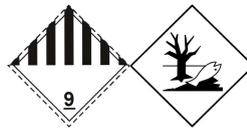
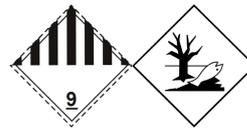
## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

|  |   |
|--|---|
| Regional waste regulation                  | : Disposal must be done according to official regulations.                                    |
| 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 | : Disposal must be done according to official regulations.                                    |
| Additional information                     | : Do not re-use empty containers.   |

## 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 3082  | UN 3082   | UN 3082   | UN 3082   | UN 3082   |
| <b>14.2. UN proper shipping name</b>   |   |   |   |   |
| ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Lime Leaves (IFF))                      | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Lime Leaves (IFF))                                       | Environmentally hazardous substance, liquid, n.o.s. (Lime Leaves (IFF))                 | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Lime Leaves (IFF))                 | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Lime Leaves (IFF))                 |
| <b>Transport document description</b>  |   |   |   |   |
| UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Lime Leaves (IFF)), 9, III, (-) | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Lime Leaves (IFF)), 9, III, MARINE POLLUTANT     | UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Lime Leaves (IFF)), 9, III | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Lime Leaves (IFF)), 9, III | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Lime Leaves (IFF)), 9, III |
| <b>14.3. Transport hazard class(es)</b>  |   |   |   |   |
| 9  | 9   | 9   | 9   | 9   |
|           |                            |      |     |    |
| <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<br>EmS-No. (Fire): F-A<br>EmS-No. (Spillage): S-F | Dangerous for the environment: Yes  | Dangerous for the environment: Yes  | Dangerous for the environment: Yes  |
| No supplementary information available   |   |   |   |   |

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### 14.6. Special precautions for user

#### Overland transport

|   |   |
|---|---|
| Classification code (ADR)   | : M6  |
| Special provisions (ADR)  | : 274, 335, 375, 601, 650   |
| 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  |
| 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) : -

#### Transport by sea

|                                   |                      |
|-----------------------------------|----------------------|
| Special provisions (IMDG)         | : 274, 335, 375, 969 |
| Limited quantities (IMDG)         | : 5 L                |
| Excepted quantities (IMDG)        | : E1                 |
| Packing instructions (IMDG)       | : LP01, P001         |
| Special packing provisions (IMDG) | : PP1                |
| IBC packing instructions (IMDG)   | : IBC03              |
| Tank instructions (IMDG)          | : T4                 |
| Tank special provisions (IMDG)    | : TP1, TP29          |
| 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, A215 |
| ERG code (IATA)                              | : 9L                    |

#### Inland waterway transport

|                                   |                           |
|-----------------------------------|---------------------------|
| Classification code (ADN)         | : M6                      |
| Special provisions (ADN)          | : 274, 335, 375, 601, 650 |
| Limited quantities (ADN)          | : 5 L                     |
| Excepted quantities (ADN)         | : E1                      |
| Carriage permitted (ADN)          | : T                       |
| Equipment required (ADN)          | : PP                      |
| Number of blue cones/lights (ADN) | : 0                       |

#### Rail transport

|                           |                           |
|---------------------------|---------------------------|
| Classification code (RID) | : M6                      |
| Special provisions (RID)  | : 274, 335, 375, 601, 650 |
| Limited quantities (RID)  | : 5L                      |
| Excepted quantities (RID) | : E1                      |

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|   |                           |
|---|---------------------------|
| Packing instructions (RID)  | : P001, IBC03, LP01, R001 |
| Special packing provisions (RID)  | : PP1                     |
| 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)  | : LGBV                    |
| Transport category (RID)  | : 3                       |
| Special provisions for carriage – Packages (RID)                        | : W12                     |
| Special provisions for carriage - Loading, unloading and handling (RID) | : CW13, CW31              |
| Colis express (express parcels) (RID)                                   | : CE8                     |
| Hazard identification number (RID)                                      | : 90                      |

### 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)

| EU restriction list (REACH Annex XVII) |   |   |
|--|---|---|
| Reference code                         | Applicable on   | Entry title or description  |
| 3(a)                                   | Dipentene ; Eucalyptol  | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F          |
| 3(b)                                   | Lime Leaves (IFF) ;<br>Coranol ; Citronellal ;<br>Diethyl malonate ; Violiff ;<br>Isopulegol ; 6,6-dimethoxy-2,5,5-trimethylhex-2-ene ;<br>Citronellyl acetate ;<br>Hexahydro-tetramethylbenzopyran ; Dodecanal ;<br>Opalene ; Dipentene ;<br>Eucalyptol ; Carvone ;<br>Methyl cinnamic aldehyde ;<br>Dimethylcyclohex-3-ene-1-carbaldehyde ;<br>Dihydroeugenol ; Eugenol ;<br>Geranyl acetate ; 4-prop-1-enylveratrole | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10 |
| 3(c)                                   | Lime Leaves (IFF) ;<br>Coranol ; 6,6-dimethoxy-2,5,5-trimethylhex-2-ene ;<br>Citronellyl acetate ;<br>Dodecanal ; Opalene ; 4-methyl-3-decen-5-ol ;<br>Dipentene ;<br>Dimethylcyclohex-3-ene-1-carbaldehyde ; Geranyl acetate   | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1   |

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### 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 no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

### 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

### 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)

### National regulations

#### Netherlands

SZW-lijst van kankerverwekkende stoffen : 6,6-dimethoxy-2,5,5-trimethylhex-2-ene is listed

SZW-lijst van mutagene stoffen : 6,6-dimethoxy-2,5,5-trimethylhex-2-ene is listed

SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed

SZW-lijst van reprotoxische stoffen – : None of the components are listed

Vruchtbaarheid

SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

### Abbreviations and acronyms:

|         |   |
|---------|---|
| ACGIH   | American Conference of Governmental Industrial Hygienists                                       |
| 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)   |
| CAS-No. | Chemical Abstracts Service number   |
| CLP     | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008                     |
| COD     | Chemical oxygen demand (COD)  |
| CSA     | Chemical safety assessment  |
| DMEL    | Derived Minimal Effect level  |
| DNEL    | Derived-No Effect Level   |

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| Abbreviations and acronyms: |  |
|-----------------------------|--|
| EC-No.                      | European Community number  |
| EC50                        | Median effective concentration   |
| ED                          | Endocrine disruptor  |
| EN                          | European Standard  |
| EWC                         | European waste catalogue   |
| 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   |
| Log Kow                     | Partition coefficient n-octanol/water (Log Kow)                              |
| Log Pow                     | Partition coefficient n-octanol/water (Log Pow)                              |
| MAK                         | maximum workplace concentration  |
| NOAEC                       | No-Observed Adverse Effect Concentration                                     |
| NOAEL                       | No-Observed Adverse Effect Level   |
| NOEC                        | No-Observed Effect Concentration   |
| N.O.S.                      | Not Otherwise Specified  |
| OECD                        | Organisation for Economic Co-operation and Development                       |
| OEL                         | Occupational Exposure Limit  |
| OSHA                        | Occupational Safety Health Administration                                    |
| PBT                         | Persistent Bioaccumulative Toxic   |
| PNEC                        | Predicted No-Effect Concentration  |
| PPE                         | Personal protection equipment  |
| RID                         | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS                         | Safety Data Sheet  |
| STP                         | Sewage treatment plant   |
| TF                          | Technical function   |
| ThOD                        | Theoretical oxygen demand (ThOD)   |
| TLM                         | Median Tolerance Limit   |
| TWA                         | Time Weighted Average  |
| VOC                         | Volatile Organic Compounds   |
| vPvB                        | Very Persistent and Very Bioaccumulative                                     |
| UFI                         | Unique Formula Identifier  |

| 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 |

# Lime Leaves (IFF)

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Full text of H- and EUH-statements: |  |
|-------------------------------------|--|
| Aquatic Chronic 2                   | Hazardous to the aquatic environment – Chronic Hazard, Category 2                          |
| Aquatic Chronic 3                   | Hazardous to the aquatic environment – Chronic Hazard, Category 3                          |
| Asp. Tox. 1                         | Aspiration hazard, Category 1  |
| Eye Dam. 1                          | Serious eye damage/eye irritation, Category 1  |
| Eye Irrit. 2                        | Serious eye damage/eye irritation, Category 2  |
| Flam. Liq. 3                        | Flammable liquids, Category 3  |
| Skin Irrit. 2                       | Skin corrosion/irritation, Category 2  |
| Skin Sens. 1                        | Skin sensitisation, Category 1   |
| Skin Sens. 1B                       | Skin sensitisation, category 1B  |
| STOT SE 3                           | Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation |
| H226                                | Flammable liquid and vapour.   |
| H302                                | Harmful if swallowed.  |
| H304                                | May be fatal if swallowed and enters airways.  |
| H315                                | Causes skin irritation.  |
| H317                                | May cause an allergic skin reaction.   |
| H318                                | Causes serious eye damage.   |
| H319                                | Causes serious eye irritation.   |
| H335                                | May cause respiratory 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.   |

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.