

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

#### 1.1. Product identifier

|               |                                              |
|---------------|----------------------------------------------|
| Product form  | : Mixture                                    |
| Product name  | : Grape Stomper Solvent Free Terpene Profile |
| Product code  | : TPBL117                                    |
| Product group | : Trade product                              |

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

##### 1.2.1. Relevant identified uses

Consumer use; professional use — aromatic essential oil.

##### 1.2.2. Uses advised against

Any use other than as intended and according to label instructions; not for ingestion.

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

|                                                                                                           |                                                                                                                                                            |
|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Phytoca Trading ApS<br>Bredesvinget 4<br>2830 Virum<br>Denmark<br>Contact: support@extractconsultants.com | EXTRACT CONSULTANTS, LLC.<br>TERPENES - FLAVORS - BASES<br>2150 INDUSTRIAL DR, NILES MI 49120<br>www.extractconsultants.com<br>INFORMATION: 1-888-541-9089 |
|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### 1.4. Emergency telephone number

|                  |                                                                                              |
|------------------|----------------------------------------------------------------------------------------------|
| Emergency number | CHEMTREC - USA: 800-424-9300 International: +1 703-527-3887 / 1-800-424-9300<br>CCN: 1025270 |
|------------------|----------------------------------------------------------------------------------------------|

### SECTION 2: Hazards identification

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

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

|                                                                   |      |
|-------------------------------------------------------------------|------|
| Flammable liquids, Category 3                                     | H226 |
| Skin corrosion/irritation, Category 2                             | H315 |
| Serious eye damage/eye irritation, Category 2                     | H319 |
| Skin sensitisation, Category 1                                    | H317 |
| Aspiration hazard, Category 1                                     | H304 |
| Hazardous to the aquatic environment – Acute Hazard, Category 1   | H400 |
| Hazardous to the aquatic environment – Chronic Hazard, Category 1 | H410 |

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

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

Flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May be fatal if swallowed and enters airways. Very toxic to aquatic life with long lasting effects.

#### 2.2. Label elements

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

|                         |   |                                                                                     |                                                                                     |                                                                                      |                                                                                       |
|-------------------------|---|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Hazard pictograms (CLP) | : |  |  |  |  |
|                         |   | GHS02                                                                               | GHS07                                                                               | GHS08                                                                                | GHS09                                                                                 |
| Signal word (CLP)       | : | Danger                                                                              |                                                                                     |                                                                                      |                                                                                       |

# Grape Stomper Solvent Free Terpene Profile

## Safety Data Sheet

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

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Contains                       | : CINNAMYL ALCOHOL, NATURAL; MYRCENE BETA, NATURAL; beta-caryophyllene; D-limonene; alpha-pinene; beta-pinene; linalool; nerolidol (isomer unspecified); l-.alpha.-Pinene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Hazard statements (CLP)        | : H226 - Flammable liquid and vapour.<br>H304 - May be fatal if swallowed and enters airways.<br>H315 - Causes skin irritation.<br>H317 - May cause an allergic skin reaction.<br>H319 - Causes serious eye irritation.<br>H410 - Very toxic to aquatic life with long lasting effects.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Precautionary statements (CLP) | : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.<br>P233 - Keep container tightly closed.<br>P240 - Ground and bond container and receiving equipment.<br>P241 - Use explosion-proof electrical/ventilating/lighting equipment.<br>P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.<br>P264 - Wash hands, forearms and face thoroughly after handling.<br>P272 - Contaminated work clothing should not be allowed out of the workplace.<br>P273 - Avoid release to the environment.<br>P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.<br>P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.<br>P302+P352 - IF ON SKIN: Wash with plenty of water.<br>P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with 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>P321 - Specific treatment (see supplemental first aid instruction on this label).<br>P331 - Do NOT induce vomiting.<br>P332+P313 - If skin irritation occurs: Get medical advice/attention.<br>P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.<br>P337+P313 - If eye irritation persists: Get medical advice/attention.<br>P362+P364 - Take off contaminated clothing and wash it before reuse.<br>P370+P378 - In case of fire: Use media other than water to extinguish.<br>P391 - Collect spillage.<br>P403+P235 - Store in a well-ventilated place. Keep cool.<br>P405 - Store locked up.<br>P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. |

### 2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

| Component                                                                                     |                                                                                                     |
|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII  | CINNAMYL ALCOHOL (104-54-1), D-LIMONENE (5989-27-5), ALPHA-PINENE (80-56-8), BETA-PINENE (127-91-3) |
| Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII | CINNAMYL ALCOHOL (104-54-1), D-LIMONENE (5989-27-5), ALPHA-PINENE (80-56-8), BETA-PINENE (127-91-3) |

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

### 3.1. Substances

Not applicable

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### 3.2. Mixtures

| Name                                                                           | Product identifier                                                    | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP]                                                                                                        |
|--------------------------------------------------------------------------------|-----------------------------------------------------------------------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| D-LIMONENE<br>substance with national workplace exposure limit(s)<br>(DE, ES)  | CAS-No.: 5989-27-5<br>EC-No.: 227-813-5<br>EC Index-No.: 601-096-00-2 | 10 – 25 | 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                               |
| METHYL ANTHRANILATE                                                            | CAS-No.: 134-20-3<br>EC-No.: 205-132-4                                | 10 – 25 | Eye Irrit. 2, H319                                                                                                                                                     |
| BETA-CARYOPHYLLENE                                                             | CAS-No.: 87-44-5<br>EC-No.: 201-746-1                                 | 5 – 10  | Skin Sens. 1B, H317<br>Asp. Tox. 1, H304                                                                                                                               |
| ETHYL BUTYRATE                                                                 | CAS-No.: 105-54-4<br>EC-No.: 203-306-4                                | 5 – 10  | Flam. Liq. 3, H226<br>Aquatic Acute 1, H400                                                                                                                            |
| MYRCENE                                                                        | CAS-No.: 123-35-3<br>EC-No.: 204-622-5                                | 5 – 10  | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411                                                                              |
| LINALOOL                                                                       | CAS-No.: 78-70-6<br>EC-No.: 201-134-4<br>EC Index-No.: 603-235-00-2   | 5 – 10  | Eye Irrit. 2, H319<br>Skin Irrit. 2, H315<br>Skin Sens. 1B, H317                                                                                                       |
| ALPHA PINENE                                                                   | CAS-No.: 7785-26-4<br>EC-No.: 232-077-3                               | 5 – 10  | Flam. Liq. 3, H226<br>Acute Tox. 4 (Oral), H302<br>Skin Irrit. 2, H315<br>Skin Sens. 1B, H317<br>Asp. Tox. 1, H304<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 |
| BETA-PINENE<br>substance with national workplace exposure limit(s)<br>(BE, ES) | CAS-No.: 127-91-3<br>EC-No.: 204-872-5                                | 5 – 10  | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Skin Sens. 1B, H317<br>Asp. Tox. 1, H304<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410                              |
| NEROLIDOL                                                                      | CAS-No.: 7212-44-4<br>EC-No.: 230-597-5                               | 5 – 10  | Eye Irrit. 2, H319<br>Skin Sens. 1B, H317<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410                                                                          |
| CINNAMYL ALCOHOL                                                               | CAS-No.: 104-54-1<br>EC-No.: 203-212-3                                | 0.1 – 1 | Acute Tox. 4 (Oral), H302<br>Skin Irrit. 2, H315<br>Skin Sens. 1B, H317<br>Aquatic Acute 1, H400                                                                       |
| BETA-MYRCENE                                                                   | CAS-No.: 123-35-3<br>EC-No.: 204-622-5                                | 0.1 – 1 | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Asp. Tox. 1, H304<br>Aquatic Acute 1, H400<br>Aquatic Chronic 2, H411                               |

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| Name                                                                            | Product identifier                                                    | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP]                                                                                                        |
|---------------------------------------------------------------------------------|-----------------------------------------------------------------------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ALPHA-PINENE<br>substance with national workplace exposure limit(s)<br>(BE, ES) | CAS-No.: 80-56-8<br>EC-No.: 201-291-9                                 | 0.1 – 1 | Flam. Liq. 3, H226<br>Acute Tox. 4 (Oral), H302<br>Skin Irrit. 2, H315<br>Skin Sens. 1B, H317<br>Asp. Tox. 1, H304<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 |
| CITRAL<br>substance with national workplace exposure limit(s)<br>(BE, ES)       | CAS-No.: 5392-40-5<br>EC-No.: 226-394-6<br>EC Index-No.: 605-019-00-3 | < 0.1   | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, 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            | : Call a physician immediately.                                                                                                                                                  |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing.                                                                                                                 |
| First-aid measures after skin contact | : Rinse skin with water/shower. Take off immediately all contaminated clothing. If skin irritation 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. If eye irritation persists: Get medical advice/attention. |
| First-aid measures after ingestion    | : Do not induce vomiting. Call a physician immediately.                                                                                                                          |

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

|                                     |                                                    |
|-------------------------------------|----------------------------------------------------|
| Symptoms/effects after inhalation   | : No data available.                               |
| Symptoms/effects after skin contact | : Irritation. May cause an allergic skin reaction. |
| Symptoms/effects after eye contact  | : Eye irritation.                                  |
| Symptoms/effects after ingestion    | : Risk of lung oedema.                             |

### 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                                      | : Flammable liquid and vapour. |
| 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.

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

Protective equipment : Wear recommended personal protective equipment.  
Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.

##### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".  
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. Notify authorities if product enters sewers or public waters.  
Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

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. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Avoid contact with skin and eyes. 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 : Ground/bond container and receiving equipment.  
Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.  
Packaging materials : Always store product in container of same material as original container.

##### Switzerland

Storage class (LK) : LK 3 - Flammable liquids

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

No additional information available

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

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

| D-LIMONENE (5989-27-5)                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Germany - Occupational Exposure Limits (TRGS 900) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Local name                                        | (R)-p-Mentha-1,8-dien (D-Limonen)                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| AGW (OEL TWA)                                     | 28 mg/m³                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                                   | 5 ppm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Peak exposure limitation factor                   | 4(II)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Remark                                            | DFG,H,Sh,Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Regulatory reference                              | TRGS900                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Spain - Occupational Exposure Limits              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Local name                                        | d-Limoneno                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| VLA-ED (OEL TWA)                                  | 168 mg/m³ d-Limoneno                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                   | 30 ppm d-Limoneno                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Remark                                            | Entrada en vigor en 2018. Sen (Sensibilizante. Véase Apartado 6), Vía dérmica (Indica que, en las exposiciones a esta sustancia, la aportación por la vía cutánea puede resultar significativa para el contenido corporal total si no se adoptan medidas para prevenir la absorción. En estas situaciones, es aconsejable la utilización del control biológico para poder cuantificar la cantidad global absorbida del contaminante. Para más información véase el Apartado 5 de este documento). |
| Regulatory reference                              | Límites de Exposición Profesional para Agentes Químicos en España 2024. INSHT                                                                                                                                                                                                                                                                                                                                                                                                                     |
| ALPHA-PINENE (80-56-8)                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Belgium - Occupational Exposure Limits            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Local name                                        | Essence de térébenthine et monoterpènes sélectionnés # Terpentijn en geselecteerde monotерpenen                                                                                                                                                                                                                                                                                                                                                                                                   |
| OEL TWA                                           | 20 ppm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Regulatory reference                              | Koninklijk besluit/Arrêté royal 16/11/2023                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Spain - Occupational Exposure Limits              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Local name                                        | α-pineno (monoterpeno)                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| VLA-ED (OEL TWA)                                  | 113 mg/m³                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                                   | 20 ppm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Regulatory reference                              | Límites de Exposición Profesional para Agentes Químicos en España 2024. INSHT                                                                                                                                                                                                                                                                                                                                                                                                                     |
| BETA-PINENE (127-91-3)                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Belgium - Occupational Exposure Limits            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Local name                                        | Essence de térébenthine et monoterpènes sélectionnés # Terpentijn en geselecteerde monotерpenen                                                                                                                                                                                                                                                                                                                                                                                                   |
| OEL TWA                                           | 20 ppm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Regulatory reference                              | Koninklijk besluit/Arrêté royal 16/11/2023                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Spain - Occupational Exposure Limits              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Local name                                        | β-pineno (monoterpeno)                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

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| BETA-PINENE (127-91-3)                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| VLA-ED (OEL TWA)                           | 113 mg/m³                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                            | 20 ppm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Regulatory reference                       | Límites de Exposición Profesional para Agentes Químicos en España 2024. INSHT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| CITRAL (5392-40-5)                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Belgium - Occupational Exposure Limits     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Local name                                 | Citral (vapeur et aérosol) # Citral (damp en aérosol)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| OEL TWA                                    | 32 mg/m³                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                            | 5 ppm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Remark                                     | D: la mention "D" signifie que la résorption de l'agent, via la peau, les muqueuses ou les yeux, constitue une partie importante de l'exposition totale. Cette résorption peut se faire tant par contact direct que par présence de l'agent dans l'air. # D: de vermelding "D" betekent dat de opname van het agens via de huid, de slijmvliezen of de ogen een belangrijk deel van de totale blootstelling vormt. Deze opname kan het gevolg zijn van zowel direct contact als zijn aanwezigheid in de lucht.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Regulatory reference                       | Koninklijk besluit/Arrêté royal 16/11/2023                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Spain - Occupational Exposure Limits       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Local name                                 | Citral                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| VLA-ED (OEL TWA)                           | 5 ppm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Remark                                     | Vía dérmica (Indica que, en las exposiciones a esta sustancia, la aportación por la vía cutánea puede resultar significativa para el contenido corporal total si no se adoptan medidas para prevenir la absorción. En estas situaciones, es aconsejable la utilización del control biológico para poder cuantificar la cantidad global absorbida del contaminante), Sen (Sensibilizante), FIV (Fracción inhalable y vapor. La notación FIV señala a aquellos agentes químicos que se pueden presentar en el ambiente de trabajo, tanto en forma de materia particulada como vapor, por lo que las dos fases pueden coexistir, contribuyendo ambas a la exposición. Esta situación se puede dar, principalmente, en los siguientes casos: • Cuando el agente en cuestión tiene un valor "intermedio" de presión de vapor (en estos casos se tiene en cuenta la relación entre su concentración en el aire saturado de vapor y el valor del VLA-ED® y la nota se asigna, generalmente, cuando el cociente entre ambas cantidades se encuentra entre 0.1 y 10). • Por razón de la forma de uso del agente químico (por ejemplo, pulverización). • En los procesos que conlleven cambios importantes de temperatura que puedan afectar al estado físico del agente químico. • En los procesos en los que una fracción significativa del vapor puede disolverse o adsorberse en las partículas de otra sustancia, a semejanza de lo que ocurre con los agentes solubles en agua en ambientes con humedad elevada). |
| Regulatory reference                       | Límites de Exposición Profesional para Agentes Químicos en España 2024. INSHT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| USA - ACGIH - Occupational Exposure Limits |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Local name                                 | Citral                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| ACGIH® TLV® TWA                            | 5 ppm (IFV - Inhalable fraction and vapor)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Remark (ACGIH®)                            | TLV® Basis: Body weight eff; URT irr; eye dam. Notations: Skin; DSEN; A4 (Not classifiable as a Human Carcinogen)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Regulatory reference                       | ACGIH 2024                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

### 8.1.2. Recommended monitoring procedures

No additional information available

### 8.1.3. Air contaminants formed

No additional information available

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### 8.1.4. DNEL and PNEC

No additional information available

### 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

### 8.2.2. Personal protection equipment

#### Personal protective equipment:

Wear recommended personal protective equipment.

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



#### 8.2.2.1. Eye and face protection

##### Eye protection:

Chemical goggles or safety glasses

#### 8.2.2.2. Skin protection

##### Skin and body protection:

Wear suitable protective clothing

##### Hand protection:

Protective gloves

#### 8.2.2.3. Respiratory protection

##### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

#### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. 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                    | : COLORLESS TO YELLOW          |
| Odour                     | : Not available                |
| Odour threshold           | : Not available                |
| Melting point             | : Not applicable               |
| Freezing point            | : Not available                |
| Boiling point             | : Not available                |
| Flammability              | : Flammable liquid and vapour. |
| Lower explosion limit     | : Not available                |
| Upper explosion limit     | : Not available                |
| Flash point               | : 46 °C                        |
| Auto-ignition temperature | : Not available                |
| Decomposition temperature | : Not available                |

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|                                                 |                                         |
|-------------------------------------------------|-----------------------------------------|
| pH                                              | : Not applicable (not soluble in water) |
| Viscosity, kinematic                            | : Not available                         |
| Solubility                                      | : Insoluble.                            |
| Partition coefficient n-octanol/water (Log Kow) | : Not available                         |
| Vapour pressure                                 | : Not available                         |
| Vapour pressure at 50°C                         | : Not available                         |
| Density                                         | : Not available                         |
| Relative density                                | : 0.9141 (0.9041 – 0.9241)              |
| Relative vapour density at 20°C                 | : Not available                         |
| Particle characteristics                        | : Not applicable                        |

### 9.2. Other information

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

No additional information available

#### 9.2.2. Other safety characteristics

Refractive index : 1.48792 (1.47792 – 1.49792)

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Flammable liquid and vapour.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

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

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

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

## SECTION 11: Toxicological information

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

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

| ETHYL BUTYRATE (105-54-4)   |                                                                                                                                                                     |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LD50 oral rat               | > 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method), Remarks on results: other: |
| LD50 dermal rat             | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Remarks on results: other:                                              |
| LC50 Inhalation - Rat [ppm] | > 4000 ppm Animal: rat, Guideline: other:, Remarks on results: other:                                                                                               |
| CINNAMYL ALCOHOL (104-54-1) |                                                                                                                                                                     |
| LD50 oral                   | 2000 mg/kg bodyweight                                                                                                                                               |

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|                                       |                                                                                                                                      |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| <b>MYRCENE (123-35-3)</b>             |                                                                                                                                      |
| LD50 oral rat                         | > 11390 mg/kg bodyweight Animal: rat                                                                                                 |
| LD50 oral                             | > 3380 mg/kg bodyweight Animal: mouse                                                                                                |
| LD50 dermal rabbit                    | > 5000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)                                        |
| <b>D-LIMONENE (5989-27-5)</b>         |                                                                                                                                      |
| LD50 oral rat                         | > 2000 mg/kg bodyweight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral, 14 day(s)) |
| LD50 dermal rabbit                    | > 5000 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Read-across, Dermal, 7 day(s))                             |
| <b>BETA-MYRCENE (123-35-3)</b>        |                                                                                                                                      |
| LD50 oral rat                         | > 11390 mg/kg bodyweight Animal: rat                                                                                                 |
| LD50 oral                             | > 3380 mg/kg bodyweight Animal: mouse                                                                                                |
| LD50 dermal rabbit                    | > 5000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)                                        |
| <b>ALPHA-PINENE (80-56-8)</b>         |                                                                                                                                      |
| LD50 oral rat                         | > 500 mg/kg bodyweight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral, 01 day(s))  |
| LD50 dermal rat                       | > 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Skin, 14 day(s))             |
| <b>BETA-PINENE (127-91-3)</b>         |                                                                                                                                      |
| LD50 oral rat                         | 4700 mg/kg (Rat, Oral)                                                                                                               |
| <b>LINALOOL (78-70-6)</b>             |                                                                                                                                      |
| LD50 oral                             | 2790 mg/kg                                                                                                                           |
| <b>CITRAL (5392-40-5)</b>             |                                                                                                                                      |
| LD50 oral rat                         | ≈ 6800 mg/kg bodyweight Animal: rat                                                                                                  |
| LD50 dermal rat                       | > 2000 mg/kg bodyweight Animal: rat, Remarks on results: other:                                                                      |
| <b>METHYL ANTHRANILATE (134-20-3)</b> |                                                                                                                                      |
| LD50 oral                             | 2780 mg/kg bodyweight                                                                                                                |
| <b>ALPHA PINENE (7785-26-4)</b>       |                                                                                                                                      |
| LD50 oral                             | 500 mg/kg bodyweight                                                                                                                 |
| Skin corrosion/irritation             | : Causes skin irritation.                                                                                                            |
| <b>ETHYL BUTYRATE (105-54-4)</b>      |                                                                                                                                      |
| pH                                    | 4.18 Temp.: 29 °C Concentration: 1 other:                                                                                            |
| Serious eye damage/irritation         | : Causes serious eye irritation.                                                                                                     |
| <b>ETHYL BUTYRATE (105-54-4)</b>      |                                                                                                                                      |
| pH                                    | 4.18 Temp.: 29 °C Concentration: 1 other:                                                                                            |
| Respiratory or skin sensitisation     | : May cause an allergic skin reaction.                                                                                               |
| Germ cell mutagenicity                | : Not classified                                                                                                                     |
| Carcinogenicity                       | : Not classified                                                                                                                     |

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|                                                  |                                                                                                                                                                      |
|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MYRCENE (123-35-3)</b>                        |                                                                                                                                                                      |
| IARC group                                       | 2B - Possibly carcinogenic to humans                                                                                                                                 |
| <b>D-LIMONENE (5989-27-5)</b>                    |                                                                                                                                                                      |
| IARC group                                       | 3 - Not classifiable                                                                                                                                                 |
| <b>BETA-MYRCENE (123-35-3)</b>                   |                                                                                                                                                                      |
| IARC group                                       | 2B - Possibly carcinogenic to humans                                                                                                                                 |
| <b>CITRAL (5392-40-5)</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), Remarks on results: other: |
| Reproductive toxicity                            | : Not classified                                                                                                                                                     |
| STOT-single exposure                             | : Not classified                                                                                                                                                     |
| STOT-repeated exposure                           | : Not classified                                                                                                                                                     |
| <b>MYRCENE (123-35-3)</b>                        |                                                                                                                                                                      |
| LOAEL (oral, rat, 90 days)                       | 250 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)                                                |
| NOAEL (subchronic, oral, animal/male, 90 days)   | 500 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) | 250 mg/kg bodyweight Animal: mouse, Animal sex: female, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)                          |
| <b>BETA-MYRCENE (123-35-3)</b>                   |                                                                                                                                                                      |
| LOAEL (oral, rat, 90 days)                       | 250 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)                                                |
| NOAEL (subchronic, oral, animal/male, 90 days)   | 500 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) | 250 mg/kg bodyweight Animal: mouse, Animal sex: female, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)                          |
| Aspiration hazard                                | : May be fatal if swallowed and enters airways.                                                                                                                      |
| <b>ETHYL BUTYRATE (105-54-4)</b>                 |                                                                                                                                                                      |
| Viscosity, kinematic                             | 0.82 mm²/s                                                                                                                                                           |
| <b>CINNAMYL ALCOHOL (104-54-1)</b>               |                                                                                                                                                                      |
| Viscosity, kinematic                             | Not applicable                                                                                                                                                       |
| <b>D-LIMONENE (5989-27-5)</b>                    |                                                                                                                                                                      |
| Viscosity, kinematic                             | No data available in the literature                                                                                                                                  |
| <b>ALPHA-PINENE (80-56-8)</b>                    |                                                                                                                                                                      |
| Viscosity, kinematic                             | No data available in the literature                                                                                                                                  |
| <b>BETA-PINENE (127-91-3)</b>                    |                                                                                                                                                                      |
| Viscosity, kinematic                             | 2.5 mm²/s (20 °C, Calculated)                                                                                                                                        |

### 11.2. Information on other hazards

No additional information available

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### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general : Very toxic to aquatic life with long lasting effects.  
Hazardous to the aquatic environment, short-term (acute) : Very toxic to aquatic life.  
Hazardous to the aquatic environment, long-term (chronic) : Very toxic to aquatic life with long lasting effects.

| ETHYL BUTYRATE (105-54-4)   |                                                                                                                                                    |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| LC50 - Fish [1]             | ≥ 100 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)                                                                |
| EC50 - Crustacea [1]        | 116.6 mg/l Test organisms (species): Daphnia magna                                                                                                 |
| NOEC (chronic)              | 28833 mg/l Test organisms (species): Daphnia magna Duration: '21 d'                                                                                |
| NOEC chronic fish           | 1483 mg/l Test organisms (species): other: Duration: '28 d'                                                                                        |
| CINNAMYL ALCOHOL (104-54-1) |                                                                                                                                                    |
| LC50 - Fish [1]             | 9 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Static system, Fresh water, Experimental value, Lethal)                            |
| EC50 - Crustacea [1]        | 3.21 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect) |
| EC50 72h - Algae [1]        | 31.6 mg/l (OECD 201: Alga, Growth Inhibition Test, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Growth rate)           |
| MYRCENE (123-35-3)          |                                                                                                                                                    |
| EC50 - Crustacea [1]        | 1.47 mg/l Test organisms (species): Daphnia magna                                                                                                  |
| EC50 72h - Algae [1]        | 0.342 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)         |
| EC50 72h - Algae [2]        | 0.31 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)          |
| D-LIMONENE (5989-27-5)      |                                                                                                                                                    |
| LC50 - Fish [1]             | 720 µg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value)                      |
| LC50 - Fish [2]             | 702 µg/l Test organisms (species): Pimephales promelas                                                                                             |
| EC50 - Crustacea [1]        | 0.307 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Semi-static system, Fresh water, Experimental value, GLP)        |
| EC50 - Crustacea [2]        | 0.51 mg/l Test organisms (species): Daphnia magna                                                                                                  |
| EC50 72h - Algae [1]        | 0.32 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)          |
| EC50 72h - Algae [2]        | 0.214 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)         |
| BETA-MYRCENE (123-35-3)     |                                                                                                                                                    |
| EC50 - Crustacea [1]        | 1.47 mg/l Test organisms (species): Daphnia magna                                                                                                  |
| EC50 72h - Algae [1]        | 0.342 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)         |
| EC50 72h - Algae [2]        | 0.31 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)          |

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| ALPHA-PINENE (80-56-8) |                                                                                                                                                          |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| LC50 - Fish [1]        | 0.303 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Semi-static system, Fresh water, Experimental value, GLP)                            |
| EC50 - Crustacea [1]   | 0.475 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Semi-static system, Fresh water, Experimental value, Locomotor effect) |
| BETA-PINENE (127-91-3) |                                                                                                                                                          |
| LC50 - Fish [1]        | 0.557 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Cyprinus carpio, Semi-static system, Fresh water, Weight of evidence, Other isomer)               |
| ErC50 algae            | 0.826 mg/l (OECD 201: Alga, Growth Inhibition Test, 48 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Weight of evidence, Other isomer) |
| CITRAL (5392-40-5)     |                                                                                                                                                          |
| LC50 - Fish [1]        | 6.78 mg/l Test organisms (species): Leuciscus idus                                                                                                       |
| EC50 - Crustacea [1]   | 6.8 mg/l Test organisms (species): Daphnia magna                                                                                                         |
| EC50 72h - Algae [1]   | 103.8 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)                                                    |

## 12.2. Persistence and degradability

| Grape Stomper Solvent Free Terpene Profile |                                    |
|--------------------------------------------|------------------------------------|
| Persistence and degradability              | Rapidly degradable                 |
| ETHYL BUTYRATE (105-54-4)                  |                                    |
| Persistence and degradability              | Rapidly degradable                 |
| CINNAMYL ALCOHOL (104-54-1)                |                                    |
| Persistence and degradability              | Readily biodegradable in water.    |
| MYRCENE (123-35-3)                         |                                    |
| Persistence and degradability              | Rapidly degradable                 |
| BETA-CARYOPHYLLENE (87-44-5)               |                                    |
| Persistence and degradability              | Rapidly degradable                 |
| D-LIMONENE (5989-27-5)                     |                                    |
| Persistence and degradability              | Readily biodegradable in water.    |
| ThOD                                       | 3.29 g O <sub>2</sub> /g substance |
| BETA-MYRCENE (123-35-3)                    |                                    |
| Persistence and degradability              | Readily biodegradable in water.    |
| ALPHA-PINENE (80-56-8)                     |                                    |
| Persistence and degradability              | Readily biodegradable in water.    |
| BETA-PINENE (127-91-3)                     |                                    |
| Persistence and degradability              | Readily biodegradable in water.    |
| LINALOOL (78-70-6)                         |                                    |
| Persistence and degradability              | Rapidly degradable                 |
| CITRAL (5392-40-5)                         |                                    |
| Persistence and degradability              | Rapidly degradable                 |

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| METHYL ANTHRANILATE (134-20-3) |                    |
|--------------------------------|--------------------|
| Persistence and degradability  | Rapidly degradable |
| NEROLIDOL (7212-44-4)          |                    |
| Persistence and degradability  | Rapidly degradable |
| ALPHA PINENE (7785-26-4)       |                    |
| Persistence and degradability  | Rapidly degradable |

### 12.3. Bioaccumulative potential

| CINNAMYL ALCOHOL (104-54-1)                     |                                                                                |
|-------------------------------------------------|--------------------------------------------------------------------------------|
| BCF - Fish [1]                                  | 4.989 l/kg (BCFBAF v3.01, Estimated value)                                     |
| Partition coefficient n-octanol/water (Log Pow) | 1.636 (Practical experience/observation, 27 °C)                                |
| Bioaccumulative potential                       | Low potential for bioaccumulation (Log Kow < 4).                               |
| D-LIMONENE (5989-27-5)                          |                                                                                |
| BCF - Fish [1]                                  | 864.8 l/kg (BCFBAF v3.01, Pisces, QSAR, Fresh weight)                          |
| Partition coefficient n-octanol/water (Log Pow) | 4.38 (Experimental value, Equivalent or similar to OECD 117, 37 °C)            |
| Bioaccumulative potential                       | Potential for bioaccumulation (4 ≤ Log Kow ≤ 5).                               |
| BETA-MYRCENE (123-35-3)                         |                                                                                |
| Partition coefficient n-octanol/water (Log Pow) | 5.285 (Literature, 25 °C)                                                      |
| Bioaccumulative potential                       | High potential for bioaccumulation (Log Kow > 5).                              |
| ALPHA-PINENE (80-56-8)                          |                                                                                |
| BCF - Other aquatic organisms [1]               | 1233.1 – 1248 l/kg (BCFBAF v3.01, Read-across, Fresh weight)                   |
| Partition coefficient n-octanol/water (Log Pow) | 4.487 (Experimental value, Equivalent or similar to OECD 107, 25 °C)           |
| Bioaccumulative potential                       | Potential for bioaccumulation (500 ≤ BCF ≤ 5000).                              |
| BETA-PINENE (127-91-3)                          |                                                                                |
| BCF - Fish [1]                                  | 1125 l/kg (BCFBAF v3.01, Pisces, Fresh water, QSAR, Other isomer)              |
| Partition coefficient n-octanol/water (Log Pow) | 4.425 (Similar product, Read-across, Equivalent or similar to OECD 107, 25 °C) |
| Bioaccumulative potential                       | Potential for bioaccumulation (4 ≤ Log Kow ≤ 5).                               |

### 12.4. Mobility in soil

| CINNAMYL ALCOHOL (104-54-1)                                |                                                                                                                                                                                |
|------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 1.958 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value) |
| Ecology - soil                                             | Highly mobile in soil.                                                                                                                                                         |
| D-LIMONENE (5989-27-5)                                     |                                                                                                                                                                                |
| Surface tension                                            | No data available in the literature                                                                                                                                            |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 3.049 – 3.801 (log Koc, SRC PCKOCWIN v2.0, Calculated value)                                                                                                                   |
| Ecology - soil                                             | Low potential for mobility in soil.                                                                                                                                            |

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### BETA-MYRCENE (123-35-3)

|                |                                                       |
|----------------|-------------------------------------------------------|
| Ecology - soil | No (test)data on mobility of the substance available. |
|----------------|-------------------------------------------------------|

### ALPHA-PINENE (80-56-8)

|                                                            |                                                                                                   |
|------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 3.009 – 3.853 (log Koc, SRC PCKOCWIN v2.0, Calculated value)                                      |
| Ecology - soil                                             | Low potential for mobility in soil. May be harmful to plant growth, blooming and fruit formation. |

### BETA-PINENE (127-91-3)

|                                                            |                                                         |
|------------------------------------------------------------|---------------------------------------------------------|
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 3.009 – 3.836 (log Koc, Calculated value, Other isomer) |
| Ecology - soil                                             | Low potential for mobility in soil.                     |

## 12.5. Results of PBT and vPvB assessment

### Component

|                                                                                               |                                                                                                     |
|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII  | CINNAMYL ALCOHOL (104-54-1), D-LIMONENE (5989-27-5), ALPHA-PINENE (80-56-8), BETA-PINENE (127-91-3) |
| Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII | CINNAMYL ALCOHOL (104-54-1), D-LIMONENE (5989-27-5), ALPHA-PINENE (80-56-8), BETA-PINENE (127-91-3) |

## 12.6. Endocrine disrupting properties

No additional information available

## 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

|                                            |                                                                                               |
|--------------------------------------------|-----------------------------------------------------------------------------------------------|
| 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                     | : Flammable vapours may accumulate in the container. Do not re-use empty containers.          |

## SECTION 14: Transport information

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

### 14.1. UN number or ID number

|               |           |
|---------------|-----------|
| UN-No. (ADR)  | : UN 1266 |
| UN-No. (IMDG) | : UN 1266 |
| UN-No. (IATA) | : UN 1266 |
| UN-No. (ADN)  | : UN 1266 |
| UN-No. (RID)  | : UN 1266 |

### 14.2. UN proper shipping name

|                             |                      |
|-----------------------------|----------------------|
| Proper Shipping Name (ADR)  | : PERFUMERY PRODUCTS |
| Proper Shipping Name (IMDG) | : PERFUMERY PRODUCTS |
| Proper Shipping Name (IATA) | : Perfumery products |
| Proper Shipping Name (ADN)  | : PERFUMERY PRODUCTS |
| Proper Shipping Name (RID)  | : PERFUMERY PRODUCTS |

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|                                       |                                                                                  |
|---------------------------------------|----------------------------------------------------------------------------------|
| Transport document description (ADR)  | : UN 1266 PERFUMERY PRODUCTS, 3, III, (D/E)                                      |
| Transport document description (IMDG) | : UN 1266 PERFUMERY PRODUCTS, 3, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS |
| Transport document description (IATA) | : UN 1266 Perfumery products, 3, III, ENVIRONMENTALLY HAZARDOUS                  |
| Transport document description (ADN)  | : UN 1266 PERFUMERY PRODUCTS, 3, III, ENVIRONMENTALLY HAZARDOUS                  |
| Transport document description (RID)  | : UN 1266 PERFUMERY PRODUCTS, 3, III, ENVIRONMENTALLY HAZARDOUS                  |

### 14.3. Transport hazard class(es)

#### ADR

|                                  |     |
|----------------------------------|-----|
| Transport hazard class(es) (ADR) | : 3 |
| Danger labels (ADR)              | : 3 |



#### IMDG

|                                   |     |
|-----------------------------------|-----|
| Transport hazard class(es) (IMDG) | : 3 |
| Danger labels (IMDG)              | : 3 |



#### IATA

|                                   |     |
|-----------------------------------|-----|
| Transport hazard class(es) (IATA) | : 3 |
| Danger labels (IATA)              | : 3 |



#### ADN

|                                  |     |
|----------------------------------|-----|
| Transport hazard class(es) (ADN) | : 3 |
| Danger labels (ADN)              | : 3 |



#### RID

|                                  |     |
|----------------------------------|-----|
| Transport hazard class(es) (RID) | : 3 |
| Danger labels (RID)              | : 3 |



### 14.4. Packing group

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

### 14.5. Environmental hazards

|                               |       |
|-------------------------------|-------|
| Dangerous for the environment | : Yes |
| Marine pollutant              | : Yes |

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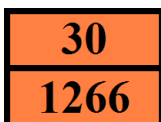
according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Other information : No supplementary information available

### 14.6. Special precautions for user

#### Overland transport

Classification code (ADR) : F1  
Special provisions (ADR) : 163  
Limited quantities (ADR) : 5I  
Excepted quantities (ADR) : E1  
Packing instructions (ADR) : P001, IBC03, LP01, R001  
Mixed packing provisions (ADR) : MP19  
Portable tank and bulk container instructions (ADR) : T2  
Portable tank and bulk container special provisions (ADR) : TP1  
Tank code (ADR) : LGBF  
Vehicle for tank carriage : FL  
Transport category (ADR) : 3  
Special provisions for carriage - Packages (ADR) : V12  
Special provisions for carriage - Operation (ADR) : S2  
Hazard identification number (Kemler No.) : 30  
Orange plates :



Tunnel restriction code (ADR) : D/E  
EAC code : •3Y

#### Transport by sea

Special provisions (IMDG) : 163, 223, 904, 955  
Limited quantities (IMDG) : 5 L  
Excepted quantities (IMDG) : E1  
Packing instructions (IMDG) : P001, LP01  
IBC packing instructions (IMDG) : IBC03  
Tank instructions (IMDG) : T2  
Tank special provisions (IMDG) : TP1  
EmS-No. (Fire) : F-E  
EmS-No. (Spillage) : S-D  
Stowage category (IMDG) : A  
Properties and observations (IMDG) : Miscibility with water depends upon the composition.

#### Air transport

PCA Excepted quantities (IATA) : E1  
PCA Limited quantities (IATA) : Y344  
PCA limited quantity max net quantity (IATA) : 10L  
PCA packing instructions (IATA) : 355  
PCA max net quantity (IATA) : 60L  
CAO packing instructions (IATA) : 366  
CAO max net quantity (IATA) : 220L  
Special provisions (IATA) : A3, A72  
ERG code (IATA) : 3L

#### Inland waterway transport

Classification code (ADN) : F1  
Special provisions (ADN) : 163  
Limited quantities (ADN) : 5 L  
Excepted quantities (ADN) : E1  
Equipment required (ADN) : PP, EX, A  
Ventilation (ADN) : VE01  
Number of blue cones/lights (ADN) : 0

#### Rail transport

Classification code (RID) : F1  
Special provisions (RID) : 163

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|                                                           |                           |
|-----------------------------------------------------------|---------------------------|
| Limited quantities (RID)                                  | : 5L                      |
| Excepted quantities (RID)                                 | : E1                      |
| Packing instructions (RID)                                | : P001, IBC03, LP01, R001 |
| Mixed packing provisions (RID)                            | : MP19                    |
| Portable tank and bulk container instructions (RID)       | : T2                      |
| Portable tank and bulk container special provisions (RID) | : TP1                     |
| Tank codes for RID tanks (RID)                            | : LGBF                    |
| Transport category (RID)                                  | : 3                       |
| Special provisions for carriage – Packages (RID)          | : W12                     |
| Colis express (express parcels) (RID)                     | : CE4                     |
| Hazard identification number (RID)                        | : 30                      |

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

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

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

| EU restriction list (REACH Annex XVII) |                                                                                                                                                                                                         |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reference code                         | Applicable on                                                                                                                                                                                           |
| 3(a)                                   | Grape Stomper Solvent Free Terpene Profile ; ETHYL BUTYRATE ; MYRCENE ; D-LIMONENE ; BETA-MYRCENE ; ALPHA-PINENE ; BETA-PINENE ; ALPHA PINENE                                                           |
| 3(b)                                   | Grape Stomper Solvent Free Terpene Profile ; MYRCENE ; BETA-CARYOPHYLLENE ; D-LIMONENE ; BETA-MYRCENE ; ALPHA-PINENE ; BETA-PINENE ; LINALOOL ; CITRAL ; METHYL ANTHRANILATE ; NEROLIDOL ; ALPHA PINENE |
| 3(c)                                   | Grape Stomper Solvent Free Terpene Profile ; ETHYL BUTYRATE ; MYRCENE ; D-LIMONENE ; BETA-MYRCENE ; ALPHA-PINENE ; BETA-PINENE ; NEROLIDOL ; ALPHA PINENE                                               |
| 40.                                    | ETHYL BUTYRATE ; MYRCENE ; D-LIMONENE ; BETA-MYRCENE ; ALPHA-PINENE ; BETA-PINENE ; ALPHA PINENE                                                                                                        |

##### 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 (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 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)

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### 15.1.2. National regulations

#### Germany

Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1).  
Major Accidents Ordinance (12. BImSchV) : Is not subject to the Major Accidents Ordinance (12. BImSchV)

#### Netherlands

SZW-lijst van kankerverwekkende stoffen : l-.alpha.-Pinene is listed  
SZW-lijst van mutagene stoffen : l-.alpha.-Pinene is listed  
SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed  
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : None of the components are listed  
SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed

#### Denmark

Class for fire hazard : Class II-1  
Store unit : 5 liter  
Classification remarks : R10 <H226;H304;H315;H317;H319;H410>; Emergency management guidelines for the storage of flammable liquids must be followed  
Danish National Regulations : Young people below the age of 18 years are not allowed to use the product  
Pregnant/breastfeeding women working with the product must not be in direct contact with it.  
If an employee is pregnant or breastfeeding and the person in question uses or is exposed to this product at work, the employer must always carry out a risk assessment of the work. The assessment must both deal with the dangerousness of the impact and its strength and duration. The employer's decision that a pregnant or lactating woman can perform a specific work task must therefore be made in the context of her specific working conditions. See also WEA-Guideline A.1.8-7 on the working environment of pregnant and breastfeeding workers.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

### Abbreviations and acronyms:

|        |                                                                                                 |
|--------|-------------------------------------------------------------------------------------------------|
| ADN    | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR    | European Agreement concerning the International Carriage of Dangerous Goods by Road             |
| ATE    | Acute Toxicity Estimate                                                                         |
| BCF    | Bioconcentration factor                                                                         |
| BLV    | Biological limit value                                                                          |
| BOD    | Biochemical oxygen demand (BOD)                                                                 |
| COD    | Chemical oxygen demand (COD)                                                                    |
| DMEL   | Derived Minimal Effect level                                                                    |
| DNEL   | Derived-No Effect Level                                                                         |
| EC-No. | European Community number                                                                       |
| EC50   | Median effective concentration                                                                  |
| EN     | European Standard                                                                               |
| IARC   | International Agency for Research on Cancer                                                     |
| IATA   | International Air Transport Association                                                         |
| IMDG   | International Maritime Dangerous Goods                                                          |
| LC50   | Median lethal concentration                                                                     |

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| Abbreviations and acronyms: |                                                                              |
|-----------------------------|------------------------------------------------------------------------------|
| LD50                        | Median lethal dose                                                           |
| LOAEL                       | Lowest Observed Adverse Effect Level                                         |
| NOAEC                       | No-Observed Adverse Effect Concentration                                     |
| NOAEL                       | No-Observed Adverse Effect Level                                             |
| NOEC                        | No-Observed Effect Concentration                                             |
| OECD                        | Organisation for Economic Co-operation and Development                       |
| OEL                         | Occupational Exposure Limit                                                  |
| PBT                         | Persistent Bioaccumulative Toxic                                             |
| PNEC                        | Predicted No-Effect Concentration                                            |
| RID                         | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS                         | Safety Data Sheet                                                            |
| STP                         | Sewage treatment plant                                                       |
| ThOD                        | Theoretical oxygen demand (ThOD)                                             |
| TLM                         | Median Tolerance Limit                                                       |
| VOC                         | Volatile Organic Compounds                                                   |
| CAS-No.                     | Chemical Abstracts Service number                                            |
| N.O.S.                      | Not Otherwise Specified                                                      |
| vPvB                        | Very Persistent and Very Bioaccumulative                                     |
| ED                          | Endocrine disrupting properties                                              |

| 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 |
| Asp. Tox. 1                         | Aspiration hazard, Category 1                                     |
| Eye Irrit. 2                        | Serious eye damage/eye irritation, Category 2                     |
| Flam. Liq. 3                        | Flammable liquids, Category 3                                     |
| 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.                              |
| 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.                  |
| Skin Irrit. 2                       | Skin corrosion/irritation, Category 2                             |
| Skin Sens. 1                        | Skin sensitisation, Category 1                                    |

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| Full text of H- and EUH-statements: |                                 |
|-------------------------------------|---------------------------------|
| Skin Sens. 1B                       | Skin sensitisation, category 1B |

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.