# SAFETY DATA SHEET

This Safety Data Sheet (SDS) was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 (in particular as amended by Commission Regulation (EU) 2020/878 with respect to SDSs) and Regulation (EC) No. 1272/2008 (CLP)

**Issuing Date:** 17-Jun-2022 **Revision Date:** 17-Jun-2022 **Revision Number** 1

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

### 1.1. Product identifier

**Product Identifier** 97391829_RET_CLPR7_EUR_SAW-90284509-90350512
**Product Name** Febreze 3Volution Orange & Cinnamon
**Synonyms** 97391829 (+90284509 + 90350512) / C-97391829-001 (+C-90284509-001 + C-90350512-001)
APP: C-90350511-001
**Product Form** Mixture

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

**Recommended use** Intended for general public
**Uses advised against** No information available
**Main user category** SU 21 - Consumer uses: Private households (= general public = consumers)
**Product category** Energized & Continuous
**Use category** PC3 - Air care products

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

**Supplier**
Procter & Gamble UK Brooklands, Weybridge, Surrey, KT13 0XP, UK Tel: 01932 896000 Fax: 01932 896200

P&G DCE bvba/sprl-Belgium Dist. Div., Temselaan 100, B-1853 Strombeek-Bever, Belgium (IE) 1800 535 119

For further information, please contact
**E-mail address** pgsds.im@pg.com

### 1.4. Emergency telephone number

Emergency Telephone (UK) Emergency Tel: 0800 328 8304 (IRL) Emergency Tel: 1800 509 497

(IRL) Poisons information: for information or to report a poisoning incident contact The National Poisons Information Centre 01 8092166 (8.00 a.m. to 10.00 p.m. 7 days a week)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

*Regulation (EC) No 1272/2008*

| | |
|---|---|
| **Skin corrosion/irritation** | Category 2 - (H315) |
| **Serious eye damage/eye irritation** | Category 2 - (H319) |
| **Skin sensitization** | Category 1 - (H317) |
| **Chronic aquatic toxicity** | Category 2 - (H411) |

### 2.2. Label elements

**Signal word**
Warning

**Hazard statements**
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H411 - Toxic to aquatic life with long lasting effects

**Precautionary Statements - EU (§28, 1272/2008)**
P102 - Keep out of reach of children
P305 + P351 - IF IN EYES: Rinse cautiously with water for several minutes
P501 - Dispose of contents/container to an appropriate local waste system
P312 - Call a POISON CENTRE/doctor if you feel unwell
P302 + P352 - IF ON SKIN: Wash with plenty of water

### 2.3. Other hazards

No information available

**Endocrine Disruptor Information**

## SECTION 3: Composition/information on ingredients

### 3.1 Substances
Not applicable

### 3.2 Mixtures

| Chemical name | CAS No | Weight-% | REACH registration number | EC No | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Specific concentration limit (SCL) | M-Factor | M-Factor (long-term) |
|---|---|---|---|---|---|---|---|---|
| 2,6-Dimethyl-7-Octen-2-ol | 18479-58-8 | 10 - 20 | 01-2119457274-37 | 242-362-4 | Skin Irrit. 2(H315) Eye Irrit. 2(H319) | - | - | - |
| Benzyl Acetate | 140-11-4 | 1 - 5 | 01-2119638272-42 | 205-399-7 | Aquatic Chronic 3(H412) | - | - | - |
| Linalyl Acetate | 115-95-7 | 1 - 5 | 01-2119454789-19 | 204-116-4 | Skin Irrit. 2(H315) Skin Sens. 1B(H317) | - | - | - |
| Tricyclodecenyl Propionate | 68912-13-0 | 1 - 5 | 01-2119969447-21 | 272-805-7 | Aquatic Chronic 2(H411) | - | - | - |
| Isoamyl Allylglycolate | 67634-00-8 | 1 - 5 | No data available | 266-803-5 | Acute Tox. 4 (Oral)(H302) Skin Irrit. 2(H315) Acute Tox. 2 | - | - | - |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | (Inhalation:dust,mist)(H330) | | | |
| 4-tert-Butylcyclohexyl Acetate | 32210-23-4 | 1 - 5 | 01-2119976286-24 | 250-954-9 | Skin Sens. 1B(H317) | - | - | - |
| 2,4-Dimethyl-3-Cyclohexene Carboxaldehyde | 68039-49-6 | 1 - 5 | 01-2119982384-28 | 268-264-1 | Skin Irrit. 2(H315) Skin Sens. 1(H317) Aquatic Chronic 2(H411) | - | - | - |
| Cyclamen Aldehyde | 103-95-7 | <1 | 01-2119970582-32 | 203-161-7 | Skin Irrit. 2(H315) Skin Sens. 1B(H317) Aquatic Chronic 3(H412) | - | - | - |
| Citronellol | 106-22-9 | <1 | 01-2119453995-23 | 203-375-0 | Skin Irrit. 2(H315) Skin Sens. 1B(H317) Eye Irrit. 2(H319) | - | - | - |
| Amyl Cinnamal | 122-40-7 | <1 | 01-2119978288-18 | 204-541-5 | Skin Sens. 1B(H317) Aquatic Chronic 2(H411) | - | - | - |
| Eucalyptol | 470-82-6 | <1 | 01-2119967772-24 | 207-431-5 | Flam. Liq. 3(H226) Skin Sens. 1B(H317) | - | - | - |
| Geranyl Acetate | 105-87-3 | <1 | 01-2119973480-35 | 203-341-5 | Skin Irrit. 2(H315) Skin Sens. 1B(H317) Aquatic Chronic 3(H412) | - | - | - |
| Citral | 5392-40-5 | <1 | 01-2119462829-23 | 226-394-6 | Skin Irrit. 2(H315) Skin Sens. 1(H317) Eye Irrit. 2(H319) | - | - | - |
| Alpha-Isomethyl Ionone | 127-51-5 | <1 | No data available | 204-846-3 | Skin Sens. 1B(H317) Aquatic Chronic 2(H411) | - | - | - |
| Coumarin | 91-64-5 | <1 | 01-2119949300-45 | 202-086-7 | Acute Tox. 4 (Oral)(H302) Skin Sens. 1B(H317) | - | - | - |
| Methyl-methylpentenylcyclohexene-1-carbaldehyde | 52474-60-9 | <1 | No data available | 257-941-7 | Aquatic Acute 1(H400) Aquatic Chronic 1(H410) | - | 1 | 1 |
| Delta-Damascone | 57378-68-4 | <1 | 01-21195351 | 260-709-8 | Acute Tox. 4 | - | - | - |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 22-53 | | (Oral)(H302) Skin Irrit. 2(H315) Skin Sens. 1A(H317) Aquatic Acute 1(H400) Aquatic Chronic 1(H410) | | | |
| Ethyl Linalool | 10339-55-6 | <1 | 01-2119969272-32 | 233-732-6 | Eye Irrit. 2(H319) Skin Sens. 1B(H317) | - | - | - |
| Carvone | 6485-40-1 | <1 | 01-2119962458-25 | 229-352-5 | Skin Sens. 1B(H317) | - | - | - |
| Methylenedioxyphenyl Methylpropanal | 1205-17-0 | <1 | 01-2120740119-58 | 214-881-6 | Skin Sens. 1B(H317) Repr. 2(H361) Aquatic Chronic 2(H411) | - | - | - |
| Linalool | 78-70-6 | <1 | 01-2119474016-42 | 201-134-4 | Skin Irrit. 2(H315) Skin Sens. 1B(H317) Eye Irrit. 2(H319) | - | - | - |

**Full text of H- and EUH-phrases: see section 16**

*Acute Toxicity Estimate*
*No information available*

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59).

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**General advice** Show this safety data sheet to the doctor in attendance.

**Inhalation** IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. (Call a physician if symptoms occur).

**Eye contact** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

**Skin contact** IF ON SKIN: Wash with plenty of soap and water. Remove and isolate contaminated clothing and shoes. Get medical attention if symptoms occur. Discontinue use of product.

**Ingestion** IF SWALLOWED:. Rinse mouth. Do NOT induce vomiting. Call a physician or poison control center immediately.

**Self-protection of the first aider** Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

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

**Symptoms** Coughing and/ or wheezing. Redness. Swelling of tissue. Itching. Drowsiness. Dizziness. Sneezing. Dryness. Pain. Blurred vision. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Excessive secretion. Shortness of breath. Headache.

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

**Note to physicians** May cause sensitization in susceptible persons. Treat symptomatically.

## SECTION 5: Firefighting measures

**5.1. Extinguishing media**

**Suitable Extinguishing Media** Dry chemical. Alcohol resistant foam. Carbon dioxide (CO2).

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

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

**Specific hazards arising from the chemical** None in particular.

**5.3. Advice for firefighters**

**Special protective equipment for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## SECTION 6: Accidental release measures

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

**Personal precautions** Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

**For emergency responders** Use personal protection recommended in Section 8.

**6.2. Environmental precautions**

**Environmental precautions** See Section 12 for additional Ecological Information.

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

**Methods for containment** Scoop absorbed substance into closing containers.

**Methods for cleaning up** Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Small quantities of liquid spill:. Large Spills:. contain released substance, pump into suitable containers. This material and its container must be disposed of in a safe way, and as per local legislation.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

**6.4. Reference to other sections**

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## SECTION 7: Handling and storage

**7.1. Precautions for safe handling**

**Advice on safe handling** Avoid contact with skin. Avoid contact with eyes. Use personal protection equipment. Do not eat, drink or smoke when using this product. Use only with adequate ventilation. People suffering from perfume sensitivity should be cautious when using this product.

**General hygiene considerations** Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing.

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

**Storage Conditions** Keep/store only in original container. Keep tightly closed in a dry and cool place.

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

**Risk Management Methods (RMM)** The information required is contained in this Safety Data Sheet.

## SECTION 8: Exposure controls/personal protection

**8.1. Control parameters**

**Exposure Limits**

| Chemical name | European Union | Austria | Belgium | Bulgaria | Croatia |
|---|---|---|---|---|---|
| Benzyl Acetate | - | - | TWA: 10 ppm | - | - |

| | | | | | |
|---|---|---|---|---|---|
| | | | TWA: 62 mg/m³ | | |
| Citral | - | - | TWA: 5 ppm<br>TWA: 32 mg/m³<br>* | - | - |
| Chemical name | Cyprus | Czech Republic | Denmark | Estonia | Finland |
| Benzyl Acetate | - | - | TWA: 10 ppm<br>TWA: 61 mg/m³ | - | - |
| Chemical name | France | Germany | Germany DFG | Greece | Hungary |
| Amyl Cinnamal | - | - | skin sensitizer | - | - |
| Chemical name | Ireland | Italy | Italy REL | Latvia | Lithuania |
| Benzyl Acetate | TWA: 10 ppm<br>STEL: 30 ppm | - | TWA: 10 ppm<br>TWA: 61 mg/m³ | TWA: 5 mg/m³ | TWA: 5 mg/m³ |
| Citral | TWA: 5 ppm<br>STEL: 15 ppm | - | TWA: 5 ppm<br>TWA: 31 mg/m³<br>* | - | - |
| Chemical name | Luxembourg | Malta | Netherlands | Norway | Poland |
| Citral | - | - | - | - | STEL: 54 mg/m³<br>TWA: 27 mg/m³ |
| Chemical name | Portugal | Romania | Slovakia | Slovenia | Spain |
| Benzyl Acetate | TWA: 10 ppm | TWA: 8 ppm<br>TWA: 50 mg/m³<br>STEL: 13 ppm<br>STEL: 80 mg/m³ | - | - | TWA: 10 ppm<br>TWA: 62 mg/m³ |
| Citral | TWA: 5 ppm<br>P*<br>Sensitizer | - | - | - | TWA: 5 ppm<br>vía dérmica*<br>sensitizer |
| Chemical name | Sweden | Switzerland | United Kingdom | Israel - Occupational Exposure Limits - TWAs | Turkey |
| Benzyl Acetate | - | - | - | 10ppmTWA | - |
| Citral | - | - | - | 5ppmTWA | - |

**Biological occupational exposure limits**
This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

**Derived No Effect Level (DNEL)** Long term.

| Chemical name | Worker - dermal, long-term - systemic | Worker - inhalative, long-term - systemic | Worker - dermal, long-term - local | Worker - inhalative, long-term - local |
|---|---|---|---|---|
| Linalyl Acetate | 2.5 mg/kg bw/day | 2.75 mg/m³ | 0.2362 mg/cm² | 0.2362 mg/cm² |
| Isoamyl Allylglycolate | 1.4 mg/kg bw/day | 4.93 mg/m³ | - | - |
| Cyclamen Aldehyde | 0.35 mg/kg bw/day | 1.23 mg/m³ | 0.00743 mg/cm² | - |
| Citronellol | 327.4 mg/kg bw/day | 161.6 mg/m³ | - | 10 mg/m³ |
| Eucalyptol | 2 mg/kg bw/day | 7.05 mg/m³ | - | - |
| Geranyl Acetate | 35.5 mg/kg bw/day | 62.59 mg/m³ | - | - |
| Citral | 1.7 mg/kg bw/day | 9 mg/m³ | 0.14 mg/cm² | - |
| Alpha-Isomethyl Ionone | 0.375 mg/kg bw/day | 8.22 mg/m³ | - | - |
| Coumarin | 0.79 mg/kg bw/d | 6.78 mg/m³ | - | - |
| Ethyl Linalool | 2.7 mg/kg bw/day | 3 mg/m³ | 1.6 mg/cm² | - |
| Methylenedioxyphenyl Methylpropanal | 0.17 mg/kg bw/d | 1.2 mg/m³ | 0.01 mg/cm² | - |
| Linalool | 3.5 mg/kg bw/day | 24.58 mg/m³ | 3 mg/cm² | - |

| Chemical name | Consumer - oral, long-term - local | Consumer - inhalative, long-term - local | Consumer - dermal, long-term - local |
|---|---|---|---|
| Linalyl Acetate | - | - | 0.2362 mg/cm² |
| Cyclamen Aldehyde | - | - | 0.00372 mg/cm² |
| Citronellol | - | 10 mg/m³ | - |
| Citral | - | - | 0.14 mg/cm² |

| | | | |
|---|---|---|---|
| Ethyl Linalool | - | - | 1.6 mg/cm² |
| Methylenedioxyphenyl Methylpropanal | - | - | 0.005 mg/cm² |
| Linalool | - | - | 1.5 mg/cm² |

| Chemical name | Consumer - oral, long-term - systemic | Consumer - inhalative, long-term - systemic | Consumer - dermal, long-term - systemic |
|---|---|---|---|
| Linalyl Acetate | 0.2 mg/kg bw/day | 0.68 mg/m³ | 1.25 mg/kg bw/day |
| Isoamyl Allylglycolate | 0.5 mg/kg bw/day | 0.87 mg/m³ | 0.5 mg/kg bw/day |
| Cyclamen Aldehyde | 0.13 mg/kg bw/day | 0.22 mg/m³ | 0.13 mg/kg bw/day |
| Citronellol | 13.8 mg/kg bw/day | 47.8 mg/m³ | 196.4 mg/kg bw/day |
| Eucalyptol | 600 mg/kg bw/day | 1.74 mg/m³ | 1 mg/kg bw/day |
| Geranyl Acetate | 8.9 mg/kg bw/day | 15.4 mg/m³ | 17.75 mg/kg bw/day |
| Citral | 0.6 mg/kg bw/day | 2.7 mg/m³ | 1 mg/kg bw/day |
| Alpha-Isomethyl Ionone | 0.0355 mg/kg bw/day | 1.45 mg/m³ | 0.0446 mg/kg bw/day |
| Coumarin | 0.39 mg/kg bw/d | 1.69 mg/m³ | 0.39 mg/kg bw/d |
| Ethyl Linalool | 0.2 mg/kg bw/day | 0.74 mg/m³ | 1.4 mg/kg bw/day |
| Methylenedioxyphenyl Methylpropanal | 0.17 mg/kg bw/d | 0.29 mg/m³ | 0.083 mg/kg bw/d |
| Linalool | 2.49 mg/kg bw/day | 4.33 mg/m³ | 1.25 mg/kg bw/day |

**Derived No Effect Level (DNEL)** Short term.

| Chemical name | Worker - dermal, short-term - systemic | Worker - inhalative, short-term - systemic | Worker - dermal, short-term - local | Worker - inhalative, short-term - local |
|---|---|---|---|---|
| Linalyl Acetate | - | - | 8 mg/cm² | - |
| Citronellol | - | - | 2.950 mg/cm² | 2.95 mg/cm² |
| Citral | - | - | - | 0.14 mg/cm² |
| Ethyl Linalool | 5.5 mg/kg bw/day | 18 mg/m³ | 5.5 mg/kg bw/day | 1.6 mg/cm² |
| Linalool | - | 16.5 mg/m³ | 15 mg/cm² | 3 mg/cm² |

| Chemical name | Consumer - inhalative, short-term - local | Consumer - dermal, short-term - local |
|---|---|---|
| Linalyl Acetate | - | 236.2 mg/cm² |
| Citronellol | 10 mg/m³ | 2.95 mg/cm² |
| Ethyl Linalool | - | 1.6 mg/cm² |
| Linalool | - | 1.5 mg/cm² |

| Chemical name | Consumer - oral, short-term - systemic | Consumer - inhalative, short-term - systemic | Consumer - dermal, short-term - systemic |
|---|---|---|---|
| Linalyl Acetate | - | - | 8 mg/cm² |
| Ethyl Linalool | 1.3 mg/kg bw/day | 4.4 mg/m³ | 2.7 mg/kg bw/day |
| Linalool | 1.2 mg/kg bw/d | 4.1 mg/m³ | 2.5 mg/kg bw/d |

**Predicted No Effect Concentration (PNEC)** No information available.

| Chemical name | Fresh Water | Marine water | Intermittent release |
|---|---|---|---|
| Linalyl Acetate | 0.011 mg/L | 0.001 mg/L | 0.11 mg/L |
| Tricyclodecenyl Propionate | 0.091 mg/L | 0.0091 mg/L | 0.025 mg/L |
| Isoamyl Allylglycolate | 0.00077 mg/L | 0.000077 mg/L | 0.0077 mg/L |
| Cyclamen Aldehyde | 0.0088 mg/L | 0.00088 mg/L | 0.014 |
| Citronellol | 0.002 mg/L | 0 mg/L | 0.024 mg/L |
| Eucalyptol | 0.057 mg/L | 0.0057 mg/L | 0.57 mg/L |
| Geranyl Acetate | 0.00372 mg/L | 0.000372 mg/L | 0.0372 mg/L |
| Citral | 0.007 mg/L | 0.001 mg/L | 0.068 mg/L |
| Alpha-Isomethyl Ionone | 0.00143 mg/L | 0.000143 mg/L | 0.0143 mg/L |
| Coumarin | 0.019 mg/L | 0.0019 mg/L | 0.0142 mg/L |
| Ethyl Linalool | 0.023 mg/L | 0.002 mg/L | 0.23 mg/L |
| Methylenedioxyphenyl Methylpropanal | 0.005 mg/L | 0.001 mg/L | 0.053 mg/L |
| Linalool | 0.2 mg/L | 0.02 mg/L | 2 mg/L |

| Chemical name | Freshwater sediment | Marine sediment | Sewage treatment plant | Soil | Air | Oral |
|---|---|---|---|---|---|---|

| | | | | | | |
|---|---|---|---|---|---|---|
| Linalyl Acetate | 0.609 mg/kg sediment dw | 0.061 mg/kg sediment dw | 1 mg/L | 0.115 mg/kg soil dw | - | - |
| Tricyclodecenyl Propionate | 12.2 mg/kg sediment dw | 1.22 mg/kg sediment dw | 4.8 mg/L | 4.4 mg/kg soil dw | - | - |
| Isoamyl Allylglycolate | 0.00893 mg/kg sediment dw | 0.000893 mg/kg sediment dw | - | 0.00133 mg/kg soil dw | - | - |
| Cyclamen Aldehyde | 1.02 mg/kg sediment dw | 0.102 mg/kg sediment dw | 1 mg/L | 0.199 mg/kg soil dw | - | - |
| Citronellol | 0.026 mg/kg sediment dw | 0.003 mg/kg sediment dw | 580 mg/L | 0.004 mg/kg soil dw | - | - |
| Eucalyptol | 1.425 mg/kg sediment dw | 0.142 mg/kg sediment dw | 10 mg/L | 0.25 mg/kg soil dw | - | - |
| Geranyl Acetate | 0.442 mg/kg sediment dw | 0.044 mg/kg sediment dw | 8 mg/L | 0.086 mg/kg soil dw | - | - |
| Citral | 0.125 mg/kg sediment dw | 0.013 mg/kg sediment dw | 1.6 mg/L | 0.021 mg/kg soil dw | - | - |
| Alpha-Isomethyl Ionone | 0.443 mg/kg sediment dw | 0.0443 mg/kg sediment dw | 10 mg/L | 0.0878mg/kg soil dw | - | - |
| Coumarin | 0.15 mg/kg sediment dw | 0.015 mg/kg sediment dw | 6.4 mg/L | 0.018 mg/kg soil dw | - | - |
| Ethyl Linalool | 0.223 mg/kg sediment dw | 0.022 mg/kg sediment dw | 10 mg/L | 0.031 mg/kg soil dw | - | - |
| Methylenedioxyphenyl Methylpropanal | 0.057 mg/kg sediment dw | 0.006 mg/kg sediment dw | 10 mg/L | 0.008 mg/kg soil dw | - | - |
| Linalool | 2.22 mg/kg sediment dw | 0.222 mg/kg sediment dw | 10 mg/L | 0.327 mg/kg soil dw | - | - |

**8.2. Exposure controls**

**Personal Protective Equipment**

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Hand protection** Wear suitable gloves.

**Skin and body protection** Wear suitable protective clothing.

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations** Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing.

**Environmental exposure controls** No information available.

## SECTION 9: Physical and chemical properties

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

**Physical state** Liquid
**Appearance** Liquid
**Color** clear
**Odor** Pleasant (perfume)
**Odor threshold** No information available

| Property | Values | Remarks • Method |
|---|---|---|
| **Melting point / freezing point** | No data available | Not available. This property is not relevant for the safety and classification of this product |

**Initial boiling point and boiling range** > 200 °C

| | | |
|---|---|---|
| **Flammability** | | Not applicable. This property is not relevant for liquid product forms |
| **Flammability Limit in Air** | | Not available. This property is not relevant for the safety and classification of this product No Data Available |
| **Upper flammability or explosive limits** | No data available | |
| **Lower flammability or explosive limits** | No data available | |
| **Flash point** | > 60 °C | Closed cup |
| **Autoignition temperature** | No data available | Not applicable. This property is not relevant for liquid product forms |
| **Decomposition temperature** | No Data Available | Not available. This property is not relevant for the safety and classification of this product |
| **pH** | No data available | |
| **Dynamic viscosity** | 3 - 12 mPa s | |
| **Water solubility** | Insoluble in water | |
| **Solubility(ies)** | No Data Available | Not available. This property is not relevant for the safety and classification of this product |
| **Partition coefficient** | No Data Available | Not available. This property is not relevant for the safety and classification of this product |
| **Vapor pressure** | No Data Available | Not available. This property is not relevant for the safety and classification of this product |
| **Relative density** | 0.93 - 0.99 | |
| **Relative vapor density** | No data available | Not applicable. This property is not relevant for liquid product forms |
| **Particle characteristics** | | Not available. This property is not relevant for the safety and classification of this product |
| **Particle Size** | No information available | |
| **Particle Size Distribution** | No information available | |

**9.2. Other information**

*9.2.1. Information with regard to physical hazard classes*
No information available

*9.2.2. Other safety characteristics*
No information available

## SECTION 10: Stability and reactivity

**10.1. Reactivity**
**Reactivity** No information available.

**10.2. Chemical stability**
**Stability** Stable under normal conditions.
**Explosion data**
**Sensitivity to mechanical impact** None.
**Sensitivity to static discharge** None.

**10.3. Possibility of hazardous reactions**
**Possibility of hazardous reactions** None under normal processing.

**10.4. Conditions to avoid**
**Conditions to avoid** None known based on information supplied.

**10.5. Incompatible materials**
**Incompatible materials** None known based on information supplied.

**10.6. Hazardous decomposition products**
**Hazardous decomposition products** None known based on information supplied.

## SECTION 11: Toxicological information

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

**Information on likely routes of exposure**

**Product Information**

**Inhalation** Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.

**Eye contact** Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.

**Skin contact** May cause sensitization by skin contact. Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). Causes skin irritation.

**Ingestion** Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** Itching. Rashes. Hives. Redness. May cause redness and tearing of the eyes.

**Numerical measures of toxicity**

**Acute toxicity**

**The following values are calculated based on chapter 3.1 of the GHS document**

**ATEmix (oral)** 6,041.80 mg/kg

**Component Information**

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|---|---|---|
| 2,6-Dimethyl-7-octen-2-ol | 3020 mg/kg (rat) | > 5 g/kg ( Rabbit ) | - |
| Benzyl Acetate | 4999 mg/kg (rat) | 5001 mg/kg (rabbit) | - |
| Linalyl Acetate | 9001 mg/kg (rat) | 5001 mg/kg (rat) | - |
| 3a,4,5,6,7,7a-hexahydro-4,7-methano-1h-inden-5(6)-yl propionate | 5001 mg/kg (rat) | 5001 mg/kg (rabbit) | - |
| Allyl Amyl Glycolate | 500 mg/kg (rat) | 5001 mg/kg (rat) | 0 mg/l/4h (rat) |
| Vertenex | 3323 mg/kg (rat) | 5001 mg/kg (rabbit) | - |
| 2,4-Dimethyl-3-cyclohexene Carboxaldehyde | - | 5000 mg/kg (rabbit) | - |
| Cyclamen Aldehyde | 4999 mg/kg (rat) | 5001 mg/kg (rat) | - |
| Citronellol | 3450 mg/kg bodyweight (rat) | 2650 mg/kg bodyweight (rabbit) | - |
| Amyl Cinnamal | 3731 mg/kg (rat) | 5001 mg/kg (rabbit) | - |
| Eucalyptol | 4500 mg/kg (rat) | 5001 mg/kg (rat) | - |
| Geranyl Acetate | 6330 mg/kg (rat) | 5460 mg/kg (rabbit) | - |
| citral | 6800 mg/kg (rat) | 2001 mg/kg (rat) | - |
| Isomethyl Alpha Ionone | 5001 mg/kg (rat) | 5001 mg/kg (rabbit) | - |
| Coumarin | 520 mg/kg bodyweight (rat) | = 293 mg/kg ( Rat ) | - |
| delta Damascone | 1400 mg/kg (rat) | 5001 mg/kg (rabbit) | - |
| Ethyl Linalool | 5283 mg/kg (rat) | 5001 mg/kg (rabbit) | 21 mg/l (rat) |
| L-Carvone | 4900 mg/kg (rat) | > 2000 mg/kg ( Rat ) | - |
| Helional | 3363 mg/kg (rat) | 5001 mg/kg (rabbit) | - |
| Linalool | 2790 mg/kg bodyweight (rat) | 5610 mg/kg (rabbit) | 21 mg/l/4h (rat) |

| Chemical name | Carcinogenicity | Species | Eye Damage | Species | Developmental toxicity | Species | Mutagenicity | Species |
|---|---|---|---|---|---|---|---|---|
| Citronellol | - | - | Y (OECD 405) | - | - | - | - | - |
| Citral | - | - | Y (OECD 405) | - | - | - | - | - |
| Ethyl Linalool | - | - | Y | - | - | - | - | - |
| Linalool | - | - | Y (OECD 405) | - | - | - | - | - |

| Chemical name | Reproductive toxicity | Species | Skin corrosion/irritation | Species | Sensitization | Species |
|---|---|---|---|---|---|---|
| Linalyl Acetate | - | - | Y (OECD 404) | - | - | - |
| Isoamyl Allylglycolate | - | - | Y | - | - | - |
| Cyclamen Aldehyde | - | - | Y | - | - | - |
| Citronellol | - | - | Y (OECD 404) | - | - | - |
| Geranyl Acetate | - | - | Y (OECD 404) | - | - | - |
| Citral | - | - | Y | - | - | - |
| Ethyl Linalool | - | - | Y (OECD 439) | - | - | - |
| Methylenedioxyphenyl Methylpropanal | 100 mg/kg bw/d (OECD 422) | - | - | - | - | - |
| Linalool | - | - | Y (OECD 404) | - | - | - |

| Chemical name | Skin sensitization | Species | STOT - single exposure | Target Organs | Species | STOT - repeated exposure | Target Organs | Species | Aspiration hazard |
|---|---|---|---|---|---|---|---|---|---|
| Cyclamen Aldehyde | Y (OECD 429) | - | - | - | - | - | - | - | - |
| Citronellol | Y (OECD 429) | - | - | - | - | - | - | - | - |
| Eucalyptol | Y (OECD 429) | - | - | - | - | - | - | - | - |
| Geranyl Acetate | Y (OECD 429) | - | - | - | - | - | - | - | - |
| Citral | Y (OECD 406) | - | - | - | - | - | - | - | - |
| Ethyl Linalool | Y (OECD 429) | - | - | - | - | - | - | - | - |
| Methylenedioxyphenyl Methylpropanal | Y (OECD 429) | - | - | - | - | - | - | - | - |
| Linalool | Y (OECD 429) | - | - | - | - | - | - | - | - |

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin corrosion/irritation** Irritating to skin.

**Serious eye damage/eye irritation** Causes serious eye irritation.

**Respiratory or skin sensitization** May cause an allergic skin reaction.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available.

**Reproductive toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Aspiration hazard** No information available.

**11.2. Information on other hazards**

**11.2.1. Endocrine disrupting properties**

**Endocrine disrupting properties** This product does not contain any known or suspected endocrine disruptors.

**11.2.2. Other information**

**Other adverse effects** No information available.

## SECTION 12: Ecological information

**12.1. Toxicity**

**Ecotoxicity** Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Unknown aquatic toxicity** Contains 4.74014 % of components with unknown hazards to the aquatic environment.

| Chemical name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea |
|---|---|---|---|---|
| 2,6-Dimethyl-7-octen-2-ol | 80 mg/L (OECD 201; Desmodesmus subspicatus; 72 h) | 27.8 mg/L (OECD 203; Oncorhynchus mykiss; 96 h) | 101 mg/L (OECD 209; activated sludge; static; 3 h) | 38 mg/L (OECD 202; Daphnia magna; 48 h) |
| Benzyl Acetate | 110 mg/L (OECD 201; Desmodesmus subspicatus; 72 h) | 4 mg/L (Oryzias latipes; 96 h) | 855 mg/L (OECD 209; activated sludge; 3 h) | 17 mg/L (OECD 202; Daphnia magna; 48 h) |
| Linalyl Acetate | 1 mg/L (OECD 201; Desmodesmus subspicatus; 72 h) | 11 mg/L (OECD 203; Cyprinus carpio; 96 h) | > 100 mg/L (OECD 209; activated sludge of a predominantly domestic sewage; 3 h) | 59 mg/L (OECD 202; daphnia magna; static; 48 h) |
| 3a,4,5,6,7,7a-hexahydro-4,7-methano-1h-inden-5(6)-yl propionate | 2.5 mg/L (OECD 201; Desmodesmus subspicatus; 72 h) | 6.7 mg/L (OECD 203; Pimephales promelas; 96 h) | EC50: 53 mg/L (ISO 8192; activated sludge of a predominantly domestic sewage; 0.5 h) | > 14 mg/L (OECD 202; Daphnia magna; 48 h) |
| Allyl Amyl Glycolate | 2.06 mg/L (Desmodesmus subspicatus or Pseudokirchneriella subcapitata; 96 h) | - | 8.47 mg/L (OECD 209; activated sludge; 3 h) | 5.09 mg/L (Daphnia; 48 h) |
| Vertenex | 22 mg/L (EU Method C.3; Desmodesmus subspicatus; 72 h) | 8.6 mg/L (EU Method C.1; Cyprinus Carpio; semi-static; freshwater; criteria: mortality; 96 h) | 302 mg/L (EU Method C.11; activated sludge of a predominantly domestic sewage; 3 h) | 5.3 mg/L (OECD 202; Daphnia magna; 48 h) |
| Cyclamen Aldehyde | 4.3 mg/L (OECD 201; Pseudokirchneriella subcapitata; 72 h) | 2.49 mg/L (96 h) | 100 mg/L (OECD 209; activated sludge; 3 h) | 1.4 mg/L (OECD 202; Daphnia magna; 48 h) |

| | | | | |
|---|---|---|---|---|
| Citronellol | 2.4 mg/L (72 h) | 14.66 mg/L (German standard DIN 38 412, part L15.; Leuciscus idus; 96 h) | > 10000 mg/L (German standard, DIN 38412 Part 27; Pseudomonas putida; 0.5 h) | 17.48 mg/L (EU Directive 79/831/EEC, Annex V, part C.; Daphnia magna; 48 h) |
| Amyl Cinnamal | 1.5 mg/L (OECD 201; Green algae; 72 h) | - | > 2000 mg/L (Corynebacterium minutissimum; 24 h) | - |
| Eucalyptol | > 74 mg/L (OECD 201; Pseudokirchneriella subcapitata; 72 h) | 57 mg/L (OECD 203; Oncorhynchus mykiss; 96 h) | > 100 mg/L (OECD 209; activated sludge of a predominantly domestic sewage; 3 h) | > 100 mg/L (OECD 202; Daphnia magna; 48 h) |
| Geranyl Acetate | 3.72 mg/L (OECD 201; Desmodesmus subspicatus; 72 h) | 68.12 mg/L (DIN 38412, part L15; Leuciscus idus; 96 h) | EC20: 800 mg/L (ISO 8192; activated sludge, domestic; 0.5 d) | 14.1 mg/L (EU Method C.2; Daphnia magna; 48 h) |
| citral | 103.8 mg/L (Desmodesmus subspicatus; 72 h) | 6.78 mg/L (Leuciscus idus; 96 h) | 160 mg/L (OECD 209; activated sludge, domestic; 0.5 h) | 6.8 mg/L (Daphnia magna; 48 h) |
| Isomethyl Alpha Ionone | > 20 mg/L (OECD 201; Desmodesmus subspicatus; 72 h) | - | - | - |
| Coumarin | 1.452 mg/L (QSAR; 96 h) | 2.94 mg/L (QSAR; fathead minnow; 96 h) | 640 mg/L (ISO 8192; 3 h) | > 24.3 mg/L (ASTM E729-80; Daphnia magna; 48 h) |
| delta Damascone | - | 0.97 mg/L(OECD 203; Oryzias latipes; 96h) | 241 mg/L (OECD 209; 3 h) | - |
| Ethyl Linalool | 25.1 mg/L (OECD 201; Desmodesmus subspicatus; 72 h) | 24 mg/L (OECD 203; Danio rerio; 96 h) | - | 23 mg/L (OECD 202; Daphnia magna; 48 h) |
| L-Carvone | 19 mg/L (OECD 201; Raphidocelis subcapitata; 72 h) | 6.1 mg/L (OECD 203; Oncorhynchus mykiss; 96 h) | - | 38 mg/L (OECD 202; Daphnia magna; 48 h) |
| Helional | 28 mg/L (OECD 201; Pseudokirchneriella subcapitata; 72 h) | 5.3 mg/L (OECD 203; Oncorhynchus mykiss; 96 h) | > 100 - < 1000 mg/L (OECD 209; activated sludge of a predominantly domestic sewage; 3 h) | 8.3 mg/L (OECD 202; Daphnia magna; 48 h) |
| Linalool | 156.7 mg/L (Desmodesmus subspicatus; 96 h) | 27.8 mg/L (OECD 203; Oncorhynchus mykiss; 96 h) | > 100 mg/L (OECD 209; activated sludge; 3 h) | 59 mg/L (OECD 202; Daphnia magna; 48 h) |

**Chronic Toxicity**

| Chemical name | Toxicity to algae (NOEC or ECx)* | Toxicity to fish (NOEC or ECx)* | Toxicity to daphnia and other aquatic invertebrates (NOEC or ECx)* | Toxicity to Microorganisms (NOEC or ECx)* | Toxicity to other organisms |
|---|---|---|---|---|---|
| Linalyl Acetate | 13.1 mg/L (OECD 201; desmodesmus subspicatus; 72 h) | 10 mg/L (Leuciscus idus; 4 d) | 25 mg/L (OECD 202; daphnia magna; 2 d) | > 1000 mg/L (ISO 8192; 0.5 h) | - |
| Tricyclodecenyl Propionate | 1.8 mg/L (OECD 201; Desmodesmus subspicatus; 3 d) | 0.8 mg/L (OECD 210; Pimephales promelas; 33 d) | 1 mg/L (OECD 211; Daphnia magna; 21 d) | 53 mg/L (ISO 8192; 0.5 h) | - |
| Cyclamen Aldehyde | 0.72 mg/L (OECD 201; Pseudokirchneriella subcapitata; 4 d) | - | 0.71 mg/L (OECD 211; Daphnia magna; 21 d) | - | - |
| Citronellol | 1.1 mg/L (Scenedesmus subspicatus; 3 d) | 4.6 mg/L (German standard DIN 38 412, part L15.; Leuciscus idus; 4 d) | 3.1 mg/L (EU Directive 79/831/EEC, Annex V, part C.; Daphnia magna; 2 d) | 580 mg/L (DIN 38412, Part 27; Pseudomonas putida; 0.02083 d) | - |
| Amyl Cinnamal | 0.21 mg/L (OECD 201; Green algae; 3 d) | - | 0.041 mg/L (OECD 211; Daphnia magna; 21 d) | - | - |
| Eucalyptol | 37 mg/L (OECD 201; Pseudokirchneriella subcapitata; 3 d) | 32 mg/L (OECD 203; Oncorhynchus mykiss; 4 d) | 100 mg/L (OECD 202; Daphnia magna; 2 d) | - | - |
| Geranyl Acetate | 0.585 mg/L (OECD | 10 mg/L (DIN 38412, | - | 800 mg/L (ISO 8192; | - |

| | | | | | |
|---|---|---|---|---|---|
| | 201; Desmodesmus subspicatus; 3 d) | part L15; Leuciscus idus; 4 d) | | 0.5 h) | |
| Citral | 3 mg/L (DIN 38412 L9; Desmodesmus subspicatus; 3 d) | 4.6 mg/L (Leuciscus idus; 4 d) | - | 68 mg/L (OECD 209; 0.02083 d) | - |
| Alpha-Isomethyl Ionone | 10 mg/L (OECD 201; Desmodesmus subspicatus; 72 h) | 7.8 mg/L (OECD 203; Oncorhynchus mykiss; 4 d) | 1 mg/L (OECD 202; Daphnia magna; 2 d) | 894.195 mg/L (Colletotrichum musae DAR 24962; 10 d) | - |
| Ethyl Linalool | 6.3 mg/L (OECD 201; Desmodesmus subspicatus; 3 d) | 5 mg/L (EU Method C.1; Danio rerio; 4 d) | 3.2 mg/L (OECD 202; Daphnia magna; 2 d) | - | - |
| Methylenedioxyphenyl Methylpropanal | 6.25 mg/L (OECD 201; Pseudokirchneriella subcapitata; 3 d) | 2.4 mg/L (OECD 203; Oncorhynchus mykiss; 4 d) | - | 100 mg/L (OECD 209; activated sludge of a predominantly domestic sewage; 0.125 d) | - |
| Linalool | 54.3 mg/L (DIN 38412 L 9; Desmodesmus subspicatus; 4 d) | < 3.5 mg/L (OECD 203; Oncorhynchus mykiss; 4 d) | 25 mg/L (OECD 202; Daphnia magna; 2 d) | > 100 mg/L (OECD 209; 0.125 d) | - |

## 12.2. Persistence and degradability

**Persistence and degradability**

| Chemical name | Ready Biodegradation Test (OECD 301) | Abiotic Degradation Hydrolysis | Abiotic Degradation Photolysis | Biodegradation Other Tests |
|---|---|---|---|---|
| Linalyl Acetate - 115-95-7 | ≥ 70 - ≤ 80O2; OECD 301 F; 28 d | - | - | - |
| 3a,4,5,6,7,7a-hexahydro-4,7-methano-1h-inden-5(6)-yl propionate - 68912-13-0 | 15% O2; OECD 301 F; 28 d | - | - | - |
| Allyl Amyl Glycolate - 67634-00-8 | 78.12% CO2; OECD 301 B; 28 d | - | - | - |
| Cyclamen Aldehyde - 103-95-7 | 65.5% CO2; OECD 301 B; 28 d | - | - | - |
| Citronellol - 106-22-9 | 80 - 90% O2; 28 d | - | - | - |
| Amyl Cinnamal - 122-40-7 | 90% BOD; OECD 301 F; 28 d | - | - | - |
| Eucalyptol - 470-82-6 | 82%CO2; OECD 301 F; 28 d | - | - | - |
| Geranyl Acetate - 105-87-3 | > 70% O2; 28 d | - | - | - |
| citral - 5392-40-5 | > 90%O2; EU Method C.4-D; 28 d | - | - | - |
| Isomethyl Alpha Ionone - 127-51-5 | 42.51%O2; OECD 301 D; 28 d | - | - | - |
| Coumarin - 91-64-5 | 90% O2; OECD 301 F; 85% (10 d) | - | - | - |
| Ethyl Linalool - 10339-55-6 | 91%O2; OECD 301 F; 28 d | - | - | - |
| Helional - 1205-17-0 | 24% CO2; OECD 301 B; 28 d | - | - | - |
| Linalool - 78-70-6 | 64.2% O2; OECD 301 D; 28 d | - | - | - |

## 12.3. Bioaccumulative potential

**Bioaccumulation** There is no data for this product.

**Component Information**

| Chemical name | Partition coefficient |
|---|---|
| 2,6-Dimethyl-7-Octen-2-ol | 3.25 |
| Benzyl Acetate | 1.96 |
| Linalyl Acetate | 3.9 |
| Tricyclodecenyl Propionate | 4.4 |
| Isoamyl Allylglycolate | 1.96 |
| 4-tert-Butylcyclohexyl Acetate | 4.8 |
| Cyclamen Aldehyde | 3.4 |
| Citronellol | 3.41 |
| Amyl Cinnamal | 2.498 |
| Eucalyptol | 3.4 |

| | |
|---|---|
| Geranyl Acetate | 4.04 |
| Citral | 2.76 |
| Alpha-Isomethyl Ionone | 4.288 |
| Ethyl Linalool | 3.3 |
| Carvone | 2.74 |
| Methylenedioxyphenyl Methylpropanal | 2.4 |
| Linalool | 2.9 |

| Chemical name | Octanol/water partition coefficient | Bioconcentration factor (BCF) |
|---|---|---|
| Linalyl Acetate | 3.9 (OECD 107) | 174 L/kg |
| Tricyclodecenyl Propionate | 4.4 (OECD 117) | 156 L/kg (OECD 305) |
| Isoamyl Allylglycolate | 1.96 | - |
| Cyclamen Aldehyde | 3.4 (OECD 117) | 155 L/kg |
| Citronellol | 3.41 (EU Method A.8) | 82.59 L/kg |
| Amyl Cinnamal | 2.498 (OECD 117) | 586 |
| Eucalyptol | 3.4 (OECD 117) | 155 L/kg |
| Geranyl Acetate | 3.56 - 4.04 | - |
| Citral | 2.76 (OECD 107) | - |
| Alpha-Isomethyl Ionone | 4.288 (OECD 117) | - |
| Coumarin | 1.51 | - |
| Ethyl Linalool | 3.3 (OECD 107) | - |
| Methylenedioxyphenyl Methylpropanal | 2.4 (OECD 117) | - |
| Linalool | 2.9 | - |

### 12.4. Mobility in soil

**Mobility in soil**

| Chemical name | log Koc |
|---|---|
| Benzyl Acetate | 250 |
| Linalyl Acetate | 432.4 L/kg |
| Tricyclodecenyl Propionate | 1300 (OECD 121) |
| Isoamyl Allylglycolate | 80 L/kg |
| Cyclamen Aldehyde | 3.05 (OECD 121) |
| Citronellol | 70.79 |
| Amyl Cinnamal | 974.98 (OECD 121) |
| Eucalyptol | 214 (OECD 121) |
| Geranyl Acetate | 1151 |
| Citral | 147.7 |
| Alpha-Isomethyl Ionone | 3061.963 (OECD 121) |
| Coumarin | 42.657 |
| Methylenedioxyphenyl Methylpropanal | 71.3 (OECD 121) |

### 12.5. Results of PBT and vPvB assessment

**PBT and vPvB assessment**

| Chemical name | PBT and vPvB assessment |
|---|---|
| 2,6-Dimethyl-7-Octen-2-ol | The substance is not PBT / vPvB |
| Benzyl Acetate | The substance is not PBT / vPvB |
| Linalyl Acetate | The substance is not PBT / vPvB |
| Tricyclodecenyl Propionate | The substance is not PBT / vPvB |
| Isoamyl Allylglycolate | The substance is not PBT / vPvB |
| 4-tert-Butylcyclohexyl Acetate | The substance is not PBT / vPvB |
| Cyclamen Aldehyde | The substance is not PBT / vPvB |
| Citronellol | The substance is not PBT / vPvB |
| Amyl Cinnamal | The substance is not PBT / vPvB |
| Eucalyptol | The substance is not PBT / vPvB |
| Geranyl Acetate | The substance is not PBT / vPvB |
| Citral | The substance is not PBT / vPvB |
| Alpha-Isomethyl Ionone | The substance is not PBT / vPvB |
| Coumarin | The substance is not PBT / vPvB |
| Ethyl Linalool | The substance is not PBT / vPvB |
| Carvone | The substance is not PBT / vPvB |
| Methylenedioxyphenyl Methylpropanal | The substance is not PBT / vPvB |
| Linalool | The substance is not PBT / vPvB |

**12.6. Endocrine disrupting properties**

**Endocrine disrupting properties** No information available.

**12.7. Other adverse effects**

No information available.

## SECTION 13: Disposal considerations

**13.1. Waste treatment methods**

**Waste from residues/unused products** The waste codes/waste designations below are in accordance with EWC. Waste must be delivered to an approved waste disposal company. Waste is to be kept separate from other types of waste until its disposal. Do not throw waste product into the sewer. Where possible recycling is preferred to disposal or incineration. Empty, uncleaned packaging need the same disposal considerations as filled packaging. For handling waste, see measures described in section 8. Dispose of in accordance with local regulations.

**Contaminated packaging** Do not reuse empty containers.

**Waste codes / waste designations according to EWC / AVV** 20 01 29* - detergents containing dangerous substances
15 01 10* - packaging containing residues of or contaminated by dangerous substances

## SECTION 14: Transport information

**IATA**

| | |
|---|---|
| **14.1 UN number or ID number** | UN3082 |
| **14.2 UN proper shipping name** | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Perfumery Product) |
| **14.3 Transport hazard class(es)** | 9 |
| **14.4 Packing group** | III |
| **Description** | UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Perfumery Product), 9, III |
| **14.5 Environmental hazards** | Yes |
| **14.6 Special precautions for user** | |
| **Special Provisions** | A97, A158, A197 |
| **Note:** | The shipper is responsible for identifying any exemptions, including Limited Quantity, that may apply based on package size. |

**IMDG**

| | |
|---|---|
| **14.1 UN number or ID number** | UN3082 |
| **14.2 UN proper shipping name** | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Perfumery Product) |
| **14.3 Transport hazard class(es)** | 9 |
| **14.4 Packing group** | III |
| **Description** | UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Perfumery Product), 9, III, Marine pollutant |
| **14.5 Environmental hazards** | Yes |
| **14.6 Special precautions for user** | |
| **Special Provisions** | 274, 335, 969 |
| **EmS-No** | F-A, S-F |
| **14.7 Maritime transport in bulk according to IMO instruments** | No information available |
| **Note:** | The shipper is responsible for identifying any exemptions, including Limited Quantity, that may apply based on package size. |

**RID**

| | |
|---|---|
| **14.1 UN number or ID number** | UN3082 |
| **14.2 UN proper shipping name** | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Perfumery Product) |
| **14.3 Transport hazard class(es)** | 9 |
| **14.4 Packing group** | III |

| | |
|---|---|
| **Description** | UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Perfumery Product), 9, III |
| **14.5 Environmental hazards** | Yes |
| **14.6 Special precautions for user** | |
| **Special Provisions** | 274, 335, 375, 601 |
| **Classification code** | M6 |

**ADR**

| | |
|---|---|
| **14.1 UN number or ID number** | UN3082 |
| **14.2 UN proper shipping name** | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Perfumery Product) |
| **14.3 Transport hazard class(es)** | 9 |
| **14.4 Packing group** | III |
| **Description** | UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Perfumery Product), 9, III |
| **14.5 Environmental hazards** | Yes |
| **14.6 Special precautions for user** | |
| **Special Provisions** | 274, 335, 601, 375 |
| **Classification code** | M6 |
| **Tunnel restriction code** | (-) |

**ADN**

| | |
|---|---|
| **14.1 UN number or ID number** | UN3082 |
| **14.2 Extended proper shipping name** | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Perfumery Product) |
| **Description** | UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Perfumery Product), 9, III |
| **14.3 Transport hazard class(es)** | 9 |
| **14.4 Packing group** | III |
| **14.5 Marine pollutant** | Yes |
| **Classification code** | M6 |
| **Hazard label(s)** | 9 |
| **Limited quantity (LQ)** | 5 L |
| **Equipment Requirements** | PP |

## SECTION 15: Regulatory information

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

**National regulations**

**Germany**

| | |
|---|---|
| **Water hazard class (WGK)** | obviously hazardous to water (WGK 2) |

**Poland**

Announcement of the Speaker of the Sejm of the Republic of Poland of 13 April 2018 regarding the publication of a uniform text of the Act - Labor Code (Journal of Laws 2018, item 917, as amended).Announcement of the Speaker of the Sejm of the Republic of Poland of March 15, 2019 regarding the publication of a uniform text of the Act on Waste (Journal of Laws 2019 item 701, as amended).Regulation of the Minister of Development of 7 July 2016, repealing the Regulation on specific requirements for certain products due to their negative environmental impact (Journal of Laws of 2016, item 1099, as amended).Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 regarding the highest permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286 with subsequent amendments).

**European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

**Authorizations and/or restrictions on use:**

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII) Regulation (EC) No. 648/2004 (Detergents regulation) Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP] Registration, Evaluation, Authorization, and Restriction of Chemicals (REACh) Regulation (EC 1907/2006)

| Chemical name | Restricted substance per REACH Annex XVII | Substance subject to authorization per REACH Annex XIV |
|---|---|---|
| Citral | 75. | - |
| Carvone | 75. | - |
| Linalool | 75. | - |

**Persistent Organic Pollutants**
Not applicable

**Dangerous substance category per Seveso Directive (2012/18/EU)**
E2 - Hazardous to the Aquatic Environment in Category Chronic 2

**Ozone-depleting substances (ODS) regulation (EC) 1005/2009**
Not applicable

**EU - Plant Protection Products (1107/2009/EC)**

| Chemical name | EU - Plant Protection Products (1107/2009/EC) |
|---|---|
| Eucalyptol - 470-82-6 | Plant protection agent |

**15.2. Chemical safety assessment**

**Chemical Safety Report** No chemical safety assessment has been carried out for this mixture per REACH regulation.

## SECTION 16: Other information

**Key or legend to abbreviations and acronyms used in the safety data sheet**

**Full text of H-Statements referred to under section 3**
H226 - Flammable liquid and vapor
H302 - Harmful if swallowed
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H330 - Fatal if inhaled
H361 - Suspected of damaging fertility or the unborn child
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects
H411 - Toxic to aquatic life with long lasting effects
H412 - Harmful to aquatic life with long lasting effects

**Legend**
SVHC: Substances of Very High Concern for Authorization:

**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

| | | | |
|---|---|---|---|
| TWA | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value | * | Skin designation |

| Classification procedure | |
|---|---|
| Classification according to Regulation (EC) No. 1272/2008 [CLP] | Method Used |
| Skin corrosion/irritation | Calculation method |
| Serious eye damage/eye irritation | Calculation method |
| Skin sensitization | Calculation method |
| Chronic aquatic toxicity | Calculation method |

| | |
|---|---|
| **Issuing Date:** | 17-Jun-2022 |
| **Revision Date:** | 17-Jun-2022 |
| **Further information** | Salts listed in Section 3 without a REACh Registration number are exempt, based on Annex V. |

**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**
**Disclaimer**
**The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.**

**End of Safety Data Sheet**