**AROMA CAR**
**ORGANIC AQUA**

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**1.1 Product identifier:** AROMA CAR
ORGANIC AQUA

**Other means of identification:**

**UFI:** DAJ4-10TU-000X-NE9W

**1.2 Relevant identified uses of the substance or mixture and uses advised against:**

Relevant uses (Consumer use): Air freshener

Uses advised against: All uses not specified in this section or in section 7.3

**1.3 Details of the supplier of the safety data sheet:**

MTM Industries sp z o.o.
Ul. Metalowców 6
62-800 Kalisz - Wielkopolskie - Polska
Phone: +48 62 767 33 21 - Fax: +48 62 767 33 79
info@mtm.eu
www.mtm.eu

**1.4 Emergency telephone number:** 112

## SECTION 2: HAZARDS IDENTIFICATION

**2.1 Classification of the substance or mixture:**

**CLP Regulation (EC) No 1272/2008:**

Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.

Aquatic Chronic 3: Hazardous to the aquatic environment, long-term hazard, Category 3, H412
Eye Irrit. 2: Eye irritation, Category 2, H319
Skin Irrit. 2: Skin irritation, Category 2, H315
Skin Sens. 1B: Sensitisation, skin, Category 1B, H317

**2.2 Label elements:**

**CLP Regulation (EC) No 1272/2008:**

Labelling of packages where the contents do not exceed 125 ml:

**Warning**

**Hazard statements:**

Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.
Skin Sens. 1B: H317 - May cause an allergic skin reaction.

**Precautionary statements:**

P101: If medical advice is needed, have product container or label at hand.
P102: Keep out of reach of children.
P302+P352: IF ON SKIN: Wash with plenty of water.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
P501: Dispose of contents/ container in accordance with local/regional/national/international regulation.

**Supplementary information:**

Contains Reaction mass of 3-(o-ethylphenyl)-2,2-dimethylpropionaldehyde and 3-(p-ethylphenyl)-2,2-dimethylpropionaldehyde, Caryophyllene, 3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one, [3r-(3a,3aß,6ß,7ß,8aa)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1h-3a,7-methanoazulene, Reaction mass of 1-[(1R*,6S*)-2,2,6-trimethylcyclohexyl]hexan-3-ol and 1-[(1S*,6S*)-2,2,6-trimethylcyclohexyl]hexan-3-ol, Geraniol, Eugenol, Reaction mass of 3,5-dimethylcyclohex-3-ene-1-carbaldehyde and 2,4-dimethylcyclohex-3-ene-1-carbaldehyde, 2-methylundecanal, (z)-hex-3-enyl benzoate, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one.

**Substances that contribute to the classification**

4-tert-butylcyclohexyl acetate; Linalool; Linalyl acetate

**2.3 Other hazards:**

- CONTINUED ON NEXT PAGE -

## SECTION 2: HAZARDS IDENTIFICATION (continued)

Product does not meet PBT/vPvB criteria
Endocrine-disrupting properties: The product does not meet the criteria.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS **

**3.1 Substance:**

Not relevant

**3.2 Mixture:**

**Chemical description:** Mixture composed of chemical products

**Components:**

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

| Identification | Chemical name/Classification | | Concentration |
|---|---|---|---|
| CAS: 34590-94-8<br>EC: 252-104-2<br>Index: Not relevant<br>REACH: 01-2119450011-60-XXXX | **Dipropylene Glycol Methyl Ether(1)** | Not classified | **25 - <50%** |
| | Regulation 1272/2008 | | |
| CAS: 32210-23-4<br>EC: 250-954-9<br>Index: Not relevant<br>REACH: 01-2119976286-24-XXXX | **4-tert-butylcyclohexyl acetate(2)** | Self-classified | **2.5 - <10%** |
| | Regulation 1272/2008 | Skin Sens. 1B: H317 - Warning | |
| CAS: 18479-58-8<br>EC: 242-362-4<br>Index: Not relevant<br>REACH: 01-2119457274-37-XXXX | **2,6-dimethyloct-7-en-2-ol(2)** | Self-classified | **2.5 - <10%** |
| | Regulation 1272/2008 | Eye Irrit. 2: H319; Skin Irrit. 2: H315; STOT SE 3: H336 - Warning | |
| CAS: 78-70-6<br>EC: 201-134-4<br>Index: 603-235-00-2<br>REACH: 01-2119474016-42-XXXX | **Linalool(2)** | Self-classified | **2.5 - <10%** |
| | Regulation 1272/2008 | Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning | |
| CAS: 115-95-7<br>EC: 204-116-4<br>Index: Not relevant<br>REACH: 01-2119454789-19-XXXX | **Linalyl acetate(2)** | Self-classified | **1 - <2.5%** |
| | Regulation 1272/2008 | Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning | |
| CAS: 76-22-2<br>EC: 200-945-0<br>Index: Not relevant<br>REACH: 01-2119966156-31-XXXX | **Bornan-2-one(2)** | Self-classified | **1 - <2.5%** |
| | Regulation 1272/2008 | Acute Tox. 4: H302+H332; Eye Dam. 1: H318; Flam. Sol. 2: H228; Skin Irrit. 2: H315; STOT SE 2: H371 - Danger | |
| CAS: Not relevant<br>EC: 916-329-6<br>Index: Not relevant<br>REACH: 01-2119983528-21-XXXX | **Reaction mass of 3-(o-ethylphenyl)-2,2-dimethylpropionaldehyde and 3-(p-ethylphenyl)-2,2-dimethylpropionaldehyde(2)** | Self-classified | **<1%** |
| | Regulation 1272/2008 | Aquatic Acute 1: H400; Aquatic Chronic 2: H411; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning | |
| CAS: 87-44-5<br>EC: 201-746-1<br>Index: Not relevant<br>REACH: 01-2120745237-53-XXXX | **Caryophyllene(2)** | Self-classified | **<1%** |
| | Regulation 1272/2008 | Asp. Tox. 1: H304; Skin Sens. 1B: H317 - Danger | |
| CAS: 127-51-5<br>EC: 204-846-3<br>Index: Not relevant<br>REACH: 01-2120745133-63-XXXX | **3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one(2)** | Self-classified | **<1%** |
| | Regulation 1272/2008 | Aquatic Chronic 2: H411; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning | |
| CAS: 2182025-97-2<br>EC: Not relevant<br>Index: Not relevant<br>REACH: 01-2120228335-61-XXXX | **[3r-(3a,3aß,6ß,7ß,8aa)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1h-3a,7-methanoazulene(2)** | Self-classified | **<1%** |
| | Regulation 1272/2008 | Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Skin Sens. 1B: H317 - Warning | |
| CAS: Not relevant<br>EC: 947-716-8<br>Index: Not relevant<br>REACH: 01-2120768938-30-XXXX | **Reaction mass of 1-[(1R*,6S*)-2,2,6-trimethylcyclohexyl]hexan-3-ol and 1-[(1S*,6S*)-2,2,6-trimethylcyclohexyl]hexan-3-ol(2)** | Self-classified | **<1%** |
| | Regulation 1272/2008 | Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Skin Sens. 1B: H317 - Warning | |

(1) Substance with a Union workplace exposure limit
(2) Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2020/878

*** Changes with regards to the previous version*

- CONTINUED ON NEXT PAGE -

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS ** (continued)

| Identification | Chemical name/Classification | | Concentration |
|---|---|---|---|
| CAS: 97-53-0<br>EC: 202-589-1<br>Index: Not relevant<br>REACH: 01-2119971802-33-XXXX | **Eugenol[2]** | Self-classified | **<1%** |
| | Regulation 1272/2008 | Eye Irrit. 2: H319; Skin Sens. 1B: H317 - Warning | |
| CAS: Not relevant<br>EC: 943-728-2<br>Index: Not relevant<br>REACH: 01-2119982384-28-XXXX | **Reaction mass of 3,5-dimethylcyclohex-3-ene-1-carbaldehyde and 2,4-dimethylcyclohex-3-ene-1-carbaldehyde[2]** | Self-classified | **<1%** |
| | Regulation 1272/2008 | Aquatic Chronic 2: H411; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning | |
| CAS: 106-24-1<br>EC: 203-377-1<br>Index: 603-241-00-5<br>REACH: 01-2119552430-49-XXXX | **Geraniol[2]** | Self-classified | **<1%** |
| | Regulation 1272/2008 | Eye Dam. 1: H318; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Danger | |
| CAS: 110-41-8<br>EC: 203-765-0<br>Index: Not relevant<br>REACH: 01-2119969443-29-XXXX | **2-methylundecanal[2]** | Self-classified | **<1%** |
| | Regulation 1272/2008 | Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning | |
| CAS: 25152-85-6<br>EC: 246-669-4<br>Index: Not relevant<br>REACH: 01-2120525150-73-XXXX | **(z)-hex-3-enyl benzoate[2]** | Self-classified | **<1%** |
| | Regulation 1272/2008 | Aquatic Chronic 2: H411; Skin Sens. 1B: H317 - Warning | |
| CAS: 57378-68-4<br>EC: 260-709-8<br>Index: Not relevant<br>REACH: 01-2119535122-53-xxxx | **1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one[2]** | Self-classified | **<1%** |
| | Regulation 1272/2008 | Acute Tox. 4: H302; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Skin Irrit. 2: H315; Skin Sens. 1A: H317 - Warning | |

[1] Substance with a Union workplace exposure limit
[2] Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2020/878

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

**Other information:**

| Identification | M-factor | |
|---|---|---|
| Reaction mass of 3-(o-ethylphenyl)-2,2-dimethylpropionaldehyde and 3-(p-ethylphenyl)-2,2-dimethylpropionaldehyde<br>CAS: Not relevant EC: 916-329-6 | Acute | 1 |
| | Chronic | 1 |
| [3r-(3a,3aß,6ß,7ß,8aa)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1h-3a,7-methanoazulene<br>CAS: 2182025-97-2 EC: Not relevant | Acute | 1 |
| | Chronic | 1 |
| Reaction mass of 1-[(1R*,6S*)-2,2,6-trimethylcyclohexyl]hexan-3-ol and 1-[(1S*,6S*)-2,2,6-trimethylcyclohexyl]hexan-3-ol<br>CAS: Not relevant EC: 947-716-8 | Acute | 1 |
| | Chronic | 1 |
| 2-methylundecanal<br>CAS: 110-41-8 EC: 203-765-0 | Acute | 1 |
| | Chronic | 1 |
| 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one<br>CAS: 57378-68-4 EC: 260-709-8 | Acute | 1 |
| | Chronic | 1 |

Acute toxicity estimate for the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or as determined in accordance with Annex I to that Regulation:

| Identification | Acute toxicity | | Genus |
|---|---|---|---|
| 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one<br>CAS: 57378-68-4<br>EC: 260-709-8 | LD50 oral | 1400 mg/kg | |
| | LD50 dermal | Not relevant | |
| | LC50 inhalation vapour | Not relevant | |
| Bornan-2-one<br>CAS: 76-22-2<br>EC: 200-945-0 | LD50 oral | 500 mg/kg | |
| | LD50 dermal | Not relevant | |
| | LC50 inhalation vapour | 11 mg/L | |

*** Changes with regards to the previous version*

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

- CONTINUED ON NEXT PAGE -

## SECTION 4: FIRST AID MEASURES (continued)

**By inhalation:**

This product is not classified as hazardous through inhalation. However, in case of intoxication symptoms it is recommended to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

**By skin contact:**

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

**By eye contact:**

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

**By ingestion/aspiration:**

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

**4.2 Most important symptoms and effects, both acute and delayed:**

Acute and delayed effects are indicated in sections 2 and 11.

**4.3 Indication of any immediate medical attention and special treatment needed:**

Not relevant

## SECTION 5: FIREFIGHTING MEASURES

**5.1 Extinguishing media:**

**Suitable extinguishing media:**

Product is non-flammable under normal conditions of storage, handling and use. In the case of combustion as a result of improper handling, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.

**Unsuitable extinguishing media:**

Non-applicable

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

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

**5.3 Advice for firefighters:**

Depending on the magnitude of the fire it may be necessary to use full protective clothing and Self Contained Breathing Apparatus. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...)

**Additional provisions:**

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

**For non-emergency personnel:**

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.

**For emergency responders:**

Wear protective equipment. Keep unprotected persons away. See section 8.

**6.2 Environmental precautions:**

- CONTINUED ON NEXT PAGE -

## SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

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

It is recommended:

Prevent the entrance of product in drains, sewers or watercourses. Absorb the spill using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. Collect the product in appropriate containers and manage it according to current legislation.
Spillages in water or sea:
Small spillages:
Contain spillage using barriers or similar equipment. Use suitable absorbents for collection and treat the waste in accordance with current regulations.
Large spillages:
If possible, contain spillage in open water using barriers or similar equipment. If this is not possible, try to control its spread and collect the product with suitable mechanical means. Always consult experts before using dispersants and make sure you have the necessary approvals if they are to be used. Treat the waste according to current regulations.

**6.4 Reference to other sections:**

See sections 8 and 13.

## SECTION 7: HANDLING AND STORAGE

**7.1 Precautions for safe handling:**

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and dispose of using safe methods (section 6).

B.- Technical recommendations for the prevention of fires and explosions

It is recommended to transfer at a slow speed to avoid the creation of electrostatic charges that could affect flammable products. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

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

A.- Specific storage requirements

Minimum Temp.: 5 ºC

Maximum Temp.: 30 ºC

Maximum time: 6 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

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

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1 Control parameters:**

Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country-specific legislation):

Directive (EU) 2000/39, Directive 2004/37/EC,Directive (EU) 2006/15, Directive (EU) 2009/161, Directive (EU) 2017/164, Directive (EU) 2019/1831:

| Identification | Occupational exposure limits | | |
|---|---|---|---|
| Dipropylene Glycol Methyl Ether (1) | IOELV (8h) | 50 ppm | 308 mg/m³ |
| CAS: 34590-94-8 EC: 252-104-2 | IOELV (STEL) | | |

- CONTINUED ON NEXT PAGE -

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

(1) Skin

**DNEL (Workers):**

| Identification | | Short exposure | | Long exposure | |
|---|---|---|---|---|---|
| | | Systemic | Local | Systemic | Local |
| Dipropylene Glycol Methyl Ether | Oral | Not relevant | Not relevant | Not relevant | Not relevant |
| CAS: 34590-94-8 | Dermal | Not relevant | Not relevant | 283 mg/kg | Not relevant |
| EC: 252-104-2 | Inhalation | Not relevant | Not relevant | 308 mg/m³ | Not relevant |
| 2,6-dimethyloct-7-en-2-ol | Oral | Not relevant | Not relevant | Not relevant | Not relevant |
| CAS: 18479-58-8 | Dermal | Not relevant | Not relevant | 20,8 mg/kg | Not relevant |
| EC: 242-362-4 | Inhalation | Not relevant | Not relevant | 73,5 mg/m³ | Not relevant |
| Linalool | Oral | Not relevant | Not relevant | Not relevant | Not relevant |
| CAS: 78-70-6 | Dermal | Not relevant | Not relevant | 3,5 mg/kg | Not relevant |
| EC: 201-134-4 | Inhalation | Not relevant | Not relevant | 24,58 mg/m³ | Not relevant |
| Linalyl acetate | Oral | Not relevant | Not relevant | Not relevant | Not relevant |
| CAS: 115-95-7 | Dermal | Not relevant | Not relevant | 2,5 mg/kg | Not relevant |
| EC: 204-116-4 | Inhalation | Not relevant | Not relevant | 2,75 mg/m³ | Not relevant |
| Reaction mass of 3-(o-ethylphenyl)-2,2-dimethylpropionaldehyde and 3-(p-ethylphenyl)-2,2-dimethylpropionaldehyde | Oral | Not relevant | Not relevant | Not relevant | Not relevant |
| CAS: Not relevant | Dermal | Not relevant | Not relevant | 4,2 mg/kg | Not relevant |
| EC: 916-329-6 | Inhalation | Not relevant | Not relevant | 14,7 mg/m³ | Not relevant |
| Reaction mass of 1-[(1R*,6S*)-2,2,6-trimethylcyclohexyl] hexan-3-ol and 1-[(1S*,6S*)-2,2,6-trimethylcyclohexyl] hexan-3-ol | Oral | Not relevant | Not relevant | Not relevant | Not relevant |
| CAS: Not relevant | Dermal | Not relevant | Not relevant | 2,8 mg/kg | Not relevant |
| EC: 947-716-8 | Inhalation | Not relevant | Not relevant | 9,87 mg/m³ | Not relevant |
| Eugenol | Oral | Not relevant | Not relevant | Not relevant | Not relevant |
| CAS: 97-53-0 | Dermal | Not relevant | Not relevant | 6 mg/kg | Not relevant |
| EC: 202-589-1 | Inhalation | Not relevant | Not relevant | 21,2 mg/m³ | Not relevant |
| Reaction mass of 3,5-dimethylcyclohex-3-ene-1-carbaldehyde and 2,4-dimethylcyclohex-3-ene-1-carbaldehyde | Oral | Not relevant | Not relevant | Not relevant | Not relevant |
| CAS: Not relevant | Dermal | Not relevant | Not relevant | 0,521 mg/kg | Not relevant |
| EC: 943-728-2 | Inhalation | Not relevant | Not relevant | 1,837 mg/m³ | Not relevant |
| Geraniol | Oral | Not relevant | Not relevant | Not relevant | Not relevant |
| CAS: 106-24-1 | Dermal | Not relevant | Not relevant | 12,5 mg/kg | Not relevant |
| EC: 203-377-1 | Inhalation | Not relevant | Not relevant | 161,6 mg/m³ | Not relevant |
| 2-methylundecanal | Oral | Not relevant | Not relevant | Not relevant | Not relevant |
| CAS: 110-41-8 | Dermal | 100 mg/kg | Not relevant | 10,46 mg/kg | Not relevant |
| EC: 203-765-0 | Inhalation | 352,63 mg/m³ | 881,58 mg/m³ | 36,89 mg/m³ | 92,21 mg/m³ |

**DNEL (General population):**

| Identification | | Short exposure | | Long exposure | |
|---|---|---|---|---|---|
| | | Systemic | Local | Systemic | Local |
| Dipropylene Glycol Methyl Ether | Oral | Not relevant | Not relevant | 36 mg/kg | Not relevant |
| CAS: 34590-94-8 | Dermal | Not relevant | Not relevant | 121 mg/kg | Not relevant |
| EC: 252-104-2 | Inhalation | Not relevant | Not relevant | 37,2 mg/m³ | Not relevant |
| 2,6-dimethyloct-7-en-2-ol | Oral | Not relevant | Not relevant | 12,5 mg/kg | Not relevant |
| CAS: 18479-58-8 | Dermal | Not relevant | Not relevant | 12,5 mg/kg | Not relevant |
| EC: 242-362-4 | Inhalation | Not relevant | Not relevant | 21,7 mg/m³ | Not relevant |
| Linalool | Oral | Not relevant | Not relevant | 2,49 mg/kg | Not relevant |
| CAS: 78-70-6 | Dermal | Not relevant | Not relevant | 1,25 mg/kg | Not relevant |
| EC: 201-134-4 | Inhalation | Not relevant | Not relevant | 4,33 mg/m³ | Not relevant |
| Linalyl acetate | Oral | Not relevant | Not relevant | 0,2 mg/kg | Not relevant |
| CAS: 115-95-7 | Dermal | Not relevant | Not relevant | 1,25 mg/kg | Not relevant |
| EC: 204-116-4 | Inhalation | Not relevant | Not relevant | 0,68 mg/m³ | Not relevant |

- CONTINUED ON NEXT PAGE -

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

| Identification | | Short exposure | | Long exposure | |
|---|---|---|---|---|---|
| | | Systemic | Local | Systemic | Local |
| Reaction mass of 3-(o-ethylphenyl)-2,2-dimethylpropionaldehyde and 3-(p-ethylphenyl)-2,2-dimethylpropionaldehyde | Oral | Not relevant | Not relevant | 2,5 mg/kg | Not relevant |
| CAS: Not relevant | Dermal | Not relevant | Not relevant | 2,5 mg/kg | Not relevant |
| EC: 916-329-6 | Inhalation | Not relevant | Not relevant | 4,3 mg/m³ | Not relevant |
| Reaction mass of 1-[(1R*,6S*)-2,2,6-trimethylcyclohexyl] hexan-3-ol and 1-[(1S*,6S*)-2,2,6-trimethylcyclohexyl] hexan-3-ol | Oral | Not relevant | Not relevant | 0,5 mg/kg | Not relevant |
| CAS: Not relevant | Dermal | Not relevant | Not relevant | 1 mg/kg | Not relevant |
| EC: 947-716-8 | Inhalation | Not relevant | Not relevant | 1,74 mg/m³ | Not relevant |
| Eugenol | Oral | Not relevant | Not relevant | 3 mg/kg | Not relevant |
| CAS: 97-53-0 | Dermal | Not relevant | Not relevant | 3 mg/kg | Not relevant |
| EC: 202-589-1 | Inhalation | Not relevant | Not relevant | 5,22 mg/m³ | Not relevant |
| Reaction mass of 3,5-dimethylcyclohex-3-ene-1-carbaldehyde and 2,4-dimethylcyclohex-3-ene-1-carbaldehyde | Oral | Not relevant | Not relevant | 0,312 mg/kg | Not relevant |
| CAS: Not relevant | Dermal | Not relevant | Not relevant | 0,312 mg/kg | Not relevant |
| EC: 943-728-2 | Inhalation | Not relevant | Not relevant | 0,543 mg/m³ | Not relevant |
| Geraniol | Oral | Not relevant | Not relevant | 13,75 mg/kg | Not relevant |
| CAS: 106-24-1 | Dermal | Not relevant | Not relevant | 7,5 mg/kg | Not relevant |
| EC: 203-377-1 | Inhalation | Not relevant | Not relevant | 47,8 mg/m³ | Not relevant |
| 2-methylundecanal | Oral | 25 mg/kg | Not relevant | 5,23 mg/kg | Not relevant |
| CAS: 110-41-8 | Dermal | 50 mg/kg | Not relevant | 5,23 mg/kg | Not relevant |
| EC: 203-765-0 | Inhalation | 86,96 mg/m³ | 217,39 mg/m³ | 9,1 mg/m³ | 22,74 mg/m³ |

**PNEC:**

| Identification | | | | |
|---|---|---|---|---|
| Dipropylene Glycol Methyl Ether | STP | 4168 mg/L | Fresh water | 19 mg/L |
| CAS: 34590-94-8 | Soil | 2,74 mg/kg | Marine water | 1,9 mg/L |
| EC: 252-104-2 | Intermittent | 190 mg/L | Sediment (Fresh water) | 70,2 mg/kg |
| | Oral | Not relevant | Sediment (Marine water) | 7,02 mg/kg |
| 4-tert-butylcyclohexyl acetate | STP | 12,2 mg/L | Fresh water | 0,0053 mg/L |
| CAS: 32210-23-4 | Soil | 0,42 mg/kg | Marine water | 0,00053 mg/L |
| EC: 250-954-9 | Intermittent | 0,053 mg/L | Sediment (Fresh water) | 2,01 mg/kg |
| | Oral | 0,06667 g/kg | Sediment (Marine water) | 0,21 mg/kg |
| 2,6-dimethyloct-7-en-2-ol | STP | 10 mg/L | Fresh water | 0,0278 mg/L |
| CAS: 18479-58-8 | Soil | 0,103 mg/kg | Marine water | 0,00278 mg/L |
| EC: 242-362-4 | Intermittent | 0,278 mg/L | Sediment (Fresh water) | 0,594 mg/kg |
| | Oral | 0,111 g/kg | Sediment (Marine water) | 0,059 mg/kg |
| Linalool | STP | 10 mg/L | Fresh water | 0,2 mg/L |
| CAS: 78-70-6 | Soil | 0,327 mg/kg | Marine water | 0,02 mg/L |
| EC: 201-134-4 | Intermittent | 2 mg/L | Sediment (Fresh water) | 2,22 mg/kg |
| | Oral | 0,0078 g/kg | Sediment (Marine water) | 0,222 mg/kg |
| Linalyl acetate | STP | 1 mg/L | Fresh water | 0,011 mg/L |
| CAS: 115-95-7 | Soil | 0,115 mg/kg | Marine water | 0,001 mg/L |
| EC: 204-116-4 | Intermittent | 0,11 mg/L | Sediment (Fresh water) | 0,609 mg/kg |
| | Oral | Not relevant | Sediment (Marine water) | 0,061 mg/kg |
| Reaction mass of 3-(o-ethylphenyl)-2,2-dimethylpropionaldehyde and 3-(p-ethylphenyl)-2,2-dimethylpropionaldehyde | STP | 1 mg/L | Fresh water | 0,006 mg/L |
| CAS: Not relevant | Soil | 0,124 mg/kg | Marine water | 0,001 mg/L |
| EC: 916-329-6 | Intermittent | Not relevant | Sediment (Fresh water) | 0,635 mg/kg |
| | Oral | Not relevant | Sediment (Marine water) | 0,064 mg/kg |

- CONTINUED ON NEXT PAGE -

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

| Identification | | | | |
|---|---|---|---|---|
| Reaction mass of 1-[(1R*,6S*)-2,2,6-trimethylcyclohexyl] hexan-3-ol and 1-[(1S*,6S*)-2,2,6-trimethylcyclohexyl] hexan-3-ol | STP | 100 mg/L | Fresh water | 0,001 mg/L |
| CAS: Not relevant | Soil | 0,396 mg/kg | Marine water | 0 mg/L |
| EC: 947-716-8 | Intermittent | 0,007 mg/L | Sediment (Fresh water) | 0,5 mg/kg |
| | Oral | Not relevant | Sediment (Marine water) | 0,05 mg/kg |
| Eugenol | STP | Not relevant | Fresh water | 0,00113 mg/L |
| CAS: 97-53-0 | Soil | 0,015 mg/kg | Marine water | 0,000113 mg/L |
| EC: 202-589-1 | Intermittent | 0,0113 mg/L | Sediment (Fresh water) | 0,081 mg/kg |
| | Oral | Not relevant | Sediment (Marine water) | 0,008 mg/kg |
| Reaction mass of 3,5-dimethylcyclohex-3-ene-1-carbaldehyde and 2,4-dimethylcyclohex-3-ene-1-carbaldehyde | STP | 10 mg/L | Fresh water | 0,0075 mg/L |
| CAS: Not relevant | Soil | 0,041 mg/kg | Marine water | 0,00075 mg/L |
| EC: 943-728-2 | Intermittent | 0,075 mg/L | Sediment (Fresh water) | 0,226 mg/kg |
| | Oral | Not relevant | Sediment (Marine water) | 0,023 mg/kg |
| Geraniol | STP | 0,7 mg/L | Fresh water | 0,011 mg/L |
| CAS: 106-24-1 | Soil | 0,017 mg/kg | Marine water | 0,001 mg/L |
| EC: 203-377-1 | Intermittent | 0,108 mg/L | Sediment (Fresh water) | 0,115 mg/kg |
| | Oral | Not relevant | Sediment (Marine water) | 0,011 mg/kg |
| 2-methylundecanal | STP | 10 mg/L | Fresh water | 0,00066 mg/L |
| CAS: 110-41-8 | Soil | 0,0526 mg/kg | Marine water | 0,000066 mg/L |
| EC: 203-765-0 | Intermittent | 0,0018 mg/L | Sediment (Fresh water) | 0,265 mg/kg |
| | Oral | 0,116 g/kg | Sediment (Marine water) | 0,0265 mg/kg |

**8.2 Exposure controls:**

A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Regulation (EU) 2016/425. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,…) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

If the working conditions and/or safety measures adopted do not allow keeping the airborne concentration of the product below the exposure limits (if any) or at acceptable levels (if no exposure limits exist), suitable respiratory protection equipment chosen by a qualified professional should be used.

C.- Specific protection for the hands

| Pictogram | PPE | Labelling | CEN Standard | Remarks |
|---|---|---|---|---|
|  Mandatory hand protection | Chemical protective gloves (Material: Nitrile, Breakthrough time: > 120 min, Thickness: 0.2 mm) | CE CAT III | EN ISO 21420:2020 | Replace the gloves at any sign of deterioration. |

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

D.- Eye and face protection

| Pictogram | PPE | Labelling | CEN Standard | Remarks |
|---|---|---|---|---|
|  Mandatory face protection | Panoramic glasses against splash/projections. | CE CAT II | EN 166:2002 EN ISO 4007:2018 | Clean daily and disinfect periodically according to the manufacturer´s instructions. Use if there is a risk of splashing. |

E.- Body protection

- CONTINUED ON NEXT PAGE -

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

| Pictogram | PPE | Labelling | CEN Standard | Remarks |
|---|---|---|---|---|
| | Work clothing | CE CAT I | | Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 6529:2013, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994. |
| | Anti-slip work shoes | CE CAT II | EN ISO 20347:2022 | Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 20345:2022 y EN 13832-1:2019 |

F.- Additional emergency measures

It is advised to implement additional emergency equipments in workplaces that are particularly exposed to the product or in situations where risk assessments highlight the necessity of such equipments.

| Emergency measure | Standards | Emergency measure | Standards |
|---|---|---|---|
|  Emergency shower | ANSI Z358-1<br>ISO 3864-1:2011, ISO 3864-4:2011 |  Eyewash stations | DIN 12 899<br>ISO 3864-1:2011, ISO 3864-4:2011 |

**Environmental exposure controls:**

To comply with environmental protection regulations, it is recommended to prevent any spillage of the product and its container. For more detailed information, please refer to subsection 7.1.D.

**Volatile organic compounds:**

With regard to Directive 2010/75/EU, this product has the following characteristics:

| | |
|---|---|
| V.O.C. (Supply): | 40,13 % weight |
| V.O.C. density at 20 ºC: | 402,37 kg/m³ (402,37 g/L) |
| Average carbon number: | 7,76 |
| Average molecular weight: | 150,13 g/mol |

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

For complete information see the product datasheet.

**Appearance:**

| | |
|---|---|
| Physical state at 20 ºC: | Liquid |
| Appearance: | Liquid impregnated into a solid support |
| Colour: | Characteristic |
| Odour: | Aromatic |
| Odour threshold: | Not relevant * |

**Volatility:**

| | |
|---|---|
| Boiling point at atmospheric pressure: | 198 ºC |
| Vapour pressure at 20 ºC: | 36 Pa |
| Vapour pressure at 50 ºC: | 279,48 Pa (0,28 kPa) |
| Evaporation rate at 20 ºC: | Not relevant * |

**Product description:**

| | |
|---|---|
| Density at 20 ºC: | 1002,7 kg/m³ |
| Relative density at 20 ºC: | 1,003 |
| Dynamic viscosity at 20 ºC: | Not relevant * |
| Kinematic viscosity at 20 ºC: | Not relevant * |
| Kinematic viscosity at 40 ºC: | >20,5 mm²/s |

*Not relevant due to the nature of the product, not providing information property of its hazards.

- CONTINUED ON NEXT PAGE -

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

| | |
|---|---|
| Concentration: | Not relevant * |
| pH: | Not relevant * |
| Vapour density at 20 ºC: | Not relevant * |
| Partition coefficient n-octanol/water 20 ºC: | Not relevant * |
| Solubility in water at 20 ºC: | Not relevant * |
| Solubility properties: | Insoluble in water |
| Decomposition temperature: | Not relevant * |
| Melting point/freezing point: | Not relevant * |
| **Flammability:** | |
| Flash Point: | 79 ºC (Does not maintain combustion) |
| Flammability (solid, gas): | Not relevant * |
| Autoignition temperature: | 235 ºC |
| Lower flammability limit: | Not relevant * |
| Upper flammability limit: | Not relevant * |
| **Particle characteristics:** | |
| Median equivalent diameter: | Not relevant * |

**9.2 Other information:**

**Information with regard to physical hazard classes:**

| | |
|---|---|
| Explosive properties: | Not relevant * |
| Oxidising properties: | Not relevant * |
| Corrosive to metals: | Not relevant * |
| Heat of combustion: | Not relevant * |
| Aerosols-total percentage (by mass) of flammable components: | Not relevant * |
| **Other safety characteristics:** | |
| Surface tension at 20 ºC: | Not relevant * |
| Refraction index: | Not relevant * |

*Not relevant due to the nature of the product, not providing information property of its hazards.

## SECTION 10: STABILITY AND REACTIVITY

**10.1 Reactivity:**

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet.

**10.2 Chemical stability:**

Chemically stable under the indicated conditions of storage, handling and use.

**10.3 Possibility of hazardous reactions:**

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

**10.4 Conditions to avoid:**

Applicable for handling and storage at room temperature:

| Shock and friction | Contact with air | Increase in temperature | Sunlight | Humidity |
|---|---|---|---|---|
| Precaution | Not applicable | Precaution | Precaution | Not applicable |

**10.5 Incompatible materials:**

| Acids | Water | Oxidising materials | Combustible materials | Others |
|---|---|---|---|---|
| Avoid strong acids | Not applicable | Avoid direct impact | Not applicable | Avoid alkalis or strong bases |

**10.6 Hazardous decomposition products:**

Contains substances which require external energy for spontaneous decomposition. Form explosive peroxides when distilled, evaporated or otherwise concentrated.

- CONTINUED ON NEXT PAGE -

## SECTION 11: TOXICOLOGICAL INFORMATION **

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

The experimental information related to the toxicological properties of the product itself is not available

Contains glycols. It is recommended not to breathe the vapours for prolonged periods of time due to the possibility of effects that are hazardous to the health .

**Dangerous health implications:**

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Produces skin inflammation.
- Contact with the eyes: Produces eye damage after contact.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.
  IARC: Eugenol (3)
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
- Skin: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.

F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

H- Aspiration hazard:

Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

**Other information:**

Not relevant

**Specific toxicology information on the substances:**

| Identification | Acute toxicity | | Genus |
|---|---|---|---|
| Dipropylene Glycol Methyl Ether<br>CAS: 34590-94-8<br>EC: 252-104-2 | LD50 oral | >5000 mg/kg | Rat |
| | LD50 dermal | 9510 mg/kg | Rabbit |
| | LC50 inhalation vapour | >20 mg/L | |

*** Changes with regards to the previous version*

- CONTINUED ON NEXT PAGE -

## SECTION 11: TOXICOLOGICAL INFORMATION ** (continued)

| Identification | Acute toxicity | | Genus |
|---|---|---|---|
| 4-tert-butylcyclohexyl acetate<br>CAS: 32210-23-4<br>EC: 250-954-9 | LD50 oral | 3370 mg/kg | |
| | LD50 dermal | >5000 mg/kg | |
| | LC50 inhalation vapour | >100 mg/L (4 h) | |
| 2,6-dimethyloct-7-en-2-ol<br>CAS: 18479-58-8<br>EC: 242-362-4 | LD50 oral | 3020 mg/kg | |
| | LD50 dermal | 5000 mg/kg | |
| | LC50 inhalation vapour | 100 mg/L (4 h) | |
| Linalool<br>CAS: 78-70-6<br>EC: 201-134-4 | LD50 oral | 2790 mg/kg | |
| | LD50 dermal | >5000 mg/kg | |
| | LC50 inhalation vapour | >100 mg/L (4 h) | |
| Linalyl acetate<br>CAS: 115-95-7<br>EC: 204-116-4 | LD50 oral | 14500 mg/kg | Rat |
| | LD50 dermal | 5610 mg/kg | Rabbit |
| | LC50 inhalation vapour | >20 mg/L | |
| Bornan-2-one<br>CAS: 76-22-2<br>EC: 200-945-0 | LD50 oral | 500 mg/kg | |
| | LD50 dermal | >2000 mg/kg | |
| | LC50 inhalation vapour | 11 mg/L | |
| Reaction mass of 3-(o-ethylphenyl)-2,2-dimethylpropionaldehyde and 3-(p-ethylphenyl)-2,2-dimethylpropionaldehyde<br>CAS: Not relevant<br>EC: 916-329-6 | LD50 oral | >2000 mg/kg | |
| | LD50 dermal | >2000 mg/kg | |
| | LC50 inhalation vapour | >20 mg/L | |
| Caryophyllene<br>CAS: 87-44-5<br>EC: 201-746-1 | LD50 oral | >5000 mg/kg | Rat |
| | LD50 dermal | >5000 mg/kg | |
| | LC50 inhalation vapour | >100 mg/L (4 h) | |
| 3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one<br>CAS: 127-51-5<br>EC: 204-846-3 | LD50 oral | >2000 mg/kg | |
| | LD50 dermal | >2000 mg/kg | |
| | LC50 inhalation vapour | >20 mg/L | |
| [3r-(3a,3aß,6ß,7ß,8aa)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1h-3a,7-methanoazulene<br>CAS: 2182025-97-2<br>EC: Not relevant | LD50 oral | >2000 mg/kg | |
| | LD50 dermal | >2000 mg/kg | |
| | LC50 inhalation vapour | >20 mg/L | |
| Reaction mass of 1-[(1R*,6S*)-2,2,6-trimethylcyclohexyl]hexan-3-ol and 1-[(1S*,6S*)-2,2,6-trimethylcyclohexyl]hexan-3-ol<br>CAS: Not relevant<br>EC: 947-716-8 | LD50 oral | 18000 mg/kg | Rat |
| | LD50 dermal | >2000 mg/kg | |
| | LC50 inhalation vapour | >20 mg/L | |
| Eugenol<br>CAS: 97-53-0<br>EC: 202-589-1 | LD50 oral | 2500 mg/kg | |
| | LD50 dermal | >5000 mg/kg | |
| | LC50 inhalation vapour | >100 mg/L (4 h) | |
| Reaction mass of 3,5-dimethylcyclohex-3-ene-1-carbaldehyde and 2,4-dimethylcyclohex-3-ene-1-carbaldehyde<br>CAS: Not relevant<br>EC: 943-728-2 | LD50 oral | 2330 mg/kg | |
| | LD50 dermal | >5000 mg/kg | Rabbit |
| | LC50 inhalation vapour | >20 mg/L | |
| Geraniol<br>CAS: 106-24-1<br>EC: 203-377-1 | LD50 oral | 3600 mg/kg | Rat |
| | LD50 dermal | >5000 mg/kg | Rabbit |
| | LC50 inhalation vapour | >100 mg/L (4 h) | |
| 2-methylundecanal<br>CAS: 110-41-8<br>EC: 203-765-0 | LD50 oral | >5000 mg/kg | |
| | LD50 dermal | >5000 mg/kg | |
| | LC50 inhalation vapour | >100 mg/L (4 h) | |
| (z)-hex-3-enyl benzoate<br>CAS: 25152-85-6<br>EC: 246-669-4 | LD50 oral | >5000 mg/kg | Rat |
| | LD50 dermal | >2000 mg/kg | |
| | LC50 inhalation vapour | >20 mg/L | |
| 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one<br>CAS: 57378-68-4<br>EC: 260-709-8 | LD50 oral | 1400 mg/kg | |
| | LD50 dermal | >5000 mg/kg | |
| | LC50 inhalation vapour | >100 mg/L (4 h) | |

**Acute Toxicity Estimate (ATE mix):**

*** Changes with regards to the previous version*

- CONTINUED ON NEXT PAGE -

## SECTION 11: TOXICOLOGICAL INFORMATION ** (continued)

| ATE mix | | Ingredient(s) of unknown toxicity |
|---|---|---|
| Oral | 35186,49 mg/kg (Calculation method) | 0 % |
| Dermal | >2000 mg/kg (Calculation method) | 0 % |
| LC50 inhalation vapour | 774,1 mg/L (4 h) (Calculation method) | 0 % |

**11.2 Information on other hazards:**

**Endocrine disrupting properties**

Endocrine-disrupting properties: The product does not meet the criteria.

**Other information**

Not relevant

*** Changes with regards to the previous version*

## SECTION 12: ECOLOGICAL INFORMATION **

The experimental information related to the eco-toxicological properties of the product itself is not available

Harmful to aquatic life with long lasting effects.

**12.1 Toxicity:**

**Acute toxicity:**

| Identification | Concentration | | Species | Genus |
|---|---|---|---|---|
| Dipropylene Glycol Methyl Ether | LC50 | 10000 mg/L (96 h) | Pimephales promelas | Fish |
| CAS: 34590-94-8 | EC50 | 1919 mg/L (48 h) | Daphnia magna | Crustacean |
| EC: 252-104-2 | EC50 | Not relevant | | |
| Linalool | LC50 | 27,8 mg/L (96 h) | Leuciscus idus | Fish |
| CAS: 78-70-6 | EC50 | 59 mg/L (48 h) | Daphnia magna | Crustacean |
| EC: 201-134-4 | EC50 | 122,5 mg/L (96 h) | Desmodesmus subspicatus | Algae |
| Linalyl acetate | LC50 | 11 mg/L (96 h) | Cyprinus carpio | Fish |
| CAS: 115-95-7 | EC50 | 15 mg/L (48 h) | Daphnia magna | Crustacean |
| EC: 204-116-4 | EC50 | 62 mg/L (72 h) | Desmodesmus subspicatus | Algae |
| Reaction mass of 3-(o-ethylphenyl)-2,2-dimethylpropionaldehyde and 3-(p-ethylphenyl)-2,2-dimethylpropionaldehyde | LC50 | 0,7 mg/L (96 h) | Oncorhynchus mykiss | Fish |
| CAS: Not relevant | EC50 | 0,87 mg/L (48 h) | Daphnia magna | Crustacean |
| EC: 916-329-6 | EC50 | 1,2 mg/L (72 h) | Pseudokirchneriella subcapitata | Algae |
| 3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one | LC50 | 1,428 mg/L (96 h) | Oncorhynchus mykiss | Fish |
| CAS: 127-51-5 | EC50 | 4,7 mg/L (48 h) | Daphnia magna | Crustacean |
| EC: 204-846-3 | EC50 | 20 mg/L (72 h) | Desmodesmus subspicatus | Algae |
| [3r-(3a,3aß,6ß,7ß,8aa)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1h-3a,7-methanoazulene | LC50 | >0.1 - 1 mg/L (96 h) | | Fish |
| CAS: 2182025-97-2 | EC50 | >0.1 - 1 mg/L (48 h) | | Crustacean |
| EC: Not relevant | EC50 | >0.1 - 1 mg/L (72 h) | | Algae |
| Reaction mass of 1-[(1R*,6S*)-2,2,6-trimethylcyclohexyl]hexan-3-ol and 1-[(1S*,6S*)-2,2,6-trimethylcyclohexyl]hexan-3-ol | LC50 | 1 mg/L (96 h) | Danio rerio | Fish |
| CAS: Not relevant | EC50 | 0,696 mg/L (48 h) | Daphnia magna | Crustacean |
| EC: 947-716-8 | EC50 | 1,1 mg/L (72 h) | Pseudokirchneriella subcapitata | Algae |
| Eugenol | LC50 | 60,8 mg/L (96 h) | Oncorhynchus mykiss | Fish |
| CAS: 97-53-0 | EC50 | Not relevant | | |
| EC: 202-589-1 | EC50 | Not relevant | | |
| Reaction mass of 3,5-dimethylcyclohex-3-ene-1-carbaldehyde and 2,4-dimethylcyclohex-3-ene-1-carbaldehyde | LC50 | 7,1 mg/L (96 h) | Oncorhynchus mykiss | Fish |
| CAS: Not relevant | EC50 | Not relevant | Daphnia magna | Crustacean |
| EC: 943-728-2 | EC50 | Not relevant | | |
| 2-methylundecanal | LC50 | 0,35 mg/L (96 h) | Oncorhynchus mykiss | Fish |
| CAS: 110-41-8 | EC50 | 0,21 mg/L (48 h) | Daphnia magna | Crustacean |
| EC: 203-765-0 | EC50 | 0,11 mg/L (72 h) | Pseudokirchneriella subcapitata | Algae |

*** Changes with regards to the previous version*

- CONTINUED ON NEXT PAGE -

## SECTION 12: ECOLOGICAL INFORMATION ** (continued)

| Identification | Concentration | | Species | Genus |
|---|---|---|---|---|
| (z)-hex-3-enyl benzoate | LC50 | Not relevant | | |
| CAS: 25152-85-6 | EC50 | 1,5 mg/L (48 h) | Daphnia magna | Crustacean |
| EC: 246-669-4 | EC50 | 1,3 mg/L (72 h) | Pseudokirchneriella subcapitata | Algae |
| 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one | LC50 | >0.1 - 1 mg/L (96 h) | | Fish |
| CAS: 57378-68-4 | EC50 | >0.1 - 1 mg/L (48 h) | | Crustacean |
| EC: 260-709-8 | EC50 | >0.1 - 1 mg/L (72 h) | | Algae |

**Chronic toxicity:**

| Identification | Concentration | | Species | Genus |
|---|---|---|---|---|
| Dipropylene Glycol Methyl Ether | NOEC | Not relevant | | |
| CAS: 34590-94-8 EC: 252-104-2 | NOEC | 0,5 mg/L | Daphnia magna | Crustacean |
| Reaction mass of 3-(o-ethylphenyl)-2,2-dimethylpropionaldehyde and 3-(p-ethylphenyl)-2,2-dimethylpropionaldehyde | NOEC | Not relevant | | |
| CAS: Not relevant EC: 916-329-6 | NOEC | 0,7 mg/L | Daphnia magna | Crustacean |
| 2-methylundecanal | NOEC | Not relevant | | |
| CAS: 110-41-8 EC: 203-765-0 | NOEC | 0,033 mg/L | Daphnia magna | Crustacean |

### 12.2 Persistence and degradability:

**Substance-specific information:**

| Identification | Degradability | | Biodegradability | |
|---|---|---|---|---|
| Dipropylene Glycol Methyl Ether | BOD5 | Not relevant | Concentration | Not relevant |
| CAS: 34590-94-8 | COD | 0 g O2/g | Period | 28 days |
| EC: 252-104-2 | BOD5/COD | Not relevant | % Biodegradable | 73 % |
| 2,6-dimethyloct-7-en-2-ol | BOD5 | Not relevant | Concentration | 10 mg/L |
| CAS: 18479-58-8 | COD | Not relevant | Period | 28 days |
| EC: 242-362-4 | BOD5/COD | Not relevant | % Biodegradable | 72 % |
| Linalool | BOD5 | Not relevant | Concentration | 100 mg/L |
| CAS: 78-70-6 | COD | Not relevant | Period | 28 days |
| EC: 201-134-4 | BOD5/COD | Not relevant | % Biodegradable | 90 % |
| Linalyl acetate | BOD5 | Not relevant | Concentration | 81 mg/L |
| CAS: 115-95-7 | COD | Not relevant | Period | 28 days |
| EC: 204-116-4 | BOD5/COD | Not relevant | % Biodegradable | 80 % |
| Reaction mass of 3-(o-ethylphenyl)-2,2-dimethylpropionaldehyde and 3-(p-ethylphenyl)-2,2-dimethylpropionaldehyde | BOD5 | Not relevant | Concentration | 2 mg/L |
| CAS: Not relevant | COD | Not relevant | Period | 28 days |
| EC: 916-329-6 | BOD5/COD | Not relevant | % Biodegradable | 2 % |
| Reaction mass of 1-[(1R*,6S*)-2,2,6-trimethylcyclohexyl] hexan-3-ol and 1-[(1S*,6S*)-2,2,6-trimethylcyclohexyl] hexan-3-ol | BOD5 | Not relevant | Concentration | 20 mg/L |
| CAS: Not relevant | COD | Not relevant | Period | 28 days |
| EC: 947-716-8 | BOD5/COD | Not relevant | % Biodegradable | 12,43 % |
| Geraniol | BOD5 | Not relevant | Concentration | 100 mg/L |
| CAS: 106-24-1 | COD | Not relevant | Period | 21 days |
| EC: 203-377-1 | BOD5/COD | Not relevant | % Biodegradable | 70 % |
| 2-methylundecanal | BOD5 | Not relevant | Concentration | 100 mg/L |
| CAS: 110-41-8 | COD | Not relevant | Period | 28 days |
| EC: 203-765-0 | BOD5/COD | Not relevant | % Biodegradable | 68 % |
| (z)-hex-3-enyl benzoate | BOD5 | Not relevant | Concentration | 2 mg/L |
| CAS: 25152-85-6 | COD | Not relevant | Period | 28 days |
| EC: 246-669-4 | BOD5/COD | Not relevant | % Biodegradable | 88 % |

### 12.3 Bioaccumulative potential:

**Substance-specific information:**

*** Changes with regards to the previous version*

- CONTINUED ON NEXT PAGE -

## SECTION 12: ECOLOGICAL INFORMATION ** (continued)

| Identification | Bioaccumulation potential | |
|---|---|---|
| Dipropylene Glycol Methyl Ether | BCF | 1 |
| CAS: 34590-94-8 | Pow Log | -0.06 |
| EC: 252-104-2 | Potential | Low |
| 2,6-dimethyloct-7-en-2-ol | BCF | |
| CAS: 18479-58-8 | Pow Log | 3.25 |
| EC: 242-362-4 | Potential | |
| Linalool | BCF | |
| CAS: 78-70-6 | Pow Log | 2.97 |
| EC: 201-134-4 | Potential | |
| Linalyl acetate | BCF | 174 |
| CAS: 115-95-7 | Pow Log | 3.9 |
| EC: 204-116-4 | Potential | High |
| Reaction mass of 3-(o-ethylphenyl)-2,2-dimethylpropionaldehyde and 3-(p-ethylphenyl)-2,2-dimethylpropionaldehyde | BCF | 132 |
| CAS: Not relevant | Pow Log | 3.01 |
| EC: 916-329-6 | Potential | High |
| Reaction mass of 1-[(1R*,6S*)-2,2,6-trimethylcyclohexyl]hexan-3-ol and 1-[(1S*,6S*)-2,2,6-trimethylcyclohexyl]hexan-3-ol | BCF | 222 |
| CAS: Not relevant | Pow Log | |
| EC: 947-716-8 | Potential | High |
| Eugenol | BCF | 31 |
| CAS: 97-53-0 | Pow Log | 2.27 |
| EC: 202-589-1 | Potential | Moderate |
| Geraniol | BCF | 110 |
| CAS: 106-24-1 | Pow Log | 3.56 |
| EC: 203-377-1 | Potential | High |
| 2-methylundecanal | BCF | |
| CAS: 110-41-8 | Pow Log | 5 |
| EC: 203-765-0 | Potential | |

**12.4 Mobility in soil:**

| Identification | Absorption/desorption | | Volatility | |
|---|---|---|---|---|
| Linalyl acetate | Koc | 518 | Henry | 177 Pa·m³/mol |
| CAS: 115-95-7 | Conclusion | Low | Dry soil | Yes |
| EC: 204-116-4 | Surface tension | Not relevant | Moist soil | Yes |
| Reaction mass of 3-(o-ethylphenyl)-2,2-dimethylpropionaldehyde and 3-(p-ethylphenyl)-2,2-dimethylpropionaldehyde | Koc | 1023 | Henry | Not relevant |
| CAS: Not relevant | Conclusion | Low | Dry soil | Not relevant |
| EC: 916-329-6 | Surface tension | Not relevant | Moist soil | Not relevant |
| Reaction mass of 1-[(1R*,6S*)-2,2,6-trimethylcyclohexyl] hexan-3-ol and 1-[(1S*,6S*)-2,2,6-trimethylcyclohexyl] hexan-3-ol | Koc | 2954.5 | Henry | 113,21 Pa·m³/mol |
| CAS: Not relevant | Conclusion | Low | Dry soil | Not relevant |
| EC: 947-716-8 | Surface tension | Not relevant | Moist soil | Not relevant |
| 2-methylundecanal | Koc | 4000 | Henry | Not relevant |
| CAS: 110-41-8 | Conclusion | Low | Dry soil | Not relevant |
| EC: 203-765-0 | Surface tension | Not relevant | Moist soil | Not relevant |

Insoluble in water

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

Product does not meet PBT/vPvB criteria

**12.6 Endocrine disrupting properties:**

Endocrine-disrupting properties: The product does not meet the criteria.

**12.7 Other adverse effects:**

*** Changes with regards to the previous version*

- CONTINUED ON NEXT PAGE -

## SECTION 12: ECOLOGICAL INFORMATION ** (continued)

Not described

*** Changes with regards to the previous version*

## SECTION 13: DISPOSAL CONSIDERATIONS

**13.1 Waste treatment methods:**

| Code | Description | Waste class (Regulation (EU) No 1357/2014) |
|---|---|---|
| 07 01 04* | other organic solvents, washing liquids and mother liquors | Hazardous |

**Type of waste (Regulation (EU) No 1357/2014):**

HP14 Ecotoxic, HP4 Irritant — skin irritation and eye damage

**Waste management (disposal and evaluation):**

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-hazardous residue. Waste should not be disposed of to drains. See paragraph 6.2.

**Regulations related to waste management:**

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

## SECTION 14: TRANSPORT INFORMATION

**Transport of dangerous goods by land:**

With regard to ADR 2025 and RID 2025:

| | | |
|---|---|---|
| **14.1** | **UN number or ID number:** | Not relevant |
| **14.2** | **UN proper shipping name:** | Not relevant |
| **14.3** | **Transport hazard class(es):** | Not relevant |
| | Labels: | Not relevant |
| **14.4** | **Packing group:** | Not relevant |
| **14.5** | **Environmental hazards:** | No |
| **14.6** | **Special precautions for user** | |
| | Special regulations: | Not relevant |
| | Tunnel restriction code: | Not relevant |
| | Physico-Chemical properties: | see section 9 |
| | Limited quantities: | Not relevant |
| **14.7** | **Maritime transport in bulk according to IMO instruments:** | Not relevant |

**Transport of dangerous goods by sea:**

With regard to IMDG 41-22:

- CONTINUED ON NEXT PAGE -

## SECTION 14: TRANSPORT INFORMATION (continued)

| | | |
|---|---|---|
| **14.1** | **UN number or ID number:** | Not relevant |
| **14.2** | **UN proper shipping name:** | Not relevant |
| **14.3** | **Transport hazard class(es):** | Not relevant |
| | Labels: | Not relevant |
| **14.4** | **Packing group:** | Not relevant |
| **14.5** | **Marine pollutant:** | No |
| **14.6** | **Special precautions for user** | |
| | Special regulations: | Not relevant |
| | EmS Codes: | |
| | Physico-Chemical properties: | see section 9 |
| | Limited quantities: | Not relevant |
| | Segregation group: | Not relevant |
| **14.7** | **Maritime transport in bulk according to IMO instruments:** | Not relevant |

**Transport of dangerous goods by air:**

With regard to IATA/ICAO 2025:

| | | |
|---|---|---|
| **14.1** | **UN number or ID number:** | Not relevant |
| **14.2** | **UN proper shipping name:** | Not relevant |
| **14.3** | **Transport hazard class(es):** | Not relevant |
| | Labels: | Not relevant |
| **14.4** | **Packing group:** | Not relevant |
| **14.5** | **Environmental hazards:** | No |
| **14.6** | **Special precautions for user** | |
| | Physico-Chemical properties: | see section 9 |
| **14.7** | **Maritime transport in bulk according to IMO instruments:** | Not relevant |

## SECTION 15: REGULATORY INFORMATION

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

- Article 95, REGULATION (EU) No 528/2012: *Geraniol (106-24-1) - PT: (18,19)*
- Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Not relevant
- Regulation (EU) 2019/1021 on persistent organic pollutants: Not relevant
- Regulation (EU) No 2024/590, about substances that deplete the ozone layer: Not relevant
- REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Not relevant
- Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Not relevant

**Seveso III:**

Not relevant

**Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc ....):**

Shall not be used in:
—ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
—tricks and jokes,
—games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

**Specific provisions in terms of protecting people or the environment:**

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

**Other legislation:**

The product could be affected by sectorial legislation

**15.2 Chemical safety assessment:**

The supplier has not carried out evaluation of chemical safety.

- CONTINUED ON NEXT PAGE -

## SECTION 16: OTHER INFORMATION

**Legislation related to safety data sheets:**

The SDS shall be supplied in an official language of the country where the product is placed on the market. This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (COMMISSION REGULATION (EU) 2020/878).

**Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:**

COMPOSITION/INFORMATION ON INGREDIENTS (SECTION 3, SECTION 11, SECTION 12):

· New declared substances
Bornan-2-one (76-22-2)
Reaction mass of 3-(o-ethylphenyl)-2,2-dimethylpropionaldehyde and 3-(p-ethylphenyl)-2,2-dimethylpropionaldehyde
[3r-(3a,3aß,6ß,7ß,8aa)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1h-3a,7-methanoazulene (2182025-97-2)

· Removed substances
Bornan-2-one (76-22-2)
3-(p-ethylphenyl)-2,2-dimethylpropionaldehyde (67634-15-5)
[3R-(3α,3aβ,6α,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene (67874-81-1)
Nerol (106-25-2)

**Texts of the legislative phrases mentioned in section 2:**

H317: May cause an allergic skin reaction.
H315: Causes skin irritation.
H412: Harmful to aquatic life with long lasting effects.
H319: Causes serious eye irritation.

**Texts of the legislative phrases mentioned in section 3:**

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

**CLP Regulation (EC) No 1272/2008:**

Acute Tox. 4: H302 - Harmful if swallowed.
Acute Tox. 4: H302+H332 - Harmful if swallowed or if inhaled.
Aquatic Acute 1: H400 - Very toxic to aquatic life.
Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.
Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.
Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways.
Eye Dam. 1: H318 - Causes serious eye damage.
Eye Irrit. 2: H319 - Causes serious eye irritation.
Flam. Sol. 2: H228 - Flammable solid.
Skin Irrit. 2: H315 - Causes skin irritation.
Skin Sens. 1: H317 - May cause an allergic skin reaction.
Skin Sens. 1A: H317 - May cause an allergic skin reaction.
Skin Sens. 1B: H317 - May cause an allergic skin reaction.
STOT SE 2: H371 - May cause damage to organs.
STOT SE 3: H336 - May cause drowsiness or dizziness.

**Classification procedure:**

Skin Sens. 1B: Calculation method
Skin Irrit. 2: Calculation method
Aquatic Chronic 3: Calculation method
Eye Irrit. 2: Calculation method

**Advice related to training:**

Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

**Principal bibliographical sources:**

http://echa.europa.eu
http://eur-lex.europa.eu

**Abbreviations and acronyms:**

- CONTINUED ON NEXT PAGE -

## SECTION 16: OTHER INFORMATION (continued)

ADR: European agreement concerning the international carriage of dangerous goods by road
IMDG: International maritime dangerous goods code
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
COD: Chemical Oxygen Demand
BOD5: 5day biochemical oxygen demand
BCF: Bioconcentration factor
LD50: Lethal Dose 50
LC50: Lethal Concentration 50
EC50: Effective concentration 50
LogPOW: Octanolwater partition coefficient
Koc: Partition coefficient of organic carbon
UFI: unique formula identifier
IARC: International Agency for Research on Cancer



- END OF SAFETY DATA SHEET -