# Pumpkin Pie

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 9/2/2021 Revision date: 2/19/2024 Supersedes version of: 8/11/2023 Version: 2.0

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

### 1.1. Product identifier

| | | |
|---|---|---|
| Product form | : | Mixture |
| Trade name | : | Pumpkin Pie |
| UFI | : | T5E6-K1SR-H00V-H1FQ |
| Product code | : | parf_pumpkin_pie |
| Type of product | : | Perfumes, fragrances |
| Product group | : | Trade product |

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

#### 1.2.1. Relevant identified uses

| | | |
|---|---|---|
| Main use category | : | Industrial use,Professional use |
| Industrial/Professional use spec | : | For professional use only<br>Industrial |
| Use of the substance/mixture | : | Perfumes, fragrances |
| Function or use category | : | Odour agents |

#### 1.2.2. Uses advised against

No additional information available

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

BAKED GAMES SRL
ROMANIA, BUCHAREST, SECTOR 4
+40771326626
contact@kitlumanari.ro | www.kitlumanari.ro

### 1.4. Emergency telephone number

| | | |
|---|---|---|
| Emergency number | : | 1-800-255-3924; +01-813-248-0585; China:+400-120-0751; Mexico:+01-800-099-0731; Brazil: +0-800-591-6042; India: +000-800-100-4086 |

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

| | |
|---|---|
| Acute toxicity (oral), Category 4 | H302 |
| Skin corrosion/irritation, Category 2 | H315 |
| Serious eye damage/eye irritation, Category 2 | H319 |
| Skin sensitisation, Category 1 | H317 |
| Hazardous to the aquatic environment – Acute Hazard, Category 1 | H400 |
| Hazardous to the aquatic environment – Chronic Hazard, Category 2 | H411 |

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

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

Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. Very toxic to aquatic life. Toxic to aquatic life with long lasting effects. May cause an allergic skin reaction.

### 2.2. Label elements

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

Hazard pictograms (CLP) :

GHS07 GHS09

Signal word (CLP) : Warning

Hazard statements (CLP) : H302 - Harmful if swallowed.
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) : P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 - Wash hands, forearms and face thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

Extra phrases : For professional users only.

### 2.3. Other hazards

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

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|---|---|
| benzyl benzoate | CAS-No.: 120-51-4<br>EC-No.: 204-402-9<br>EC Index-No.: 607-085-00-9<br>REACH-no: 01-2119976371-33 | 27.5 – 55 | Acute Tox. 4 (Oral), H302<br>Aquatic Acute 1, H400<br>Aquatic Chronic 2, H411 |
| Cinnamic aldehyde | CAS-No.: 104-55-2<br>EC-No.: 203-213-9<br>REACH-no: 01-2119935242-45 | 8.5075 – 17.0375 | Acute Tox. 4 (Dermal), H312<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1A, H317<br>Aquatic Chronic 3, H412 |
| Eugenol | CAS-No.: 97-53-0<br>EC-No.: 202-589-1<br>REACH-no: 01-2119971802-33 | 3.1625 – 6.4 | Acute Tox. 4 (Oral), H302<br>Eye Irrit. 2, H319<br>Skin Sens. 1B, H317 |
| Ethyl vanillin | CAS-No.: 121-32-4<br>EC-No.: 204-464-7<br>REACH-no: 01-211958961-24 | 2.5 – 5 | Eye Irrit. 2, H319 |

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|---|---|
| COUMARIN | CAS-No.: 91-64-5<br>EC-No.: 202-086-7<br>REACH-no: 01-2119943756-26 | 1.900015 – 3.80003 | Acute Tox. 3 (Oral), H301<br>Acute Tox. 3 (Dermal), H311<br>Acute Tox. 3 (Inhalation), H331<br>Skin Sens. 1, H317<br>Aquatic Chronic 2, H411 |
| Phenylethyl alcohol | CAS-No.: 60-12-8<br>EC-No.: 200-456-2<br>REACH-no: 01-2119963921-31 | 1.375 – 2.75 | Acute Tox. 4 (Oral), H302<br>Eye Irrit. 2, H319 |
| Terpineol | CAS-No.: 8000-41-7<br>EC-No.: 232-268-1 | 0.875 – 1.75 | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319 |
| Anisic aldehyde | CAS-No.: 123-11-5<br>EC-No.: 204-602-6<br>REACH-no: 01-2119977101-43 | 0.75 – 1.5 | Aquatic Chronic 3, H412 |
| Heliotropine | CAS-No.: 120-57-0<br>EC-No.: 204-409-7<br>REACH-no: 01-2119983608-21 | 0.625 – 1.25 | Skin Sens. 1B, H317 |
| Amyl cinnamic aldehyde | CAS-No.: 122-40-7<br>EC-No.: 204-541-5 | 0.5 – 1 | Skin Sens. 1B, H317<br>Aquatic Chronic 2, H411 |
| Ethyl maltol | CAS-No.: 4940-11-8<br>EC-No.: 225-582-5 | 0.5 – 1 | Acute Tox. 4 (Oral), H302 |
| 1,2-Cyclopentanedione, 3-methyl- | CAS-No.: 765-70-8<br>EC-No.: 212-154-8 | 0.25 – 0.5 | Acute Tox. 4 (Oral), H302<br>Skin Sens. 1, H317 |
| benzaldehyde<br>substance with national workplace exposure limit(s) (BG, FI, HU, LT, LV, PL) | CAS-No.: 100-52-7<br>EC-No.: 202-860-4<br>EC Index-No.: 605-012-00-5<br>REACH-no: 01-2119455540-44 | 0.25 – 0.5 | Acute Tox. 4 (Oral), H302 |
| Acetyl Propionyl<br>substance with national workplace exposure limit(s) (DE, SI, CH) | CAS-No.: 600-14-6<br>EC-No.: 209-984-8 | 0.25 – 0.5 | Flam. Liq. 2, H225<br>Eye Dam. 1, H318<br>Skin Sens. 1B, H317<br>STOT RE 2, H373 |
| benzyl alcohol<br>substance with national workplace exposure limit(s) (BG, CZ, DE, FI, LT, LV, PL, SI, CH) | CAS-No.: 100-51-6<br>EC-No.: 202-859-9<br>EC Index-No.: 603-057-00-5<br>REACH-no: 01-2119492630-38 | 0.2 – 0.4 | Acute Tox. 4 (Oral), H302<br>Acute Tox. 4 (Inhalation), H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319 |
| beta-Caryophyllene | CAS-No.: 87-44-5<br>EC-No.: 201-746-1<br>REACH-no: 01-2120745237-53 | 0.0825 – 0.225 | Skin Sens. 1B, H317<br>Asp. Tox. 1, H304 |
| .alpha.-Pinene<br>substance with national workplace exposure limit(s) (BE, EE, ES, LT, PT, SE, NO) | CAS-No.: 80-56-8<br>EC-No.: 201-291-9 | 0.01 – 0.053 | Flam. Liq. 3, H226 |
| .beta.-Pinene<br>substance with national workplace exposure limit(s) (BE, EE, ES, LT, PT, SE, NO) | CAS-No.: 127-91-3<br>EC-No.: 204-872-5 | 0.01 – 0.053 | Flam. Liq. 3, H226 |

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|---|---|
| (R)-p-mentha-1,8-diene; d-limonene<br>substance with national workplace exposure limit(s) (DE, ES, FI, SI, NO, CH) | CAS-No.: 5989-27-5<br>EC-No.: 205-341-0<br>EC Index-No.: 601-096-00-2<br>REACH-no: 01-2119493353-35 | 0.005 – 0.023 | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Skin Sens. 1B, H317<br>Asp. Tox. 1, H304<br>Aquatic Acute 1, H400<br>Aquatic Chronic 3, H412 |
| p-Cymene<br>substance with national workplace exposure limit(s) (DK, EE, LT, LV, SE) | CAS-No.: 99-87-6<br>EC-No.: 202-796-7<br>EC Index-No.: 601-094-00-1 | 0.001 – 0.01 | Flam. Liq. 3, H226<br>Acute Tox. 3 (Inhalation), H331<br>Acute Tox. 3 (Inhalation:dust,mist), H331<br>Repr. 2, H361<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411 |

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : Call a poison center or a doctor if you feel unwell.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth. Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects after skin contact : Irritation. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Eye irritation.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

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

Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.

#### 6.1.2. For emergency responders

| | | |
|---|---|---|
| Protective equipment | : | Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |

### 6.2. Environmental precautions

Avoid release to the environment.

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

| | | |
|---|---|---|
| For containment | : | Collect spillage. |
| Methods for cleaning up | : | Take up liquid spill into absorbent material. |
| Other information | : | Dispose of materials or solid residues at an authorized site. |

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

| | | |
|---|---|---|
| Precautions for safe handling | : | Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapours/spray. |
| Hygiene measures | : | Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. |

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

| | | |
|---|---|---|
| Storage conditions | : | Store in a well-ventilated place. Keep cool. |
| Storage temperature | : | 25 °C |
| Storage area | : | Store in a well-ventilated place. Store away from heat. |
| Special rules on packaging | : | Store in a closed container. |
| Packaging materials | : | Do not store in corrodable metal. |

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

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

| benzaldehyde (100-52-7) | |
|---|---|
| **Bulgaria - Occupational Exposure Limits** | |
| OEL TWA | 5 mg/m³ |
| **Finland - Occupational Exposure Limits** | |
| HTP (OEL TWA) | 4.4 mg/m³ |
| | 1 ppm |
| HTP (OEL C) | 17.4 mg/m³ |
| | 4 ppm |
| **Hungary - Occupational Exposure Limits** | |
| AK (OEL TWA) | 5 mg/m³ |
| CK (OEL STEL) | 10 mg/m³ |

| benzaldehyde (100-52-7) | |
|---|---|
| **Latvia - Occupational Exposure Limits** | |
| OEL TWA | 5 mg/m³ |
| **Lithuania - Occupational Exposure Limits** | |
| IPRV (OEL TWA) | 5 mg/m³ |
| **Poland - Occupational Exposure Limits** | |
| NDS (OEL TWA) | 10 mg/m³ |
| NDSCh (OEL STEL) | 40 mg/m³ |

| Acetyl Propionyl (600-14-6) | |
|---|---|
| **Germany - Occupational Exposure Limits (TRGS 900)** | |
| AGW (OEL TWA) | 0.083 mg/m³ |
| | 0.02 ppm |
| Chemical category | Skin notation, Skin sensitization |
| **Slovenia - Occupational Exposure Limits** | |
| OEL TWA | 0.083 mg/m³ |
| | 0.02 ppm |
| OEL STEL | 0.083 mg/m³ |
| | 0.02 ppm |
| OEL chemical category | Potential for cutaneous absorption |
| **Switzerland - Occupational Exposure Limits** | |
| MAK (OEL TWA) | 0.08 mg/m³ |
| | 0.02 ppm |
| KZGW (OEL STEL) | 0.16 mg/m³ |
| | 0.04 ppm |
| OEL chemical category | Sensitizer, Skin notation |

| benzyl alcohol (100-51-6) | |
|---|---|
| **Bulgaria - Occupational Exposure Limits** | |
| OEL TWA | 5 mg/m³ |
| **Czech Republic - Occupational Exposure Limits** | |
| PEL (OEL TWA) | 40 mg/m³ |
| **Finland - Occupational Exposure Limits** | |
| HTP (OEL TWA) | 45 mg/m³ |
| | 10 ppm |
| **Germany - Occupational Exposure Limits (TRGS 900)** | |
| AGW (OEL TWA) | 22 mg/m³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) |
| | 5 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) |
| Chemical category | Skin notation |

| benzyl alcohol (100-51-6) | |
|---|---|
| **Latvia - Occupational Exposure Limits** | |
| OEL TWA | 5 mg/m³ |
| **Lithuania - Occupational Exposure Limits** | |
| IPRV (OEL TWA) | 5 mg/m³ |
| OEL chemical category | Skin notation |
| **Poland - Occupational Exposure Limits** | |
| NDS (OEL TWA) | 240 mg/m³ |
| **Slovenia - Occupational Exposure Limits** | |
| OEL TWA | 22 mg/m³ |
| | 5 ppm |
| OEL STEL | 44 mg/m³ |
| | 10 ppm |
| OEL chemical category | Potential for cutaneous absorption |
| **Switzerland - Occupational Exposure Limits** | |
| MAK (OEL TWA) | 22 mg/m³ (aerosol, vapour) |
| | 5 ppm (aerosol, vapour) |
| OEL chemical category | Skin notation |

| (R)-p-mentha-1,8-diene; d-limonene (5989-27-5) | |
|---|---|
| **Finland - Occupational Exposure Limits** | |
| HTP (OEL TWA) | 140 mg/m³ |
| | 25 ppm |
| HTP (OEL STEL) | 280 mg/m³ |
| | 50 ppm |
| **Germany - Occupational Exposure Limits (TRGS 900)** | |
| AGW (OEL TWA) | 28 mg/m³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) |
| | 5 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) |
| Chemical category | Skin notation, Skin sensitization |
| **Slovenia - Occupational Exposure Limits** | |
| OEL TWA | 28 mg/m³ |
| | 5 ppm |
| OEL STEL | 112 mg/m³ |
| | 20 ppm |
| OEL chemical category | Potential for cutaneous absorption |
| **Spain - Occupational Exposure Limits** | |
| VLA-ED (OEL TWA) | 168 mg/m³ |
| | 30 ppm |
| OEL chemical category | Sensitizer, skin - potential for cutaneous absorption |

| (R)-p-mentha-1,8-diene; d-limonene (5989-27-5) | |
|---|---|
| **Norway - Occupational Exposure Limits** | |
| Grenseverdi (OEL TWA) | 140 mg/m³ |
| | 25 ppm |
| Korttidsverdi (OEL STEL) | 175 mg/m³ (value calculated) |
| | 37.5 ppm (value calculated) |
| OEL chemical category | Allergenic substance |
| **Switzerland - Occupational Exposure Limits** | |
| MAK (OEL TWA) | 40 mg/m³ |
| | 7 ppm |
| KZGW (OEL STEL) | 80 mg/m³ |
| | 14 ppm |
| OEL chemical category | Sensitizer |

| .alpha.-Pinene (80-56-8) | |
|---|---|
| **Belgium - Occupational Exposure Limits** | |
| OEL TWA | 20 ppm |
| **Estonia - Occupational Exposure Limits** | |
| OEL TWA | 150 mg/m³ (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect) |
| | 25 ppm (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect) |
| OEL STEL | 300 mg/m³ (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect) |
| | 50 ppm (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect) |
| **Lithuania - Occupational Exposure Limits** | |
| IPRV (OEL TWA) | 150 mg/m³ |
| | 25 ppm |
| TPRV (OEL STEL) | 300 mg/m³ |
| | 50 ppm |
| **Portugal - Occupational Exposure Limits** | |
| OEL TWA | 20 ppm (Turpentine and selected Monoterpenes) |
| OEL chemical category | Sensitizer dermal, A4 - Not Classifiable as a Human Carcinogen |
| **Spain - Occupational Exposure Limits** | |
| VLA-ED (OEL TWA) | 113 mg/m³ |
| | 20 ppm |
| OEL chemical category | Sensitizer |
| **Sweden - Occupational Exposure Limits** | |
| NGV (OEL TWA) | 150 mg/m³ |
| | 25 ppm |
| KGV (OEL STEL) | 300 mg/m³ |

| .alpha.-Pinene (80-56-8) | |
|---|---|
| | 50 ppm |
| OEL chemical category | Sensitizer |
| **Norway - Occupational Exposure Limits** | |
| Grenseverdi (OEL TWA) | 140 mg/m³ |
| | 25 ppm |
| Korttidsverdi (OEL STEL) | 175 mg/m³ (value calculated) |
| | 37.5 ppm (value calculated) |
| OEL chemical category | Skin notation |
| **USA - ACGIH - Occupational Exposure Limits** | |
| ACGIH OEL TWA | 20 ppm (Turpentine and selected Monoterpenes) |
| ACGIH chemical category | Not Classifiable as a Human Carcinogen, dermal sensitizer |

| .beta.-Pinene (127-91-3) | |
|---|---|
| **Belgium - Occupational Exposure Limits** | |
| OEL TWA | 20 ppm |
| **Estonia - Occupational Exposure Limits** | |
| OEL TWA | 150 mg/m³ (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect) |
| | 25 ppm (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect) |
| OEL STEL | 300 mg/m³ (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect) |
| | 50 ppm (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect) |
| **Lithuania - Occupational Exposure Limits** | |
| IPRV (OEL TWA) | 150 mg/m³ |
| | 25 ppm |
| TPRV (OEL STEL) | 300 mg/m³ |
| | 50 ppm |
| **Portugal - Occupational Exposure Limits** | |
| OEL TWA | 20 ppm (Turpentine and selected Monoterpenes) |
| OEL chemical category | Sensitizer dermal, A4 - Not Classifiable as a Human Carcinogen |
| **Spain - Occupational Exposure Limits** | |
| VLA-ED (OEL TWA) | 113 mg/m³ |
| | 20 ppm |
| OEL chemical category | Sensitizer |
| **Sweden - Occupational Exposure Limits** | |
| NGV (OEL TWA) | 150 mg/m³ |
| | 25 ppm |
| KGV (OEL STEL) | 300 mg/m³ |
| | 50 ppm |

| .beta.-Pinene (127-91-3) | |
|---|---|
| OEL chemical category | Sensitizer |
| **Norway - Occupational Exposure Limits** | |
| Grenseverdi (OEL TWA) | 140 mg/m³ |
| | 25 ppm |
| Korttidsverdi (OEL STEL) | 175 mg/m³ (value calculated) |
| | 37.5 ppm (value calculated) |
| **USA - ACGIH - Occupational Exposure Limits** | |
| ACGIH OEL TWA | 20 ppm (Turpentine and selected Monoterpenes) |
| ACGIH chemical category | Not Classifiable as a Human Carcinogen, dermal sensitizer |

| p-Cymene (99-87-6) | |
|---|---|
| **Denmark - Occupational Exposure Limits** | |
| OEL TWA | 135 mg/m³ (Methylisopropylbenzenes) |
| | 25 ppm (Methylisopropylbenzenes) |
| OEL STEL | 270 mg/m³ (Methylisopropylbenzenes) |
| | 50 ppm (Methylisopropylbenzenes) |
| **Estonia - Occupational Exposure Limits** | |
| OEL TWA | 140 mg/m³ |
| | 25 ppm |
| OEL STEL | 190 mg/m³ |
| | 35 ppm |
| **Latvia - Occupational Exposure Limits** | |
| OEL TWA | 10 mg/m³ (Cymene (2, 3, 4-isomers mixture)) |
| **Lithuania - Occupational Exposure Limits** | |
| IPRV (OEL TWA) | 140 mg/m³ |
| | 25 ppm |
| TPRV (OEL STEL) | 190 mg/m³ |
| | 35 ppm |
| **Sweden - Occupational Exposure Limits** | |
| NGV (OEL TWA) | 140 mg/m³ |
| | 25 ppm |
| KGV (OEL STEL) | 190 mg/m³ |
| | 35 ppm |

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

**Appropriate engineering controls:**
Ensure good ventilation of the work station.

### 8.2.2. Personal protection equipment

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

### 8.2.2.1. Eye and face protection

**Eye protection:**
Safety glasses

### 8.2.2.2. Skin protection

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

**Hand protection:**
Protective gloves

### 8.2.2.3. Respiratory protection

**Respiratory protection:**
In case of insufficient ventilation, wear suitable respiratory equipment

### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

**Environmental exposure controls:**
Avoid release to the environment.

# SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

| | | |
|---|---|---|
| Physical state | : | Liquid |
| Colour | : | light yellow. amber. Conforms to standard. |
| Odour | : | characteristic. characteristic. |
| Odour threshold | : | Not available |
| Melting point | : | Not applicable |
| Freezing point | : | Not available |
| Boiling point | : | Not available |
| Flammability | : | Not applicable |
| Lower explosion limit | : | Not available |
| Upper explosion limit | : | Not available |
| Flash point | : | > 93 °C (closed cup) ASTM D7094 |
| Auto-ignition temperature | : | Not available |
| Decomposition temperature | : | Not available |
| pH | : | Not available |
| Viscosity, kinematic | : | Not available |
| Solubility | : | Not available |
| Partition coefficient n-octanol/water (Log Kow) | : | Not available |
| Vapour pressure | : | Not available |
| Vapour pressure at 50°C | : | Not available |
| Density | : | Not available |
| Relative density | : | ≈ 0.97 |

Relative vapour density at 20°C : Not available
Particle characteristics : Not applicable

### 9.2. Other information

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

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

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

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

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

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

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

## SECTION 11: Toxicological information

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

Acute toxicity (oral) : Harmful if swallowed.
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

| **Pumpkin Pie** | |
|---|---|
| ATE CLP (oral) | 649.928 mg/kg bodyweight |

| **benzyl benzoate (120-51-4)** | |
|---|---|
| LD50 oral rat | 500 mg/kg (Source: NLM_CIP) |
| LD50 oral | 1160 mg/kg bodyweight |
| LD50 dermal rabbit | 4000 mg/kg (Source: NLM_CIP) |

| **Cinnamic aldehyde (104-55-2)** | |
|---|---|
| LD50 oral rat | 2220 mg/kg (Source: NLM_CIP) |
| LD50 oral | 2200 mg/kg bodyweight |
| LD50 dermal rabbit | 1260 mg/kg (Source: EPA_HPV) |
| LD50 dermal | 1100 mg/kg bodyweight |

| **Eugenol (97-53-0)** | |
|---|---|
| LD50 oral rat | 1930 mg/kg (Source: NZ_CCID) |
| LD50 oral | 2500 mg/kg bodyweight |
| **Ethyl vanillin (121-32-4)** | |
| LD50 oral rat | 1590 mg/kg (Source: NLM_CIP) |
| LD50 oral | 3000 mg/kg bodyweight |
| LD50 dermal rat | > 2000 mg/kg (Source: ECHA_API) |
| **COUMARIN (91-64-5)** | |
| LD50 oral rat | > 5000 mg/kg (Source: JAPAN_GHS) |
| LD50 oral | 290 mg/kg bodyweight |
| LD50 dermal rat | 293 mg/kg (Source: ECHA_API) |
| **Phenylethyl alcohol (60-12-8)** | |
| LD50 oral rat | 1609 mg/kg (Source: EPA_HPV) |
| LD50 oral | 1610 mg/kg bodyweight |
| LD50 dermal rabbit | 2535 mg/kg (Source: EPA_HPV) |
| LD50 dermal | 2500 mg/kg bodyweight |
| LC50 Inhalation - Rat | > 4.63 mg/l/4h |
| **Terpineol (8000-41-7)** | |
| LD50 oral rat | 2900 mg/kg (Source: IUCLID) |
| LD50 oral | 4300 mg/kg bodyweight |
| LD50 dermal rabbit | > 3000 mg/kg (Source: IUCLID) |
| **Anisic aldehyde (123-11-5)** | |
| LD50 oral rat | 3210 mg/kg (Source: ECHA) |
| LD50 oral | 3210 mg/kg bodyweight |
| LD50 dermal rabbit | > 5000 mg/kg (Source: EPA_HPV) |
| LC50 Inhalation - Rat | > 0.32 mg/l (Exposure time: 7 h Source: ECHA) |
| **Heliotropine (120-57-0)** | |
| LD50 oral rat | 2700 mg/kg (Source: NLM_CIP) |
| LD50 oral | 2700 mg/kg bodyweight |
| LD50 dermal rat | > 5000 mg/kg (Source: ECHA_API) |
| **Amyl cinnamic aldehyde (122-40-7)** | |
| LD50 oral rat | 3730 mg/kg (Source: CHEMVIEW) |
| LD50 dermal rabbit | > 2000 mg/kg (Source: CHEMVIEW) |
| **Ethyl maltol (4940-11-8)** | |
| LD50 oral rat | 1150 mg/kg (Source: NLM_CIP) |
| LD50 oral | 1200 mg/kg bodyweight |
| LD50 dermal rabbit | > 5000 mg/kg (Source: ECHA_API) |

| 1,2-Cyclopentanedione, 3-methyl- (765-70-8) | |
|---|---|
| LD50 oral | 1067 mg/kg bodyweight |

| benzaldehyde (100-52-7) | |
|---|---|
| LD50 oral rat | 1292 mg/kg (Source: JAPAN_GHS) |
| LD50 dermal rabbit | > 1250 mg/kg (Source: JAPAN_GHS) |

| Acetyl Propionyl (600-14-6) | |
|---|---|
| LD50 oral rat | 3 g/kg (Source: NLM_CIP) |
| LD50 oral | 3000 mg/kg bodyweight |
| LD50 dermal rabbit | > 2000 mg/kg (Source: NIOSH) |
| LD50 dermal | 2500 mg/kg bodyweight |

| benzyl alcohol (100-51-6) | |
|---|---|
| LD50 oral rat | 1230 mg/kg (Source: NLM_CIP) |
| LD50 oral | 1620 mg/kg bodyweight |
| LD50 dermal | 2500 mg/kg bodyweight |

| (R)-p-mentha-1,8-diene; d-limonene (5989-27-5) | |
|---|---|
| LD50 oral rat | 4400 mg/kg (Source: CHEMVIEW) |
| LD50 dermal rabbit | > 5 g/kg (Source: CHEMVIEW) |

| .alpha.-Pinene (80-56-8) | |
|---|---|
| LD50 oral rat | 3700 mg/kg (Source: NLM_CIP) |
| LD50 oral | 500 mg/kg bodyweight |
| LD50 dermal rat | > 5000 mg/kg (Source: CHEMVIEW) |

| .beta.-Pinene (127-91-3) | |
|---|---|
| LD50 oral rat | > 5000 mg/kg (Source: EPA_HPV) |
| LD50 dermal rabbit | > 5000 mg/kg (Source: CHEMVIEW) |

| p-Cymene (99-87-6) | |
|---|---|
| LD50 oral rat | 4750 mg/kg (Source: NLM_CIP) |
| LD50 oral | 4750 mg/kg bodyweight |
| LD50 dermal rabbit | > 5000 mg/kg (Source: CHEMVIEW) |
| LC50 Inhalation - Rat | > 9.7 mg/l (Exposure time: 5 h Source: EU_CLH) |
| LC50 Inhalation - Rat (Vapours) | 9.7 mg/l/4h |

Skin corrosion/irritation : Causes skin irritation.
Serious eye damage/irritation : Causes serious eye irritation.
Respiratory or skin sensitisation : May cause an allergic skin reaction.
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

| Eugenol (97-53-0) | |
|---|---|
| IARC group | 3 - Not classifiable |

| COUMARIN (91-64-5) | |
|---|---|
| IARC group | 3 - Not classifiable |

| (R)-p-mentha-1,8-diene; d-limonene (5989-27-5) | |
|---|---|
| IARC group | 3 - Not classifiable |

Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified

| Acetyl Propionyl (600-14-6) | |
|---|---|
| STOT-repeated exposure | May cause damage to organs through prolonged or repeated exposure. |

Aspiration hazard : Not classified

| benzyl benzoate (120-51-4) | |
|---|---|
| Viscosity, kinematic | 7.456 mm²/s |

| Heliotropine (120-57-0) | |
|---|---|
| Viscosity, kinematic | Not applicable |

### 11.2. Information on other hazards

#### 11.2.1. Endocrine disrupting properties

No additional information available

#### 11.2.2. Other information

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

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

| benzyl benzoate (120-51-4) | |
|---|---|
| LC50 - Fish [1] | 2.32 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static] Source: ECHA) |
| NOEC (chronic) | 0.168 mg/l |

| Eugenol (97-53-0) | |
|---|---|
| LC50 - Fish [1] | 13 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static] Source: ECHA) |

| Ethyl vanillin (121-32-4) | |
|---|---|
| LC50 - Fish [1] | 81.4 – 94.3 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA) |

| Phenylethyl alcohol (60-12-8) | |
|---|---|
| EC50 - Crustacea [1] | 287.17 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| EC50 72h - Algae [1] | 490 mg/l (Species: Desmodesmus subspicatus) |

| Heliotropine (120-57-0) | |
|---|---|
| LC50 - Fish [1] | 2.5 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [static] Source: ECHA) |

| Ethyl maltol (4940-11-8) | |
|---|---|
| LC50 - Fish [1] | > 85 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: ECHA) |

| benzaldehyde (100-52-7) | |
|---|---|
| LC50 - Fish [1] | 10.6 – 11.8 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through] Source: EPA) |
| LC50 - Fish [2] | 12.69 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static] Source: IUCLID) |

| benzyl alcohol (100-51-6) | |
|---|---|
| LC50 - Fish [1] | 460 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: EPA) |
| LC50 - Fish [2] | 10 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: EPA) |
| EC50 - Crustacea [1] | 23 mg/l (Exposure time: 48 h - Species: water flea) |

| (R)-p-mentha-1,8-diene; d-limonene (5989-27-5) | |
|---|---|
| LC50 - Fish [1] | 0.619 – 0.796 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA) |
| LC50 - Fish [2] | 35 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: EPA) |

| .alpha.-Pinene (80-56-8) | |
|---|---|
| LC50 - Fish [1] | 0.28 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: IUCLID) |
| EC50 - Crustacea [1] | 41 mg/l (Exposure time: 48 h - Species: Daphnia magna) |

## 12.2. Persistence and degradability

| Pumpkin Pie | |
|---|---|
| Persistence and degradability | Rapidly degradable |

| benzyl benzoate (120-51-4) | |
|---|---|
| Persistence and degradability | May cause long-term adverse effects in the environment. |

| Cinnamic aldehyde (104-55-2) | |
|---|---|
| Persistence and degradability | Rapidly degradable |

| Eugenol (97-53-0) | |
|---|---|
| Persistence and degradability | Rapidly degradable |

| Ethyl vanillin (121-32-4) | |
|---|---|
| Persistence and degradability | Rapidly degradable |

| COUMARIN (91-64-5) | |
|---|---|
| Persistence and degradability | Rapidly degradable |

| Phenylethyl alcohol (60-12-8) | |
|---|---|
| Persistence and degradability | Rapidly degradable |

| Terpineol (8000-41-7) | |
|---|---|
| Persistence and degradability | Rapidly degradable |

| Anisic aldehyde (123-11-5) | |
|---|---|
| Persistence and degradability | Rapidly degradable |

| Heliotropine (120-57-0) | |
|---|---|
| Persistence and degradability | Rapidly degradable |

| Amyl cinnamic aldehyde (122-40-7) | |
|---|---|
| Persistence and degradability | Rapidly degradable |

| Ethyl maltol (4940-11-8) | |
|---|---|
| Persistence and degradability | Rapidly degradable |

| 1,2-Cyclopentanedione, 3-methyl- (765-70-8) | |
|---|---|
| Persistence and degradability | Rapidly degradable |

| benzaldehyde (100-52-7) | |
|---|---|
| Persistence and degradability | Rapidly degradable |

| Acetyl Propionyl (600-14-6) | |
|---|---|
| Persistence and degradability | Rapidly degradable |

| benzyl alcohol (100-51-6) | |
|---|---|
| Persistence and degradability | Rapidly degradable |

| (R)-p-mentha-1,8-diene; d-limonene (5989-27-5) | |
|---|---|
| Persistence and degradability | Rapidly degradable |

| .alpha.-Pinene (80-56-8) | |
|---|---|
| Persistence and degradability | Rapidly degradable |

| .beta.-Pinene (127-91-3) | |
|---|---|
| Persistence and degradability | Rapidly degradable |

| beta-Caryophyllene (87-44-5) | |
|---|---|
| Persistence and degradability | Rapidly degradable |

| p-Cymene (99-87-6) | |
|---|---|
| Persistence and degradability | Rapidly degradable |

### 12.3. Bioaccumulative potential

| benzyl benzoate (120-51-4) | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | 3.97 (at 25 °C) |
| Bioaccumulative potential | Not established. |

| Cinnamic aldehyde (104-55-2) | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | 2.1065 (at 25 °C) |

| Eugenol (97-53-0) | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | 1.83 (at 30 °C (at pH 5.5) |

| Ethyl vanillin (121-32-4) | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | 1.61 (at 25 °C) |

| Phenylethyl alcohol (60-12-8) | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | 1.36 (at 20 °C (at pH 7) |

| Anisic aldehyde (123-11-5) | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | 1.56 (at 25 °C (at pH >7.9-<8.25) |

| Heliotropine (120-57-0) | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | 1.2 (at 35 °C) |

| Amyl cinnamic aldehyde (122-40-7) | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | 2.498 (at 25 °C (at pH 6.2) |

| Ethyl maltol (4940-11-8) | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | 2.9 (at 25 °C) |

| benzaldehyde (100-52-7) | |
|---|---|
| BCF - Fish [1] | (no significant bioaccumulation) |
| Partition coefficient n-octanol/water (Log Pow) | 1.4 (at 25 °C) |

| benzyl alcohol (100-51-6) | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | 1.05 |

| (R)-p-mentha-1,8-diene; d-limonene (5989-27-5) | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | 4.38 (at 37 °C (at pH 7.2) |

| .alpha.-Pinene (80-56-8) | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | 4.1 |

| beta-Caryophyllene (87-44-5) | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | 6.23 (at 25 °C (at pH 7) |

| p-Cymene (99-87-6) | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | 4.8 (at 20 °C (at pH 7) |
| Partition coefficient n-octanol/water (Log Kow) | 0 |

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

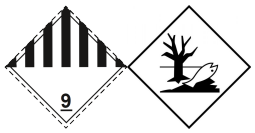
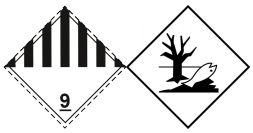
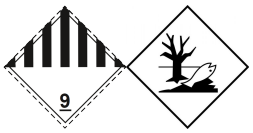
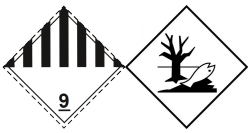
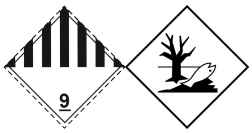
### 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

HP Code : HP6 - "Acute Toxicity:" waste which can cause acute toxic effects following oral or dermal administration, or inhalation exposure.
HP4 - "Irritant – skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye.
HP13 - "Sensitising:" waste which contains one or more substances known to cause sensitising effects to the skin or the respiratory organs.
HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment

## SECTION 14: Transport information

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

| ADR | IMDG | IATA | ADN | RID |
|---|---|---|---|---|
| **14.1. UN number or ID number** | | | | |
| UN 3082 | UN 3082 | UN 3082 | UN 3082 | UN 3082 |
| **14.2. UN proper shipping name** | | | | |
| ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzyl benzoate) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzyl benzoate) | Environmentally hazardous substance, liquid, n.o.s. (Benzyl benzoate) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzyl benzoate) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzyl benzoate) |
| **Transport document description** | | | | |
| UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzyl benzoate), 9, III, (-) | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzyl benzoate), 9, III, MARINE POLLUTANT | UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Benzyl benzoate), 9, III | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzyl benzoate), 9, III | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzyl benzoate), 9, III |
| **14.3. Transport hazard class(es)** | | | | |
| 9 | 9 | 9 | 9 | 9 |
|  |  |  |  |  |
| **14.4. Packing group** | | | | |
| III | III | III | III | III |
| **14.5. Environmental hazards** | | | | |
| Dangerous for the environment: Yes | Dangerous for the environment: Yes<br>Marine pollutant: Yes | Dangerous for the environment: Yes | Dangerous for the environment: Yes | Dangerous for the environment: Yes |
| No supplementary information available | | | | |

### 14.6. Special precautions for user

**Overland transport**

| | | |
|---|---|---|
| Classification code (ADR) | : | M6 |
| Special provisions (ADR) | : | 274, 335, 375, 601 |
| Limited quantities (ADR) | : | 5l |
| Excepted quantities (ADR) | : | E1 |
| Packing instructions (ADR) | : | P001, IBC03, LP01, R001 |
| Special packing provisions (ADR) | : | PP1 |
| Mixed packing provisions (ADR) | : | MP19 |
| Portable tank and bulk container instructions (ADR) | : | T4 |
| Portable tank and bulk container special provisions (ADR) | : | TP1, TP29 |
| Tank code (ADR) | : | LGBV |
| Vehicle for tank carriage | : | AT |
| Transport category (ADR) | : | 3 |
| Special provisions for carriage - Packages (ADR) | : | V12 |
| Special provisions for carriage - Loading, unloading and handling (ADR) | : | CV13 |
| Hazard identification number (Kemler No.) | : | 90 |

Orange plates : 


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

### Transport by sea

Special provisions (IMDG) : 274, 335, 969
Limited quantities (IMDG) : 5 L
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : LP01, P001
Special packing provisions (IMDG) : PP1
IBC packing instructions (IMDG) : IBC03
Tank instructions (IMDG) : T4
Tank special provisions (IMDG) : TP1, TP29
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-F
Stowage category (IMDG) : A

### Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y964
PCA limited quantity max net quantity (IATA) : 30kgG
PCA packing instructions (IATA) : 964
PCA max net quantity (IATA) : 450L
CAO packing instructions (IATA) : 964
CAO max net quantity (IATA) : 450L
Special provisions (IATA) : A97, A158, A197, A215
ERG code (IATA) : 9L

### Inland waterway transport

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

### Rail transport

Classification code (RID) : M6
Special provisions (RID) : 274, 335, 375, 601
Limited quantities (RID) : 5L
Excepted quantities (RID) : E1
Packing instructions (RID) : P001, IBC03, LP01, R001
Special packing provisions (RID) : PP1
Mixed packing provisions (RID) : MP19
Portable tank and bulk container instructions (RID) : T4
Portable tank and bulk container special provisions (RID) : TP1, TP29
Tank codes for RID tanks (RID) : LGBV
Transport category (RID) : 3
Special provisions for carriage – Packages (RID) : W12
Special provisions for carriage - Loading, unloading and handling (RID) : CW13, CW31
Colis express (express parcels) (RID) : CE8
Hazard identification number (RID) : 90

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

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

**REACH Annex XVII (Restriction List)**

| EU restriction list (REACH Annex XVII) | | |
|---|---|---|
| **Reference code** | **Applicable on** | **Entry title or description** |
| 3(a) | Acetyl Propionyl ; (R)-p-mentha-1,8-diene; d-limonene ; .alpha.-Pinene ; .beta.-Pinene ; p-Cymene | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F |
| 3(b) | Pumpkin Pie ; benzyl benzoate ; Cinnamic aldehyde ; Eugenol ; Phenylethyl alcohol ; Terpineol ; Amyl cinnamic aldehyde ; benzaldehyde ; Acetyl Propionyl ; benzyl alcohol ; (R)-p-mentha-1,8-diene; d-limonene ; p-Cymene | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10 |
| 3(c) | Pumpkin Pie ; benzyl benzoate ; Cinnamic aldehyde ; Anisic aldehyde ; Amyl cinnamic aldehyde ; (R)-p-mentha-1,8-diene; d-limonene ; p-Cymene | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1 |
| 40. | Acetyl Propionyl ; (R)-p-mentha-1,8-diene; d-limonene ; .alpha.-Pinene ; .beta.-Pinene ; p-Cymene | Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not. |

**REACH Annex XIV (Authorisation List)**

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

**REACH Candidate List (SVHC)**

Contains no substance(s) listed on the REACH Candidate List

**PIC Regulation (Prior Informed Consent)**

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

**POP Regulation (Persistent Organic Pollutants)**

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

**Ozone Regulation (1005/2009)**

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

**Dual-Use Regulation (428/2009)**

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

**Explosives Precursors Regulation (2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

### Drug Precursors Regulation (273/2004)

Contains substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

| Name | CN designation | CAS-No. | CN code | Category, Subcategory | Threshold | Annex |
|---|---|---|---|---|---|---|
| Piperonal | | 120-57-0 | 2932 93 00 | Category 1 | | Annex I |

### 15.1.2. National regulations

### France

| Occupational diseases | |
|---|---|
| Code | Description |
| RG 84 | Conditions caused by liquid organic solvents for professional use: saturated or unsaturated aliphatic or cyclic liquid hydrocarbons and mixtures thereof; liquid halogenated hydrocarbons; nitrated derivatives of aliphatic hydrocarbons; alcohols; glycols, glycol ethers; ketones; aldehydes; aliphatic and cyclic ethers, including tetrahydrofuran; esters; dimethylformamide and dimethylacetamine; acetonitrile and propionitrile; pyridine; dimethylsulfone and dimethylsulfoxide |

### Germany

Water hazard class (WGK) : WGK 2, Significantly hazardous to water (Classification according to AwSV, Annex 1).
List of sensitizing substances (TRGS 907) : Contains sensitizing substances according TRGS 907.
Hazardous Incident Ordinance (12. BImSchV) : Is not subject to the Hazardous Incident Ordinance (12. BImSchV)

### Netherlands

ABM category : A(1) - highly toxic for aquatic organisms, may have longterm hazardous effects in aquatic environment
SZW-lijst van kankerverwekkende stoffen : Terpineol is listed
SZW-lijst van mutagene stoffen : Terpineol is listed
SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : None of the components are listed
SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed

### Denmark

Classification remarks : Emergency management guidelines for the storage of flammable liquids must be followed
Danish National Regulations : Young people below the age of 18 years are not allowed to use the product
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

# SECTION 16: Other information

| Abbreviations and acronyms: | |
|---|---|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration factor |
| BLV | Biological limit value |
| BOD | Biochemical oxygen demand (BOD) |
| COD | Chemical oxygen demand (COD) |
| DMEL | Derived Minimal Effect level |

| Abbreviations and acronyms: | |
|---|---|
| DNEL | Derived-No Effect Level |
| EC-No. | European Community number |
| EC50 | Median effective concentration |
| EN | European Standard |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LC50 | Median lethal concentration |
| LD50 | Median lethal dose |
| LOAEL | Lowest Observed Adverse Effect Level |
| NOAEC | No-Observed Adverse Effect Concentration |
| NOAEL | No-Observed Adverse Effect Level |
| NOEC | No-Observed Effect Concentration |
| OECD | Organisation for Economic Co-operation and Development |
| OEL | Occupational Exposure Limit |
| PBT | Persistent Bioaccumulative Toxic |
| PNEC | Predicted No-Effect Concentration |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS | Safety Data Sheet |
| STP | Sewage treatment plant |
| ThOD | Theoretical oxygen demand (ThOD) |
| TLM | Median Tolerance Limit |
| VOC | Volatile Organic Compounds |
| CAS-No. | Chemical Abstract Service number |
| N.O.S. | Not Otherwise Specified |
| vPvB | Very Persistent and Very Bioaccumulative |
| ED | Endocrine disrupting properties |

| Full text of H- and EUH-statements: | |
|---|---|
| Acute Tox. 3 (Dermal) | Acute toxicity (dermal), Category 3 |
| Acute Tox. 3 (Inhalation) | Acute toxicity (inhal.), Category 3 |
| Acute Tox. 3 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 3 |
| Acute Tox. 3 (Oral) | Acute toxicity (oral), Category 3 |
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal), Category 4 |
| Acute Tox. 4 (Inhalation) | Acute toxicity (inhal.), Category 4 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Aquatic Acute 1 | Hazardous to the aquatic environment – Acute Hazard, Category 1 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment – Chronic Hazard, Category 2 |

| Full text of H- and EUH-statements: | |
|---|---|
| Aquatic Chronic 3 | Hazardous to the aquatic environment – Chronic Hazard, Category 3 |
| Asp. Tox. 1 | Aspiration hazard, Category 1 |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Flam. Liq. 2 | Flammable liquids, Category 2 |
| Flam. Liq. 3 | Flammable liquids, Category 3 |
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H311 | Toxic in contact with skin. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H331 | Toxic if inhaled. |
| H332 | Harmful if inhaled. |
| H361 | Suspected of damaging fertility or the unborn child. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| Repr. 2 | Reproductive toxicity, Category 2 |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| Skin Sens. 1 | Skin sensitisation, Category 1 |
| Skin Sens. 1A | Skin sensitisation, category 1A |
| Skin Sens. 1B | Skin sensitisation, category 1B |
| STOT RE 2 | Specific target organ toxicity – Repeated exposure, Category 2 |

The classification complies with : ATP 12

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.