

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

1.1. Product identifier

Product form : Mixture
 Trade name : Duftöl: Peony
 UFI : 3HTQ-93PC-W000-XS91
 Product code :
 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 : Industrial
 For professional use only
 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

Hansawax GmbH
 Lloyd Industriepark
 Richard-Dunkel-Straße 120
 DE- 28199 Bremen
 T 49-421-57890808
hallo@hansawax.de - www.hansawax.de

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.

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2.2. Label elements

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

Hazard pictograms (CLP)



GHS07

GHS09

Signal word (CLP)

: Warning

Contains

: benzyl benzoate; Hexyl cinnamic aldehyde; Linalyl acetate; Vertenex; Linalool; Geraniol; Nerol; Citronellol Pure; 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone; Benzyl salicylate; Phenylethyl alcohol; Triplal (Vertocitral); Hydroxy; Citrus medica limonum (Lemon) peel oil ; Isocyclocitral; Damascone Beta

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 $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

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

SECTION 3: Composition/information on ingredients

3.1. 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 EC-No.: 204-402-9 EC Index-No.: 607-085-00-9 REACH-no: 01-2119976371-33 | 15.8 – 31.6825 | Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 2, H411 |
| Hexyl cinnamic aldehyde | CAS-No.: 101-86-0 EC-No.: 202-983-3 REACH-no: 01-2119533092-50 | 4 – 8.0001 | Skin Sens. 1, H317 Aquatic Chronic 2, H411 |
| Linalyl acetate | CAS-No.: 115-95-7 EC-No.: 204-116-4 REACH-no: 01-2119454789-19 | 2.7 – 5.3473 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 |

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| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--|---|----------------|--|
| 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide; (HHCB) | CAS-No.: 1222-05-5 EC-No.: 214-946-9 EC Index-No.: 603-212-00-7 REACH-no: 01-2119488227-29 | 2.5 – 5.05 | Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| Vertenex | CAS-No.: 32210-23-4 EC-No.: 250-954-9 REACH-no: 01-2119976286-24 | 2 – 4 | Skin Sens. 1B, H317 |
| Linalool | CAS-No.: 78-70-6 EC-No.: 201-134-4 EC Index-No.: 603-235-00-2 REACH-no: 01-2119474016-42 | 2 – 4 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317 |
| Verdox | CAS-No.: 88-41-5 EC-No.: 201-828-7 REACH-no: 01-2119970713-33 | 1.4 – 2.85 | Aquatic Chronic 2, H411 |
| beta-Ionone | CAS-No.: 14901-07-6 EC-No.: 238-969-9 | 1.4 – 2.85 | Aquatic Chronic 2, H411 |
| Citronellol Pure | CAS-No.: 106-22-9 EC-No.: 203-375-0 REACH-no: 01-2119453995-23 | 1.342 – 2.7425 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317 |
| 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone | CAS-No.: 54464-57-2 EC-No.: 259-174-3 REACH-no: 01-2119489989-04 | 1.4 – 2.7 | Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 1, H410 |
| Benzyl salicylate | CAS-No.: 118-58-1 EC-No.: 204-262-9 EC Index-No.: 607-754-00-5 REACH-no: 01-2119969442-31 | 1.4 – 2.7 | Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 3, H412 |
| Phenylethyl alcohol | CAS-No.: 60-12-8 EC-No.: 200-456-2 REACH-no: 01-2119963921-31 | 1.2 – 2.4 | Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 |
| Geraniol | CAS-No.: 106-24-1 EC-No.: 203-377-1 EC Index-No.: 603-241-00-5 REACH-no: 01-2119552430-49 | 0.7 – 1.995 | Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 |
| Nerol | CAS-No.: 106-25-2 EC-No.: 203-378-7 | 0.42 – 1.425 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 |
| Dimethylbenzyl carbonyl butyrate(DMBCB) | CAS-No.: 10094-34-5 EC-No.: 233-221-8 REACH-no: 01-2120742578-44 | 0.7 – 1.35 | Skin Irrit. 2, H315 Aquatic Chronic 3, H412 |

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| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|-------------------|--|
| Triplal (Vertocitral) | CAS-No.: 68039-49-6 EC-No.: 268-264-1 | 0.4 – 0.8515 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412 |
| Hydroxy | CAS-No.: 107-75-5 EC-No.: 203-518-7 REACH-no: 01-2119973482-31 | 0.41548 – 0.77322 | Eye Irrit. 2, H319 Skin Sens. 1B, H317 |
| Ethyl acetoacetate substance with national workplace exposure limit(s) (RO) | CAS-No.: 141-97-9 EC-No.: 205-516-1 | 0.4 – 0.7 | Not classified |
| Citrus medica limonum (Lemon) peel oil | CAS-No.: 8008-56-8 EC-No.: 284-515-8 | 0.4 – 0.7 | Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Repr. 2, H361 Aquatic Acute 1, H400 Aquatic Chronic 2, H411 |
| Benzyl acetate substance with national workplace exposure limit(s) (BE, DK, ES, IE, LT, LV, PT, RO) | CAS-No.: 140-11-4 EC-No.: 205-399-7 REACH-no: 01-2119638272-42 | 0.3 – 0.55 | Aquatic Chronic 3, H412 |
| Isocyclocitral | CAS-No.: 1335-66-6 EC-No.: 215-638-7 | 0.2 – 0.401 | Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 3, H412 |
| Carbitol substance with national workplace exposure limit(s) (AT, DE, EE, SE, SI, CH) | CAS-No.: 111-90-0 EC-No.: 203-919-7 REACH-no: 01-2119475105-42 | 0.14466 – 0.21699 | Not classified |
| Damascone Beta | CAS-No.: 23726-92-3 EC-No.: 245-843-7 | 0.1 – 0.2 | Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 2, H411 |
| Indole crystals | CAS-No.: 120-72-9 EC-No.: 204-420-7 | 0.1 – 0.15 | Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Eye Dam. 1, H318 |
| citral substance with national workplace exposure limit(s) (BE, ES, IE, PL, PT) | CAS-No.: 5392-40-5 EC-No.: 226-394-6 EC Index-No.: 605-019-00-3 REACH-no: 01-2119462829-23 | 0.014 – 0.0855 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 |
| Alcohol C-10 substance with national workplace exposure limit(s) (BG, DE, LT, LV, RO, CH) | CAS-No.: 112-30-1 EC-No.: 203-956-9 | 0 – 0.0086 | Aquatic Chronic 3, H412 |
| Aldehyde C-6 substance with national workplace exposure limit(s) (FI, PL) | CAS-No.: 66-25-1 EC-No.: 200-624-5 | 0 – 0.0021 | Flam. Liq. 3, H226 |
| Caproic acid substance with national workplace exposure limit(s) (BG, LT, LV) | CAS-No.: 142-62-1 EC-No.: 205-550-7 | 0 – 0.0001 | Eye Dam. 1, H318 Skin Corr. 1C, H314 |

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

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SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|--|
| First-aid measures general | : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). 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. Allow affected person to breathe fresh air. Allow the victim to rest. |
| First-aid measures after skin contact | : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see Get medical advice/attention. on this label). If skin irritation occurs: Get medical advice/attention. Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention. Wash with plenty of water/.... Get medical advice/attention. Wash contaminated clothing before reuse. |
| First-aid measures after eye contact | : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |
| First-aid measures after ingestion | : Do NOT induce vomiting. Obtain emergency medical attention. Rinse mouth. Call a poison center or a doctor if you feel unwell. Call a POISON CENTER/doctor if you feel unwell. |

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

| | |
|-------------------------------------|--|
| Symptoms/effects | : Not expected to present a significant hazard under anticipated conditions of normal use. |
| 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 | : Sand. Water spray. Dry powder. Foam. Carbon dioxide. |
| Unsuitable extinguishing media | : Do not use a heavy water stream. |

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for firefighters

| | |
|--------------------------------|--|
| Firefighting instructions | : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment. |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection. 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. Evacuate unnecessary personnel. 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. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection". |
| Emergency procedures | : Ventilate area. |

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6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
- Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

See Section 8. Exposure controls and personal protection. 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. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapours/spray. No open flames. No smoking.
- 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. Wash hands thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container closed when not in use. Store in a well-ventilated place. Keep cool. Keep in fireproof place.
- Incompatible products : Strong bases. Strong acids.
- Incompatible materials : Sources of ignition. Direct sunlight. Heat sources.
- 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.

Germany

Storage class (LGK, TRGS 510) :

Joint storage table :

LGK 12 - Non-combustible liquids

| | | | | |
|----------|---------|----------|----------|-----------|
| LGK 1 | LGK 2A | LGK 2B | LGK 3 | LGK 4.1A |
| LGK 4.1B | LGK 4.2 | LGK 4.3 | LGK 5.1A | LGK 5.1B |
| LGK 5.1C | LGK 5.2 | LGK 6.1A | LGK 6.1B | LGK 6.1C |
| LGK 6.1D | LGK 6.2 | LGK 7 | LGK 8A | LGK 8B |
| LGK 10 | LGK 11 | LGK 12 | LGK 13 | LGK 10-13 |

Joint storage not permitted for :

Joint storage with restrictions permitted for :

Joint storage permitted for :

LGK 1, LGK 6.2, LGK 7

LGK 4.1A, LGK 4.3, LGK 5.1C

LGK 2A, LGK 2B, LGK 3, LGK 4.1B, LGK 4.2, LGK 5.1A, LGK 5.1B, LGK 5.2, LGK 6.1A, LGK 6.1B, LGK 6.1C, LGK 6.1D, LGK 8A, LGK 8B, LGK 10, LGK 11, LGK 12, LGK 13, LGK 10-13

Switzerland

Storage class (LK) :

LK 10/12 - Liquids

7.3. Specific end use(s)

No additional information available

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

| citral (5392-40-5) | |
|---|---|
| Belgium - Occupational Exposure Limits | |
| OEL TWA | 32 mg/m ³ (vapor and aerosol) |
| | 5 ppm (vapor and aerosol) |
| OEL chemical category | Skin |
| Ireland - Occupational Exposure Limits | |
| OEL TWA | 5 ppm |
| OEL STEL | 15 ppm (calculated) |
| Poland - Occupational Exposure Limits | |
| NDS (OEL TWA) | 27 mg/m ³ |
| NDSch (OEL STEL) | 54 mg/m ³ |
| Portugal - Occupational Exposure Limits | |
| OEL TWA | 5 ppm (inhalable fraction; vapor) |
| OEL chemical category | Sensitizer dermal, A4 - Not Classifiable as a Human Carcinogen, skin - potential for cutaneous exposure |
| Spain - Occupational Exposure Limits | |
| VLA-ED (OEL TWA) | 5 ppm (inhalable fraction and vapor) |
| OEL chemical category | Sensitizer, skin - potential for cutaneous absorption |
| USA - ACGIH - Occupational Exposure Limits | |
| ACGIH OEL TWA | 5 ppm (inhalable fraction and vapor) |
| ACGIH chemical category | Not Classifiable as a Human Carcinogen, Skin - potential significant contribution to overall exposure by the cutaneous route, dermal sensitizer |
| Ethyl acetoacetate (141-97-9) | |
| Romania - Occupational Exposure Limits | |
| OEL TWA | 100 mg/m ³ |
| | 19 ppm |
| OEL STEL | 200 mg/m ³ |
| | 38 ppm |
| Benzyl acetate (140-11-4) | |
| Belgium - Occupational Exposure Limits | |
| OEL TWA | 62 mg/m ³ |
| | 10 ppm |
| Denmark - Occupational Exposure Limits | |
| OEL TWA | 61 mg/m ³ |
| | 10 ppm |
| OEL STEL | 122 mg/m ³ |
| | 20 ppm |

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| Benzyl acetate (140-11-4) | |
|--|---|
| Ireland - Occupational Exposure Limits | |
| OEL TWA | 10 ppm |
| OEL STEL | 30 ppm (calculated) |
| Latvia - Occupational Exposure Limits | |
| OEL TWA | 5 mg/m ³ |
| Lithuania - Occupational Exposure Limits | |
| IPRV (OEL TWA) | 5 mg/m ³ |
| Portugal - Occupational Exposure Limits | |
| OEL TWA | 10 ppm |
| OEL chemical category | A4 - Not Classifiable as a Human Carcinogen |
| Romania - Occupational Exposure Limits | |
| OEL TWA | 50 mg/m ³ |
| | 8 ppm |
| OEL STEL | 80 mg/m ³ |
| | 13 ppm |
| Spain - Occupational Exposure Limits | |
| VLA-ED (OEL TWA) | 62 mg/m ³ |
| | 10 ppm |
| USA - ACGIH - Occupational Exposure Limits | |
| ACGIH OEL TWA | 10 ppm |
| ACGIH chemical category | Not Classifiable as a Human Carcinogen |
| Carbitol (111-90-0) | |
| Austria - Occupational Exposure Limits | |
| MAK (OEL TWA) | 35 mg/m ³ |
| | 6 ppm |
| MAK (OEL STEL) | 140 mg/m ³ |
| | 24 ppm |
| Estonia - Occupational Exposure Limits | |
| OEL TWA | 50.1 mg/m ³ |
| | 10 ppm |
| OEL chemical category | Skin notation |
| Germany - Occupational Exposure Limits (TRGS 900) | |
| AGW (OEL TWA) | 35 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) |
| | 6 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) |
| Slovenia - Occupational Exposure Limits | |
| OEL TWA | 35 mg/m ³ |
| | 6 ppm |

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| Carbitol (111-90-0) | |
|---|---|
| OEL STEL | 70 mg/m ³ |
| | 12 ppm |
| Sweden - Occupational Exposure Limits | |
| NGV (OEL TWA) | 80 mg/m ³ |
| | 15 ppm |
| KGV (OEL STEL) | 170 mg/m ³ |
| | 30 ppm |
| OEL chemical category | Skin notation |
| Switzerland - Occupational Exposure Limits | |
| MAK (OEL TWA) | 50 mg/m ³ (aerosol, inhalable dust, vapour) |
| KZGW (OEL STEL) | 100 mg/m ³ (aerosol, inhalable dust, vapour) |
| Alcohol C-10 (112-30-1) | |
| Bulgaria - Occupational Exposure Limits | |
| OEL TWA | 10 mg/m ³ |
| Germany - Occupational Exposure Limits (TRGS 900) | |
| AGW (OEL TWA) | 66 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) |
| | 10 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) |
| Latvia - Occupational Exposure Limits | |
| OEL TWA | 10 mg/m ³ |
| Lithuania - Occupational Exposure Limits | |
| IPRV (OEL TWA) | 10 mg/m ³ |
| Romania - Occupational Exposure Limits | |
| OEL TWA | 100 mg/m ³ |
| | 15 ppm |
| OEL STEL | 200 mg/m ³ |
| | 30 ppm |
| Switzerland - Occupational Exposure Limits | |
| MAK (OEL TWA) | 66 mg/m ³ (aerosol, vapour) |
| | 10 ppm (aerosol, vapour) |
| KZGW (OEL STEL) | 66 mg/m ³ (aerosol, vapour) |
| | 10 ppm (aerosol, vapour) |
| Aldehyde C-6 (66-25-1) | |
| Finland - Occupational Exposure Limits | |
| HTP (OEL STEL) | 42 mg/m ³ |
| | 10 ppm |
| Poland - Occupational Exposure Limits | |
| NDS (OEL TWA) | 40 mg/m ³ |

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| Aldehyde C-6 (66-25-1) | |
|--|----------------------|
| NDSCh (OEL STEL) | 80 mg/m ³ |
| Caproic acid (142-62-1) | |
| Bulgaria - Occupational Exposure Limits | |
| OEL TWA | 5 mg/m ³ |
| Latvia - Occupational Exposure Limits | |
| OEL TWA | 5 mg/m ³ |
| Lithuania - Occupational Exposure Limits | |
| IPRV (OEL TWA) | 5 mg/m ³ |

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:

Avoid all unnecessary exposure.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Chemical goggles or safety glasses. Safety glasses

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Wear protective gloves.

8.2.2.3. Respiratory protection

Respiratory protection:

Wear appropriate mask

8.2.2.4. Thermal hazards

No additional information available

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8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|--|
| Physical state | : Liquid |
| Colour | : Conforms to standard. |
| Odour | : characteristic. |
| Odour threshold | : Not available |
| Melting point | : Not applicable |
| Freezing point | : Not available |
| Boiling point | : Not available |
| Flammability | : Not applicable, Combustible liquid |
| Lower explosion limit | : Not available |
| Upper explosion limit | : Not available |
| Flash point | : 88 °C |
| Auto-ignition temperature | : Not available |
| Decomposition temperature | : Not available |
| pH | : Not available |
| Viscosity, kinematic | : Not available |
| Solubility | : Not available |
| Partition coefficient n-octanol/water (Log Kow) | : Not available |
| Vapour pressure | : 0.000743661 mm Hg (calculated value) |
| Vapour pressure at 50°C | : Not available |
| Density | : Not available |
| Relative density | : Not available |
| 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

VOC content : 9.36499 % (calculated value)(CARB VOC) (%w/w)

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

Combustible liquid. May form flammable/explosive vapour-air mixture.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks.

10.5. Incompatible materials

Strong acids. Strong bases.

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10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. May release flammable gases.

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

Duftöl: Peony

| | |
|----------------|---------------------------|
| ATE CLP (oral) | 1541.863 mg/kg bodyweight |
|----------------|---------------------------|

benzyl benzoate (120-51-4)

| | |
|---------------|---------------------------------|
| LD50 oral rat | > 2000 mg/kg (Source: ECHA_API) |
|---------------|---------------------------------|

| | |
|-----------|-----------------------|
| LD50 oral | 1160 mg/kg bodyweight |
|-----------|-----------------------|

| | |
|--------------------|------------------------------|
| LD50 dermal rabbit | 4000 mg/kg (Source: NLM_CIP) |
|--------------------|------------------------------|

Hexyl cinnamic aldehyde (101-86-0)

| | |
|---------------|------------------------------|
| LD50 oral rat | 3100 mg/kg (Source: NLM_CIP) |
|---------------|------------------------------|

| | |
|-----------|-----------------------|
| LD50 oral | 3100 mg/kg bodyweight |
|-----------|-----------------------|

| | |
|--------------------|---------------------------------|
| LD50 dermal rabbit | > 3000 mg/kg (Source: EPA_HPVS) |
|--------------------|---------------------------------|

| | |
|-----------------------|-------------|
| LC50 Inhalation - Rat | > 5 mg/l/4h |
|-----------------------|-------------|

Linalyl acetate (115-95-7)

| | |
|---------------|--------------------------------|
| LD50 oral rat | 14550 mg/kg (Source: EPA_HPVS) |
|---------------|--------------------------------|

| | |
|--------------------|-----------------------------|
| LD50 dermal rabbit | > 5000 mg/kg (Source: ECHA) |
|--------------------|-----------------------------|

| | |
|-----------------------|--|
| LC50 Inhalation - Rat | > 18.94 mg/l (Exposure time: 8 h Source: ECHA) |
|-----------------------|--|

1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide; (HHCBS) (1222-05-5)

| | |
|---------------|---------------------------------|
| LD50 oral rat | > 3250 mg/kg (Source: CHEMVIEW) |
|---------------|---------------------------------|

| | |
|--------------------|---------------------------------|
| LD50 dermal rabbit | > 3250 mg/kg (Source: CHEMVIEW) |
|--------------------|---------------------------------|

| | |
|-----------------------|----------------|
| LC50 Inhalation - Rat | > 5.04 mg/l/4h |
|-----------------------|----------------|

Vertenex (32210-23-4)

| | |
|---------------|--------------------------|
| LD50 oral rat | 5 g/kg (Source: NLM_CIP) |
|---------------|--------------------------|

| | |
|-----------|-----------------------|
| LD50 oral | 3370 mg/kg bodyweight |
|-----------|-----------------------|

| | |
|--------------------|---------------------------------|
| LD50 dermal rabbit | > 5000 mg/kg (Source: CHEMVIEW) |
|--------------------|---------------------------------|

Linalool (78-70-6)

| | |
|-----------|------------|
| LD50 oral | 2790 mg/kg |
|-----------|------------|

Verdox (88-41-5)

| | |
|---------------|------------------------------|
| LD50 oral rat | 4600 mg/kg (Source: NLM_CIP) |
|---------------|------------------------------|

| | |
|-----------|------------|
| LD50 oral | 4600 mg/kg |
|-----------|------------|

beta-Ionone (14901-07-6)

| | |
|---------------|-------------------------------|
| LD50 oral rat | 4590 mg/kg (Source: NLM_HSDS) |
|---------------|-------------------------------|

| | |
|-----------|-----------------------|
| LD50 oral | 3940 mg/kg bodyweight |
|-----------|-----------------------|

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| Geraniol (106-24-1) | |
|---|---------------------------------|
| LD50 oral rat | 3600 mg/kg (Source: NLM_CIP) |
| LD50 oral | 3600 mg/kg bodyweight |
| LD50 dermal rabbit | > 5 g/kg (Source: NLM_CIP) |
| Nerol (106-25-2) | |
| LD50 oral rat | 4500 mg/kg (Source: NLM_CIP) |
| LD50 oral | 4500 mg/kg bodyweight |
| LD50 dermal rabbit | > 5 g/kg (Source: NLM_CIP) |
| Citronellol Pure (106-22-9) | |
| LD50 oral rat | 3450 mg/kg (Source: NLM_CIP) |
| LD50 oral | 3450 mg/kg bodyweight |
| LD50 dermal rabbit | 2650 mg/kg (Source: EPA_HPVS) |
| LD50 dermal | 2650 mg/kg bodyweight |
| citral (5392-40-5) | |
| LD50 oral rat | 4960 mg/kg (Source: NLM_CIP) |
| LD50 dermal rabbit | 2250 mg/kg (Source: NLM_CIP) |
| Benzyl salicylate (118-58-1) | |
| LD50 oral rat | 2227 mg/kg (Source: NLM_CIP) |
| LD50 oral | 2200 mg/kg bodyweight |
| LD50 dermal rabbit | > 5000 mg/kg (Source: CHEMVIEW) |
| Phenylethyl alcohol (60-12-8) | |
| LD50 oral rat | 1609 mg/kg (Source: EPA_HPVS) |
| LD50 oral | 1610 mg/kg |
| LD50 dermal rabbit | 2535 mg/kg (Source: EPA_HPVS) |
| LC50 Inhalation - Rat | > 4.63 mg/l/4h |
| Dimethylbenzyl carbonyl butyrate(DMBCB) (10094-34-5) | |
| LD50 oral rat | > 5 g/kg (Source: NLM_CIP) |
| Triplal (Vertocitral) (68039-49-6) | |
| LD50 oral | 2330 mg/kg |
| Hydroxy (107-75-5) | |
| LD50 oral rat | > 6400 mg/kg (Source: ECHA) |
| LD50 dermal rabbit | > 2000 mg/kg (Source: ECHA_API) |
| Ethyl acetoacetate (141-97-9) | |
| LD50 oral rat | 3980 mg/kg (Source: NLM_CIP) |
| LD50 dermal rabbit | > 5000 mg/kg (Source: NLM_CIP) |
| Citrus medica limonum (Lemon) peel oil (8008-56-8) | |
| LD50 oral rat | 2840 mg/kg (Source: NLM_CIP) |

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| Benzyl acetate (140-11-4) | |
|------------------------------------|---|
| LD50 oral rat | 2490 mg/kg (Source: JAPAN_GHS) |
| LD50 oral | 2490 mg/kg bodyweight |
| LD50 dermal rabbit | > 5000 mg/kg (Source: JAPAN_GHS) |
| Isocyclocitral (1335-66-6) | |
| LD50 oral rat | 4500 mg/kg (Source: NLM_CIP) |
| LD50 oral | 3220 mg/kg bodyweight |
| Carbitol (111-90-0) | |
| LD50 oral rat | 10502 mg/kg (Source: OECD_SIDS) |
| LD50 dermal rabbit | 9143 mg/kg (Source: OECD_SIDS) |
| LC50 Inhalation - Rat | > 5240 mg/m ³ (Exposure time: 4 h Source: NLM_CIP) |
| Damascone Beta (23726-92-3) | |
| LD50 oral | 2920 mg/kg bodyweight |
| Indole crystals (120-72-9) | |
| LD50 oral rat | 1 g/kg (Source: NLM_CIP) |
| LD50 oral | 1000 mg/kg bodyweight |
| LD50 dermal rabbit | 790 mg/kg (Source: NZ_CCID) |
| LD50 dermal | 790 mg/kg bodyweight |
| Alcohol C-10 (112-30-1) | |
| LD50 oral rat | 4720 mg/kg (Source: NZ_CCID) |
| LD50 dermal rat | > 5000 mg/kg (Source: ECHA_API) |
| LC50 Inhalation - Rat | > 71 mg/l (Exposure time: 1 h Source: ECHA_API) |
| Aldehyde C-6 (66-25-1) | |
| LD50 oral rat | 4890 mg/kg (Source: NLM_CIP) |
| LD50 dermal rabbit | > 8100 mg/kg (Source: ECHA_API) |
| Caproic acid (142-62-1) | |
| LD50 oral rat | 3 g/kg (Source: NLM_HSDB) |
| LD50 oral | 4000 mg/kg bodyweight |
| LD50 dermal rabbit | 630 mg/kg (Source: NLM_HSDB) |
| 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 |
| Benzyl acetate (140-11-4) | |
| IARC group | 3 - Not classifiable |
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : Not classified |
| STOT-repeated exposure | : Not classified |
| Aspiration hazard | : Not classified |

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benzyl benzoate (120-51-4)

| | |
|----------------------|--------------------------|
| Viscosity, kinematic | 7.456 mm ² /s |
|----------------------|--------------------------|

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

No additional information available

11.2.2. Other information

Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met, Harmful if swallowed.

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 |
|----------------|------------|

Linalyl acetate (115-95-7)

| | |
|-----------------|--|
| LC50 - Fish [1] | 11 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [flow-through] Source: ECHA) |
|-----------------|--|

1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide; (HHCB) (1222-05-5)

| | |
|-----------------|------------------------------|
| LC50 - Fish [1] | 0.452 mg/l Wolf, 1996d-27682 |
|-----------------|------------------------------|

| | |
|------------------------------------|---|
| LC50 - Other aquatic organisms [1] | > 0.14 mg/l REACH DOSSIER Pimephales promelas |
|------------------------------------|---|

| | |
|----------------------|------------------------|
| EC50 - Crustacea [2] | 260 µg/l REACH Dossier |
|----------------------|------------------------|

| | |
|------------------------------------|--------------------------|
| EC50 - Other aquatic organisms [1] | 0.131 mg/l REACH Dossier |
|------------------------------------|--------------------------|

Vertenex (32210-23-4)

| | |
|-----------------|--|
| LC50 - Fish [1] | 8.6 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static] Source: ECHA) |
|-----------------|--|

Linalool (78-70-6)

| | |
|----------------------|--|
| EC50 96h - Algae [1] | 88.3 mg/l (Species: Desmodesmus subspicatus) |
|----------------------|--|

Geraniol (106-24-1)

| | |
|-----------------|--|
| LC50 - Fish [1] | 22 mg/l (Exposure time: 96 h - Species: Danio rerio [static] Source: ECHA) |
|-----------------|--|

Nerol (106-25-2)

| | |
|-----------------|---|
| LC50 - Fish [1] | 20.3 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static] Source: ECHA) |
|-----------------|---|

citral (5392-40-5)

| | |
|----------------------|---|
| EC50 - Crustacea [1] | 7 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
|----------------------|---|

| | |
|----------------------|--|
| EC50 72h - Algae [1] | 16 mg/l (Species: Desmodesmus subspicatus) |
|----------------------|--|

| | |
|----------------------|--|
| EC50 96h - Algae [1] | 19 mg/l (Species: Desmodesmus subspicatus) |
|----------------------|--|

Benzyl salicylate (118-58-1)

| | |
|-----------------|---|
| LC50 - Fish [1] | 1.03 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static] Source: ECHA) |
|-----------------|---|

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| 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) |
| Ethyl acetoacetate (141-97-9) | |
| LC50 - Fish [1] | 298 mg/l (Exposure time: 96 h - Species: Pimephales promelas Source: IUCLID) |
| LC50 - Fish [2] | 290 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: IUCLID) |
| EC50 - Crustacea [1] | 646 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| EC50 72h - Algae [1] | > 500 mg/l (Species: Desmodesmus subspicatus) |
| Carbitol (111-90-0) | |
| LC50 - Fish [1] | 10000 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: EPA) |
| LC50 - Fish [2] | 19100 – 23900 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through] Source: EPA) |
| EC50 - Crustacea [1] | 3940 – 4670 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| Alcohol C-10 (112-30-1) | |
| LC50 - Fish [1] | 2.2 – 2.5 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA) |
| LC50 - Fish [2] | 4.12 – 6.2 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: EPA) |
| EC50 - Crustacea [1] | 3 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| Aldehyde C-6 (66-25-1) | |
| LC50 - Fish [1] | 12 – 16.5 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA) |
| Caproic acid (142-62-1) | |
| LC50 - Fish [1] | 306 – 334 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA) |
| LC50 - Fish [2] | 88 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: EPA) |
| 12.2. Persistence and degradability | |
| Duftöl: Peony | |
| Persistence and degradability | Not established. |
| benzyl benzoate (120-51-4) | |
| Persistence and degradability | May cause long-term adverse effects in the environment. |
| Hexyl cinnamic aldehyde (101-86-0) | |
| Persistence and degradability | Rapidly degradable |
| Linalyl acetate (115-95-7) | |
| Persistence and degradability | Rapidly degradable |
| 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide; (HHCB) (1222-05-5) | |
| Persistence and degradability | Rapidly degradable |
| Vertenex (32210-23-4) | |
| Persistence and degradability | Rapidly degradable |

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| | |
|--|--------------------|
| Linalool (78-70-6) | |
| Persistence and degradability | Rapidly degradable |
| Verdax (88-41-5) | |
| Persistence and degradability | Rapidly degradable |
| beta-Ionone (14901-07-6) | |
| Persistence and degradability | Rapidly degradable |
| Geraniol (106-24-1) | |
| Persistence and degradability | Rapidly degradable |
| Nerol (106-25-2) | |
| Persistence and degradability | Rapidly degradable |
| Citronellol Pure (106-22-9) | |
| Persistence and degradability | Rapidly degradable |
| citral (5392-40-5) | |
| Persistence and degradability | Rapidly degradable |
| 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone (54464-57-2) | |
| Persistence and degradability | Rapidly degradable |
| Benzyl salicylate (118-58-1) | |
| Persistence and degradability | Rapidly degradable |
| Phenylethyl alcohol (60-12-8) | |
| Persistence and degradability | Rapidly degradable |
| Dimethylbenzyl carbonyl butyrate(DMBCB) (10094-34-5) | |
| Persistence and degradability | Rapidly degradable |
| Triplal (Vertocitral) (68039-49-6) | |
| Persistence and degradability | Rapidly degradable |
| Hydroxy (107-75-5) | |
| Persistence and degradability | Rapidly degradable |
| Ethyl acetoacetate (141-97-9) | |
| Persistence and degradability | Rapidly degradable |
| Citrus medica limonum (Lemon) peel oil (8008-56-8) | |
| Persistence and degradability | Rapidly degradable |
| Benzyl acetate (140-11-4) | |
| Persistence and degradability | Rapidly degradable |
| Isocyclocitral (1335-66-6) | |
| Persistence and degradability | Rapidly degradable |
| Carbitol (111-90-0) | |
| Persistence and degradability | Rapidly degradable |

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| Damascone Beta (23726-92-3) | |
|---|--|
| Persistence and degradability | Rapidly degradable |
| Indole crystals (120-72-9) | |
| Persistence and degradability | Rapidly degradable |
| Alcohol C-10 (112-30-1) | |
| Persistence and degradability | Rapidly degradable |
| Aldehyde C-6 (66-25-1) | |
| Persistence and degradability | Rapidly degradable |
| Caproic acid (142-62-1) | |
| Persistence and degradability | Rapidly degradable |
| 12.3. Bioaccumulative potential | |
| Duftöl: Peony | |
| Bioaccumulative potential | Not established. |
| benzyl benzoate (120-51-4) | |
| Partition coefficient n-octanol/water (Log Pow) | 3.97 (at 25 °C) |
| Bioaccumulative potential | Not established. |
| Linalyl acetate (115-95-7) | |
| Partition coefficient n-octanol/water (Log Pow) | 3.9 (at 25 °C) |
| 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide; (HHCB) (1222-05-5) | |
| BCF - Fish [1] | (1618 dimensionless (whole body w.w.)) |
| Partition coefficient n-octanol/water (Log Pow) | 5.3 (at 25 °C (at pH 7)) |
| Vertenex (32210-23-4) | |
| Partition coefficient n-octanol/water (Log Pow) | 4.8 (at 25 °C) |
| beta-Ionone (14901-07-6) | |
| Partition coefficient n-octanol/water (Log Pow) | 1.903 (at 27 °C (at pH 5.7)) |
| Geraniol (106-24-1) | |
| Partition coefficient n-octanol/water (Log Pow) | 2.6 (at 25 °C) |
| Nerol (106-25-2) | |
| Partition coefficient n-octanol/water (Log Pow) | 2.76 (at 30 °C (at pH 6.5)) |
| Citronellol Pure (106-22-9) | |
| Partition coefficient n-octanol/water (Log Pow) | 3.41 (at 25 °C) |
| citral (5392-40-5) | |
| Partition coefficient n-octanol/water (Log Pow) | 2.76 (at 25 °C) |
| Benzyl salicylate (118-58-1) | |
| Partition coefficient n-octanol/water (Log Pow) | 4 |

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| Phenylethyl alcohol (60-12-8) | |
|--|---------------------------|
| Partition coefficient n-octanol/water (Log Pow) | 1.36 (at 20 °C (at pH 7)) |
| Dimethylbenzyl carbonyl butyrate(DMBCB) (10094-34-5) | |
| Partition coefficient n-octanol/water (Log Pow) | 4.7 (at 25 °C) |
| Hydroxy (107-75-5) | |
| Partition coefficient n-octanol/water (Log Pow) | 1.68 (at 25 °C) |
| Ethyl acetoacetate (141-97-9) | |
| Partition coefficient n-octanol/water (Log Pow) | 0.8 (at 20 °C) |
| Benzyl acetate (140-11-4) | |
| Partition coefficient n-octanol/water (Log Pow) | 1.96 (at 25 °C (at pH 7)) |
| Carbitol (111-90-0) | |
| Partition coefficient n-octanol/water (Log Pow) | -0.8 |
| Alcohol C-10 (112-30-1) | |
| Partition coefficient n-octanol/water (Log Pow) | 4.5 (at 25 °C (at pH 6)) |
| Aldehyde C-6 (66-25-1) | |
| Partition coefficient n-octanol/water (Log Pow) | 2.3 (at 25 °C (at pH 5)) |
| Caproic acid (142-62-1) | |
| Partition coefficient n-octanol/water (Log Pow) | 1.88 |

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

Additional information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

| | |
|--|---|
| Waste treatment methods | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| Product/Packaging disposal recommendations | : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container in accordance with local/national laws and regulations. |
| Ecological information | : Avoid release to the environment. |
| 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. HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment |



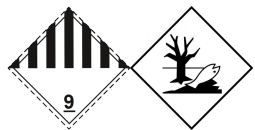
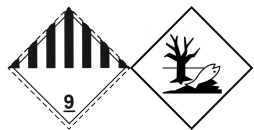

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SECTION 14: Transport information

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

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| | | |
|-------------------------------|---|---|
| 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

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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) | Citrus medica limonum (Lemon) peel oil ; Aldehyde C-6 | 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) | Duftöl: Peony ; benzyl benzoate ; Hexyl cinnamic aldehyde ; Linalyl acetate ; Vertenex ; Linalool ; Geraniol ; Nerol ; Citronellol Pure ; citral ; 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone ; Benzyl salicylate ; Phenylethyl alcohol ; Dimethylbenzyl carbonyl butyrate(DMBCB) ; Triplal (Vertocitral) ; Hydroxy ; Citrus medica limonum (Lemon) peel oil ; Isocyclocitral ; Damascone Beta ; Indole crystals ; Caproic acid | 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) | Duftöl: Peony ; benzyl benzoate ; Hexyl cinnamic aldehyde ; 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide; (HHCB) ; Verdox ; beta-lonone ; 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone ; Benzyl salicylate ; Dimethylbenzyl carbonyl butyrate(DMBCB) ; Triplal (Vertocitral) ; Citrus medica limonum (Lemon) peel oil ; Benzyl acetate ; Isocyclocitral ; Damascone Beta ; Alcohol C-10 | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1 |

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| EU restriction list (REACH Annex XVII) | | |
|--|---|--|
| Reference code | Applicable on | Entry title or description |
| 40. | Citrus medica limonum (Lemon) peel oil ; Aldehyde C-6 | 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)

Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

VOC Directive (2004/42)

VOC content : 9.36499 % (calculated value)(CARB VOC) (%w/w)

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 no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

Germany

Water hazard class (WGK) : WGK 2, Significantly hazardous to water (Classification according to AwSV, Annex 1).
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 : Triplal (Vertocitral),Lemon oil are listed
SZW-lijst van mutagene stoffen : Triplal (Vertocitral),Lemon oil are listed
SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : None of the components are listed
SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed

Denmark

Class for fire hazard : Class III-1
Store unit : 50 liter
Classification remarks : Flammable according to the Danish Ministry of Justice; 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

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SECTION 16: Other information

Other information : None.

| Full text of H- and EUH-statements: | |
|-------------------------------------|---|
| Acute Tox. 3 (Dermal) | Acute toxicity (dermal), Category 3 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Aquatic Acute 1 | Hazardous to the aquatic environment – Acute Hazard, Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment – Chronic Hazard, Category 1 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment – Chronic Hazard, Category 2 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment – Chronic Hazard, Category 3 |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Flam. Liq. 3 | Flammable liquids, Category 3 |
| H226 | Flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H311 | Toxic in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H361 | Suspected of damaging fertility or the unborn child. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| Repr. 2 | Reproductive toxicity, Category 2 |
| Skin Corr. 1C | Skin corrosion/irritation, Category 1, Sub-Category 1C |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| Skin Sens. 1 | Skin sensitisation, Category 1 |
| Skin Sens. 1B | Skin sensitisation, category 1B |

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.