

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

1.1. Product identifier

| | |
|-----------------|-----------------------------|
| Product form | : Mixture |
| Product name | : Flowerbomb Type #EU34953F |
| UFI | : FVS3-536X-A005-U63X |
| Product code | : EU34953F |
| 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 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

FRENCH COLOR & FRAGRANCE International GmbH
Mittlerer Weg 35
DE- 79424 Auggen
Germany
T 49-7631-931-8900
SDS@frenchcolor.com - www.frenchcolor.com

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 |
| Serious eye damage/eye irritation, Category 2 | H319 |
| Skin sensitisation, Category 1 | H317 |
| 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 serious eye irritation. Toxic to aquatic life with long lasting effects. May cause an allergic skin reaction. Causes skin irritation.

2.2. Label elements

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

Hazard pictograms (CLP)



GHS07

GHS09

Signal word (CLP)

: Warning

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| | |
|--------------------------------|--|
| Hazard statements (CLP) | : H302 - Harmful if swallowed. H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H411 - 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. |

2.3. Other hazards

Contains no PBT/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 is 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 | 22.65 – 45.3 | Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 2, H411 |
| Benzyl salicylate | CAS-No.: 118-58-1 EC-No.: 204-262-9 EC Index-No.: 607-754-00-5 REACH-no: 01-2119969442-31 | 2.575 – 5.15 | Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 3, H412 |
| Linalool | CAS-No.: 78-70-6 EC-No.: 201-134-4 EC Index-No.: 603-235-00-2 REACH-no: 01-2119474016-42 | 2.275 – 4.55 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317 |
| beta-Ionone | CAS-No.: 14901-07-6 EC-No.: 238-969-9 | 1.825 – 3.65 | Aquatic Chronic 2, H411 |
| 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 | 1.565 – 3.13 | Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| Ethylene brassylate | CAS-No.: 105-95-3 EC-No.: 203-347-8 REACH-no: 01-2119976314-33 | 1.425 – 2.85 | Aquatic Chronic 2, H411 |

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| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|--------------|--|
| Cedramber | CAS-No.: 19870-74-7 EC-No.: 243-384-7 | 1.375 – 2.75 | Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Skin Sens. 1B, H317 |
| Iso E Super | CAS-No.: 54464-57-2 EC-No.: 259-174-3 REACH-no: 01-2119489989-04 | 0.85 – 1.7 | Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 1, H410 |
| Linalyl acetate | CAS-No.: 115-95-7 EC-No.: 204-116-4 REACH-no: 01-2119454789-19 | 0.75 – 1.5 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 |
| Ethyl linalool | CAS-No.: 10339-55-6 EC-No.: 233-732-6 REACH-no: 01-2119969272-32 | 0.725 – 1.45 | Eye Irrit. 2, H319 Skin Sens. 1B, H317 |
| Vanillin | CAS-No.: 121-33-5 EC-No.: 204-465-2 REACH-no: 01-2119516040-60 | 0.65 – 1.3 | Eye Irrit. 2, H319 |
| Ethyl vanillin | CAS-No.: 121-32-4 EC-No.: 204-464-7 REACH-no: 01-211958961-24 | 0.5 – 1 | Eye Irrit. 2, H319 |
| (R)-p-mentha-1,8-diene; d-limonene substance with national workplace exposure limit(s) (DE, ES, FI, SI, NO, CH) | CAS-No.: 5989-27-5 EC-No.: 205-341-0 EC Index-No.: 601-096-00-2 REACH-no: 01-2119493353-35 | 0.125 – 0.25 | Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 3, H412 |
| Helional | CAS-No.: 1205-17-0 EC-No.: 214-881-6 REACH-no: 01-2120740119-58 | 0.125 – 0.25 | Skin Sens. 1B, H317 Repr. 2, H361 Aquatic Chronic 2, H411 |
| COUMARIN | CAS-No.: 91-64-5 EC-No.: 202-086-7 REACH-no: 01-2119943756-26 | 0.1 – 0.2 | Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Skin Sens. 1, H317 Aquatic Chronic 2, H411 |
| Patchouli oil | CAS-No.: 8014-09-3 EC Index-No.: 616-944-7 | 0.1 – 0.2 | Skin Sens. 1B, H317 Asp. Tox. 1, H304 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 | 0.075 – 0.15 | Aquatic Chronic 3, H412 |

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 | : Call a poison center or a doctor if you feel unwell. Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). |
| 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 | : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention. 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. |
| 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. Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists. |
| First-aid measures after ingestion | : Rinse mouth. Call a poison center or a doctor if you feel unwell. Call a POISON CENTER/doctor if you feel unwell. Do NOT induce vomiting. Obtain emergency medical attention. |

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 | : May cause an allergic skin reaction. Irritation. |
| Symptoms/effects after eye contact | : Eye irritation. |
| Symptoms/effects after ingestion | : Swallowing a small quantity of this material will result in serious health hazard. |

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. Sand. |
| 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 attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. Do not enter fire area without proper protective equipment, including respiratory protection. |

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. Evacuate unnecessary personnel. |
|----------------------|--|

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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". Equip cleanup crew with proper protection.
- Emergency procedures : Ventilate area.

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

For further information refer to section 13. See Section 8. Exposure controls and personal protection.

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. 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.
- Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Wash hands thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store in a well-ventilated place. Keep cool. 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.
- Incompatible products : Strong bases. Strong acids.
- Incompatible materials : Sources of ignition. Direct sunlight.
- 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

| (R)-p-mentha-1,8-diene; d-limonene (5989-27-5) | |
|---|-----------------------|
| Finland - Occupational Exposure Limits | |
| HTP (OEL TWA) [1] | 140 mg/m ³ |
| HTP (OEL TWA) [2] | 25 ppm |
| HTP (OEL STEL) | 280 mg/m ³ |

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| (R)-p-mentha-1,8-diene; d-limonene (5989-27-5) | |
|--|---|
| HTP (OEL STEL) [ppm] | 50 ppm |
| Germany - Occupational Exposure Limits (TRGS 900) | |
| AGW (OEL TWA) [1] | 28 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) |
| AGW (OEL TWA) [2] | 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/m ³ |
| OEL TWA [ppm] | 5 ppm |
| OEL STEL | 112 mg/m ³ |
| OEL STEL [ppm] | 20 ppm |
| OEL chemical category | Potential for cutaneous absorption |
| Spain - Occupational Exposure Limits | |
| VLA-ED (OEL TWA) [1] | 168 mg/m ³ |
| VLA-ED (OEL TWA) [2] | 30 ppm |
| OEL chemical category | Sensitizer, skin - potential for cutaneous absorption |
| Norway - Occupational Exposure Limits | |
| Grenseverdi (OEL TWA) [1] | 140 mg/m ³ |
| Grenseverdi (OEL TWA) [2] | 25 ppm |
| Korttidsverdi (OEL STEL) | 175 mg/m ³ (value calculated) |
| Korttidsverdi (OEL STEL) [ppm] | 37.5 ppm (value calculated) |
| OEL chemical category | Allergenic substance |
| Switzerland - Occupational Exposure Limits | |
| MAK (OEL TWA) [1] | 40 mg/m ³ |
| MAK (OEL TWA) [2] | 7 ppm |
| KZGW (OEL STEL) | 80 mg/m ³ |
| KZGW (OEL STEL) [ppm] | 14 ppm |
| OEL chemical category | Sensitizer |
| Benzyl acetate (140-11-4) | |
| Belgium - Occupational Exposure Limits | |
| OEL TWA | 62 mg/m ³ |
| OEL TWA [ppm] | 10 ppm |
| Denmark - Occupational Exposure Limits | |
| OEL TWA [1] | 61 mg/m ³ |
| OEL TWA [2] | 10 ppm |
| OEL STEL | 122 mg/m ³ |
| OEL STEL [ppm] | 20 ppm |

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| Benzyl acetate (140-11-4) | |
|---|---|
| Ireland - Occupational Exposure Limits | |
| OEL TWA [2] | 10 ppm |
| OEL STEL [ppm] | 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 [ppm] | 10 ppm |
| OEL chemical category | A4 - Not Classifiable as a Human Carcinogen |
| Romania - Occupational Exposure Limits | |
| OEL TWA | 50 mg/m ³ |
| OEL TWA [ppm] | 8 ppm |
| OEL STEL | 80 mg/m ³ |
| OEL STEL [ppm] | 13 ppm |
| Spain - Occupational Exposure Limits | |
| VLA-ED (OEL TWA) [1] | 62 mg/m ³ |
| VLA-ED (OEL TWA) [2] | 10 ppm |
| USA - ACGIH - Occupational Exposure Limits | |
| ACGIH OEL TWA [ppm] | 10 ppm |
| ACGIH chemical category | Not Classifiable as a Human Carcinogen |

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):



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8.2.2.1. Eye and face protection

Eye protection:

Safety glasses. Chemical goggles or 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

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 | : 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 |
| Explosive limits | : Not available |
| Lower explosion limit | : Not available |
| Upper explosion limit | : Not available |
| Flash point | : > 93.33 °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 | : 1 |
| 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

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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

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

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

| Flowerbomb Type #EU34953F | |
|--|---------------------------------|
| ATE CLP (oral) | 1079.914 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) |
| 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) |
| Linalool (78-70-6) | |
| LD50 oral | 2790 mg/kg bodyweight |
| beta-Ionone (14901-07-6) | |
| LD50 oral rat | 4590 mg/kg (Source: NLM_HSDB) |
| LD50 oral | 3940 mg/kg bodyweight |
| 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide; (HHCB) (1222-05-5) | |
| LD50 oral rat | > 3250 mg/kg (Source: CHEMVIEW) |
| LD50 dermal rabbit | > 3250 mg/kg (Source: CHEMVIEW) |

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| Ethylene brassylate (105-95-3) | |
|---|--|
| LD50 oral rat | > 5000 mg/kg (Source: ECHA) |
| LD50 dermal rabbit | > 5000 mg/kg (Source: ECHA) |
| Linalyl acetate (115-95-7) | |
| LD50 oral rat | 14550 mg/kg (Source: EPA_HPVS) |
| LD50 dermal rabbit | > 5000 mg/kg (Source: EPA_HPVS) |
| Ethyl linalool (10339-55-6) | |
| LD50 oral | 5000 mg/kg bodyweight |
| LD50 dermal rabbit | > 5000 mg/kg (Source: ECHA_API) |
| Vanillin (121-33-5) | |
| LD50 dermal rabbit | > 5010 mg/kg (Source: OECD_SIDS) |
| LD50 dermal | 2600 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) |
| (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) |
| Helional (1205-17-0) | |
| LD50 dermal rabbit | > 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) |
| Patchouli oil (8014-09-3) | |
| LD50 oral rat | > 5 g/kg (Source: NLM_CIP) |
| 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) |
| Skin corrosion/irritation | : Not classified |
| 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 |
| (R)-p-mentha-1,8-diene; d-limonene (5989-27-5) | |
| IARC group | 3 - Not classifiable |

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| COUMARIN (91-64-5) | |
|---|--|
| IARC group | 3 - Not classifiable |
| 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 |
| 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 | : Harmful if swallowed, Based on available data, the classification criteria are not met |
| SECTION 12: Ecological information | |
| 12.1. Toxicity | |
| Ecology - general | : Toxic to aquatic life with long lasting effects. |
| Hazardous to the aquatic environment, short-term (acute) | : Not classified |
| 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 |
| Benzyl salicylate (118-58-1) | |
| LC50 - Fish [1] | 1.03 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static] Source: ECHA) |
| Linalool (78-70-6) | |
| EC50 96h - Algae [1] | 88.3 mg/l (Species: Desmodium subspicatus) |
| 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 |
| Linalyl acetate (115-95-7) | |
| LC50 - Fish [1] | 11 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [flow-through] Source: ECHA) |
| Ethyl linalool (10339-55-6) | |
| LC50 - Fish [1] | 24 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static] Source: ECHA) |

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| Vanillin (121-33-5) | |
|---|--|
| LC50 - Fish [1] | 53 – 61.3 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) |
| NOEC (acute) | 10000 mg/kg (Exposure time: 42 Days - Species: Eisenia foetida [soil dry weight]) |
| 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) |
| (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) |
| 12.2. Persistence and degradability | |
| Flowerbomb Type #EU34953F | |
| Persistence and degradability | Not established. |
| benzyl benzoate (120-51-4) | |
| Persistence and degradability | May cause long-term adverse effects in the environment. |
| 12.3. Bioaccumulative potential | |
| Flowerbomb Type #EU34953F | |
| 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. |
| Benzyl salicylate (118-58-1) | |
| Partition coefficient n-octanol/water (Log Pow) | 4 |
| beta-Ionone (14901-07-6) | |
| Partition coefficient n-octanol/water (Log Pow) | 1.903 (at 27 °C (at pH 5.7)) |
| 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)) |
| Ethylene brassylate (105-95-3) | |
| Partition coefficient n-octanol/water (Log Pow) | 4.3 (at 25 °C (at pH 6.4-7)) |
| Linalyl acetate (115-95-7) | |
| Partition coefficient n-octanol/water (Log Pow) | 3.9 (at 25 °C) |
| Ethyl linalool (10339-55-6) | |
| Partition coefficient n-octanol/water (Log Pow) | 3.3 (at 20 °C) |
| Vanillin (121-33-5) | |
| Partition coefficient n-octanol/water (Log Pow) | 1.23 (at 22 °C) |

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| Ethyl vanillin (121-32-4) | |
|---|-----------------------------|
| Partition coefficient n-octanol/water (Log Pow) | 1.61 (at 25 °C) |
| (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)) |
| Helional (1205-17-0) | |
| Partition coefficient n-octanol/water (Log Pow) | 2.4 (at 25 °C) |
| Benzyl acetate (140-11-4) | |
| Partition coefficient n-octanol/water (Log Pow) | 1.96 (at 25 °C (at pH 7)) |

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 of contents/container in accordance with local/national laws and regulations. Dispose in a safe manner in accordance with local/national regulations. |
| Ecology - waste materials | : Avoid release to the environment. |
| HP Code | : HP3 - "Flammable:" <ul style="list-style-type: none">– flammable liquid waste: liquid waste having a flash point below 60 °C or waste gas oil, diesel and light heating oils having a flash point > 55 °C and ≤ 75 °C;– flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air;– flammable solid waste: solid waste which is readily combustible or may cause or contribute to fire through friction;– flammable gaseous waste: gaseous waste which is flammable in air at 20 °C and a standard pressure of 101.3 kPa;– water reactive waste: waste which, in contact with water, emits flammable gases in dangerous quantities;– other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste. |
| | HP6 - "Acute Toxicity:" waste which can cause acute toxic effects following oral or dermal administration, or inhalation exposure. |
| | 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

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| 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. (HEXAMETHYLINDANOPYRAN) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (HEXAMETHYLINDANOPYRAN) | Environmentally hazardous substance, liquid, n.o.s. (HEXAMETHYLINDANOPYRAN) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
| Transport document description | | | | |
| UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (HEXAMETHYLINDANOPYRAN), 9, III, (E) | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (HEXAMETHYLINDANOPYRAN), 9, III, MARINE POLLUTANT | UN 3082 Environmentally hazardous substance, liquid, n.o.s. (HEXAMETHYLINDANOPYRAN), 9, III | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 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, 601, 375 |
| Limited quantities (ADR) | : 5I |
| Excepted quantities (ADR) | : E1 |
| Packing instructions (ADR) | : P001, IBC03, LP01, R001 |
| Mixed packing provisions (ADR) | : MP19 |
| Portable tank and bulk container instructions (ADR) | : 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) : E

Transport by sea

Special provisions (IMDG) : 274, 335, 969
Limited quantities (IMDG) : 5 L
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : P001, LP01
Special packing provisions (IMDG) : PP1
IBC packing instructions (IMDG) : IBC03
Tank instructions (IMDG) : T4
Tank special provisions (IMDG) : TP2, 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
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) | (R)-p-mentha-1,8-diene; d-limonene | 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) | Flowerbomb Type #EU34953F ; Helional ; Linalool ; Ethyl linalool ; (R)-p-mentha-1,8-diene; d-limonene ; Benzyl salicylate ; Cedramber ; Iso E Super ; Linalyl acetate ; benzyl benzoate | 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) | Flowerbomb Type #EU34953F ; Helional ; (R)-p-mentha-1,8-diene; d-limonene ; Ethylene brassylate ; Benzyl salicylate ; Cedramber ; Iso E Super ; beta-Ionone ; benzyl benzoate ; 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide; (HHCB) | 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. | (R)-p-mentha-1,8-diene; d-limonene | 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)

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)

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15.1.2. National regulations

Germany

- Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG).
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).
- Water hazard class (WGK) : WGK 2, Significantly hazardous to water (Classification according to AwSV, Annex 1).
- Hazardous Incident Ordinance (12. BImSchV) : Is not subject of 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 : None of the components are listed
- SZW-lijst van mutagene stoffen : None of the components 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

- 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 |
| 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 |

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| Abbreviations and acronyms: | |
|-----------------------------|--|
| 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 |

Other information : None.

| 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 (Oral) | Acute toxicity (oral), 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 |
| Asp. Tox. 1 | Aspiration hazard, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Flam. Liq. 3 | Flammable liquids, Category 3 |
| H226 | Flammable liquid and vapour. |
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H311 | Toxic in contact with skin. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H331 | Toxic if inhaled. |

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| Full text of H- and EUH-statements: | |
|-------------------------------------|---|
| 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 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.