

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

1.1. Product identifier

| | |
|-----------------|----------------------------|
| Product form | : Mixture |
| Trade name | : RHUBARB & ROSE #EU45738F |
| UFI | : 1TN2-U49A-M00F-YXTR |
| Product code | : EU45738F |
| 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 | : Professional use, Industrial 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

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]

| | |
|---|------|
| Skin corrosion/irritation, Category 2 | H315 |
| 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

Causes skin irritation. Causes serious eye irritation. Toxic to aquatic life with long lasting effects. May cause an allergic skin reaction.

2.2. Label elements

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

Hazard pictograms (CLP)



GHS07

GHS09

Signal word (CLP)

: Warning

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| | |
|--------------------------------|--|
| Contains | : Aldehyde C-16; Orange oil ; Hexyl salicylate; Cyclamal; Geraniol; Nerol; Citronellol Pure; Helional; Triplal (Vertocitral); Floralozone; Bourgeonal; delta-Damascone; Melonal |
| Hazard statements (CLP) | : H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H411 - Toxic to aquatic life with long lasting effects. |
| Precautionary statements (CLP) | : P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P264 - Wash hands, forearms and face thoroughly after handling. 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. P302+P352 - IF ON SKIN: Wash with plenty of water. |
| Extra phrases | : For professional users only. |

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 | 10 – 19.9925 | Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 2, H411 |
| Aldehyde C-16 | CAS-No.: 77-83-8 EC-No.: 201-061-8 REACH-no: 01-2119967770-28 | 6.6 – 13.2731 | Skin Sens. 1B, H317 Aquatic Chronic 2, H411 |
| Orange oil | CAS-No.: 8008-57-9 EC-No.: 232-433-8 REACH-no: 01-2119493353-35 | 3 – 5.9065 | Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 2, H411 |
| Oxyphelylon (Raspberry ketone) crystals | CAS-No.: 5471-51-2 EC-No.: 226-806-4 | 2.7 – 5.498 | Acute Tox. 4 (Oral), H302 |
| Hexyl salicylate | CAS-No.: 6259-76-3 EC-No.: 228-408-6 | 2 – 3.9819 | Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| Dimethylbenzyl carbinyl acetate(DMBCA) | CAS-No.: 151-05-3 EC-No.: 205-781-3 | 1.7 – 3.3846 | Aquatic Chronic 3, H412 |

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| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|--|-----------------|---|
| Cyclamal | CAS-No.: 103-95-7 EC-No.: 203-161-7 REACH-no: 01-2119970582-32 | 1.7 – 3.3183 | Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 2, H411 |
| Benzyl alcohol substance with national workplace exposure limit(s) (BG, CZ, DE, FI, LT, LV, PL, SI, CH) | CAS-No.: 100-51-6 EC-No.: 202-859-9 EC Index-No.: 603-057-00-5 REACH-no: 01-2119492630-38 | 1.3 – 2.6546 | Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 |
| Cedarwood oil, Virginia | CAS-No.: 8000-27-9 EC-No.: 285-370-3 | 1.3 – 2.6546 | Asp. Tox. 1, H304 Aquatic Chronic 1, H410 |
| Helional | CAS-No.: 1205-17-0 EC-No.: 214-881-6 REACH-no: 01-2120740119-58 | 1 – 1.991 | Skin Sens. 1B, H317 Repr. 2, H361 Aquatic Chronic 2, H411 |
| Diethyl malonate | CAS-No.: 105-53-3 EC-No.: 203-305-9 REACH-no: 01-2119886972-18 | 1 – 1.991 | 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 | 0.6 – 1.62596 | Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 |
| Aldehyde C-14 | CAS-No.: 104-67-6 EC-No.: 203-225-4 REACH-no: 01-2119959333-34 | 0.8 – 1.5928 | Aquatic Chronic 3, H412 |
| Citronellol Pure | CAS-No.: 106-22-9 EC-No.: 203-375-0 REACH-no: 01-2119453995-23 | 0.636 – 1.41564 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317 |
| Nerol | CAS-No.: 106-25-2 EC-No.: 203-378-7 | 0.36 – 1.1614 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 |
| 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 | 0.5 – 1.0618 | Aquatic Chronic 3, H412 |
| Triplal (Vertocitral) | CAS-No.: 68039-49-6 EC-No.: 268-264-1 | 0.4 – 0.8627 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412 |
| Undecavertol | CAS-No.: 81782-77-6 EC-No.: 279-815-0 | 0.4 – 0.7964 | Aquatic Acute 1, H400 Aquatic Chronic 2, H411 |
| Floralozone | CAS-No.: 67634-15-5 EC-No.: 266-819-2 REACH-no: 01-2120758796-34 | 0.3 – 0.5973 | Aquatic Acute 1, H400 Aquatic Chronic 2, H411 Skin Irrit. 2, H315 Skin Sens. 1B, H317 |

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| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--|---|------------------|--|
| Ethyl acetoacetate substance with national workplace exposure limit(s) (RO) | CAS-No.: 141-97-9 EC-No.: 205-516-1 | 0.3 – 0.5973 | Not classified |
| Benzaldehyde substance with national workplace exposure limit(s) (BG, FI, HU, LT, LV, PL) | CAS-No.: 100-52-7 EC-No.: 202-860-4 EC Index-No.: 605-012-00-5 REACH-no: 01-2119455540-44 | 0.3 – 0.5309 | Acute Tox. 4 (Oral), H302 |
| bourgeonal | CAS-No.: 18127-01-0 EC-No.: 242-016-2 | 0.2 – 0.4998 | Skin Irrit. 2, H315 Skin Sens. 1B, H317 Repr. 2, H361 STOT RE 2, H373 Aquatic Chronic 3, H412 |
| delta-Damascone | CAS-No.: 57378-68-4 EC-No.: 260-709-8 | 0.2 – 0.3318 | Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 1, H410 |
| Melonal | CAS-No.: 106-72-9 EC-No.: 203-427-2 | 0.1 – 0.2655 | Skin Sens. 1B, H317 |
| Camphor substance with national workplace exposure limit(s) (AT, BE, BG, DK, ES, FI, FR, GB, GR, HR, IE, LT, PL, PT, RO, SK, NO, CH) | CAS-No.: 76-22-2 EC-No.: 200-945-0 | 0.1 – 0.2655 | Flam. Sol. 2, H228 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 2, H371 Aquatic Chronic 2, H411 |
| 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 | 0.012 – 0.069684 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 |

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

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|--|
| First-aid measures general | : 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 the victim to rest. |
| First-aid measures after skin contact | : 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. |
| First-aid measures after eye contact | : 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 | : Obtain emergency medical attention. Call a poison center or a 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. |

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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.

6.2. Environmental precautions

Avoid release to the environment. 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. Store away from other materials.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

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. 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.
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.

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7.2. Conditions for safe storage, including any incompatibilities

| | |
|----------------------------|---|
| Storage conditions | : Keep container closed when not in use. Store in a well-ventilated place. Keep cool. |
| 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

| Benzyl alcohol (100-51-6) | |
|--|---|
| Bulgaria - Occupational Exposure Limits | |
| OEL TWA | 5 mg/m ³ |
| Czech Republic - Occupational Exposure Limits | |
| PEL (OEL TWA) | 40 mg/m ³ |
| Finland - Occupational Exposure Limits | |
| HTP (OEL TWA) [1] | 45 mg/m ³ |
| HTP (OEL TWA) [2] | 10 ppm |
| Germany - Occupational Exposure Limits (TRGS 900) | |
| AGW (OEL TWA) [1] | 22 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 |
| Latvia - Occupational Exposure Limits | |
| OEL TWA | 5 mg/m ³ |
| Lithuania - Occupational Exposure Limits | |
| IPRV (OEL TWA) | 5 mg/m ³ |
| OEL chemical category | Skin notation |
| Poland - Occupational Exposure Limits | |
| NDS (OEL TWA) | 240 mg/m ³ |
| Slovenia - Occupational Exposure Limits | |
| OEL TWA | 22 mg/m ³ |
| OEL TWA [ppm] | 5 ppm |
| OEL STEL | 44 mg/m ³ |
| OEL STEL [ppm] | 10 ppm |
| OEL chemical category | Potential for cutaneous absorption |

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| Benzyl alcohol (100-51-6) | |
|---|---|
| Switzerland - Occupational Exposure Limits | |
| MAK (OEL TWA) [1] | 22 mg/m ³ (aerosol, vapour) |
| MAK (OEL TWA) [2] | 5 ppm (aerosol, vapour) |
| OEL chemical category | Skin notation |
| Citral (5392-40-5) | |
| Belgium - Occupational Exposure Limits | |
| OEL TWA | 32 mg/m ³ (vapor and aerosol) |
| OEL TWA [ppm] | 5 ppm (vapor and aerosol) |
| OEL chemical category | Skin |
| Ireland - Occupational Exposure Limits | |
| OEL TWA [2] | 5 ppm |
| OEL STEL [ppm] | 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 [ppm] | 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) [2] | 5 ppm (inhalable fraction and vapor) |
| OEL chemical category | Sensitizer, skin - potential for cutaneous absorption |
| USA - ACGIH - Occupational Exposure Limits | |
| ACGIH OEL TWA [ppm] | 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 |
| 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 |
| Ireland - Occupational Exposure Limits | |
| OEL TWA [2] | 10 ppm |
| OEL STEL [ppm] | 30 ppm (calculated) |

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| Benzyl acetate (140-11-4) | |
|---|---|
| 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 |
| Ethyl acetoacetate (141-97-9) | |
| Romania - Occupational Exposure Limits | |
| OEL TWA | 100 mg/m ³ |
| OEL TWA [ppm] | 19 ppm |
| OEL STEL | 200 mg/m ³ |
| OEL STEL [ppm] | 38 ppm |
| Benzaldehyde (100-52-7) | |
| Bulgaria - Occupational Exposure Limits | |
| OEL TWA | 5 mg/m ³ |
| Finland - Occupational Exposure Limits | |
| HTP (OEL TWA) [1] | 4.4 mg/m ³ |
| HTP (OEL TWA) [2] | 1 ppm |
| HTP (OEL C) | 17.4 mg/m ³ |
| HTP (OEL C) [ppm]] | 4 ppm |
| Hungary - Occupational Exposure Limits | |
| AK (OEL TWA) | 5 mg/m ³ |
| CK (OEL STEL) | 10 mg/m ³ |
| Latvia - Occupational Exposure Limits | |
| OEL TWA | 5 mg/m ³ |

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| Benzaldehyde (100-52-7) | |
|---|---|
| Lithuania - Occupational Exposure Limits | |
| IPRV (OEL TWA) | 5 mg/m ³ |
| Poland - Occupational Exposure Limits | |
| NDS (OEL TWA) | 10 mg/m ³ |
| NDSch (OEL STEL) | 40 mg/m ³ |
| Camphor (76-22-2) | |
| Austria - Occupational Exposure Limits | |
| MAK (OEL TWA) | 13 mg/m ³ |
| MAK (OEL TWA) [ppm] | 2 ppm |
| Belgium - Occupational Exposure Limits | |
| OEL TWA | 12 mg/m ³ |
| OEL TWA [ppm] | 2 ppm |
| OEL STEL | 19 mg/m ³ |
| OEL STEL [ppm] | 3 ppm |
| Bulgaria - Occupational Exposure Limits | |
| OEL TWA | 12 mg/m ³ |
| OEL STEL | 18 mg/m ³ |
| Croatia - Occupational Exposure Limits | |
| GVI (OEL TWA) [1] | 13 mg/m ³ |
| GVI (OEL TWA) [2] | 2 ppm |
| KGVI (OEL STEL) | 19 mg/m ³ |
| KGVI (OEL STEL) [ppm] | 3 ppm |
| Denmark - Occupational Exposure Limits | |
| OEL TWA [1] | 12 mg/m ³ |
| OEL TWA [2] | 2 ppm |
| OEL STEL | 24 mg/m ³ |
| OEL STEL [ppm] | 4 ppm |
| Finland - Occupational Exposure Limits | |
| HTP (OEL TWA) [1] | 1.9 mg/m ³ |
| HTP (OEL TWA) [2] | 0.3 ppm |
| HTP (OEL STEL) | 5.7 mg/m ³ |
| HTP (OEL STEL) [ppm] | 0.9 ppm |
| France - Occupational Exposure Limits | |
| VME (OEL TWA) | 12 mg/m ³ |
| VME (OEL TWA) [ppm] | 2 ppm |
| Greece - Occupational Exposure Limits | |
| OEL TWA | 12 mg/m ³ (inhalable fraction) |
| OEL STEL | 18 mg/m ³ |

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| Camphor (76-22-2) | |
|--|---|
| Ireland - Occupational Exposure Limits | |
| OEL TWA [1] | 12 mg/m ³ |
| OEL TWA [2] | 2 ppm |
| OEL STEL | 18 mg/m ³ |
| OEL STEL [ppm] | 3 ppm |
| Lithuania - Occupational Exposure Limits | |
| IPRV (OEL TWA) | 3 mg/m ³ |
| Poland - Occupational Exposure Limits | |
| NDS (OEL TWA) | 12 mg/m ³ |
| NDSch (OEL STEL) | 18 mg/m ³ |
| Portugal - Occupational Exposure Limits | |
| OEL TWA [ppm] | 2 ppm |
| OEL STEL [ppm] | 3 ppm |
| OEL chemical category | A4 - Not Classifiable as a Human Carcinogen |
| Romania - Occupational Exposure Limits | |
| OEL TWA | 1 mg/m ³ |
| OEL TWA [ppm] | 6 ppm |
| OEL STEL | 3 mg/m ³ |
| OEL STEL [ppm] | 18 ppm |
| Slovakia - Occupational Exposure Limits | |
| NPHV (OEL TWA) [1] | 13 mg/m ³ |
| NPHV (OEL TWA) [2] | 2 ppm |
| NPHV (OEL C) | 26 mg/m ³ |
| Spain - Occupational Exposure Limits | |
| VLA-ED (OEL TWA) [1] | 13 mg/m ³ |
| VLA-ED (OEL TWA) [2] | 2 ppm |
| VLA-EC (OEL STEL) | 19 mg/m ³ |
| VLA-EC (OEL STEL) [ppm] | 3 ppm |
| United Kingdom - Occupational Exposure Limits | |
| WEL TWA (OEL TWA) [1] | 13 mg/m ³ |
| WEL TWA (OEL TWA) [2] | 2 ppm |
| WEL STEL (OEL STEL) | 19 mg/m ³ |
| WEL STEL (OEL STEL) [ppm] | 3 ppm |
| Norway - Occupational Exposure Limits | |
| Grenseverdi (OEL TWA) [1] | 12 mg/m ³ |
| Grenseverdi (OEL TWA) [2] | 2 ppm |
| Korttidsverdi (OEL STEL) | 18 mg/m ³ (value calculated) |
| Korttidsverdi (OEL STEL) [ppm] | 4 ppm (value calculated) |

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| Camphor (76-22-2) | |
|---|--|
| Switzerland - Occupational Exposure Limits | |
| MAK (OEL TWA) [1] | 13 mg/m ³ (aerosol, vapour) |
| MAK (OEL TWA) [2] | 2 ppm (aerosol, vapour) |
| USA - ACGIH - Occupational Exposure Limits | |
| ACGIH OEL TWA [ppm] | 2 ppm (synthetic) |
| ACGIH OEL STEL [ppm] | 3 ppm (synthetic) |
| ACGIH chemical category | Not Classifiable as a Human Carcinogen synthetic |

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

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

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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. |
| 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 | : 74 °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 | : Not available |
| Vapour pressure at 50°C | : Not available |
| Density | : Not available |
| Relative density | : ≈ 1.08 |
| Relative vapour density at 20°C | : Not available |
| Particle characteristics | : Not applicable |

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Carbon dioxide.

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SECTION 11: Toxicological information

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

| | |
|-----------------------------|------------------|
| Acute toxicity (oral) | : Not classified |
| Acute toxicity (dermal) | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

| Benzyl benzoate (120-51-4) | |
|-----------------------------------|-----------------------|
| LD50 oral rat | 500 mg/kg |
| LD50 oral | 1160 mg/kg bodyweight |
| LD50 dermal rabbit | 4000 mg/kg |

| Aldehyde C-16 (77-83-8) | |
|--------------------------------|--------------|
| LD50 oral rat | 5470 mg/kg |
| LD50 dermal rat | > 2000 mg/kg |

| Orange oil (8008-57-9) | |
|-------------------------------|--------------|
| LD50 oral rat | 4400 mg/kg |
| LD50 dermal rabbit | > 5000 mg/kg |

| Oxyphelylon (Raspberry ketone) crystals (5471-51-2) | |
|--|--------------|
| LD50 oral rat | 1320 mg/kg |
| LD50 dermal rat | > 2000 mg/kg |

| Hexyl salicylate (6259-76-3) | |
|-------------------------------------|--------------|
| LD50 oral rat | > 5 g/kg |
| LD50 dermal rabbit | > 5000 mg/kg |

| Dimethylbenzyl carbiny acetate(DMBCA) (151-05-3) | |
|---|-----------------------|
| LD50 oral rat | 3300 mg/kg |
| LD50 oral | 3300 mg/kg bodyweight |

| Cyclamal (103-95-7) | |
|----------------------------|-----------------------|
| LD50 oral rat | 3810 mg/kg |
| LD50 oral | 3810 mg/kg bodyweight |
| LD50 dermal rat | > 5000 mg/kg |

| Benzyl alcohol (100-51-6) | |
|----------------------------------|-----------------------|
| LD50 oral rat | 1230 mg/kg |
| LD50 oral | 1620 mg/kg bodyweight |
| LD50 dermal | 2500 mg/kg bodyweight |

| Cedarwood oil, Virginia (8000-27-9) | |
|--|----------|
| LD50 oral rat | > 5 g/kg |

| Geraniol (106-24-1) | |
|----------------------------|-----------------------|
| LD50 oral rat | 3600 mg/kg |
| LD50 oral | 3600 mg/kg bodyweight |
| LD50 dermal rabbit | > 5 g/kg |

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| Nerol (106-25-2) | |
|---|-----------------------|
| LD50 oral rat | 4500 mg/kg |
| LD50 oral | 4500 mg/kg bodyweight |
| LD50 dermal rabbit | > 5 g/kg |
| Citronellol Pure (106-22-9) | |
| LD50 oral rat | 3450 mg/kg |
| LD50 oral | 3450 mg/kg bodyweight |
| LD50 dermal rabbit | 2650 mg/kg |
| LD50 dermal | 2650 mg/kg bodyweight |
| Citral (5392-40-5) | |
| LD50 oral rat | 4960 mg/kg |
| LD50 dermal rabbit | 2250 mg/kg |
| Helional (1205-17-0) | |
| LD50 dermal rabbit | > 2000 mg/kg |
| Diethyl malonate (105-53-3) | |
| LD50 oral rat | 14900 µl/kg |
| LD50 dermal rabbit | > 16960 mg/kg |
| Aldehyde C-14 (104-67-6) | |
| LD50 oral rat | 18500 mg/kg |
| LD50 dermal rat | > 2000 mg/kg |
| Benzyl acetate (140-11-4) | |
| LD50 oral rat | 2490 mg/kg |
| LD50 oral | 2490 mg/kg bodyweight |
| LD50 dermal rabbit | > 5000 mg/kg |
| Triplal (Vertocitral) (68039-49-6) | |
| LD50 oral | 3900 mg/kg bodyweight |
| Ethyl acetoacetate (141-97-9) | |
| LD50 oral rat | 3980 mg/kg |
| LD50 dermal rabbit | > 5000 mg/kg |
| Benzaldehyde (100-52-7) | |
| LD50 oral rat | 1292 mg/kg |
| LD50 dermal rabbit | > 1250 mg/kg |
| bourgeonal (18127-01-0) | |
| LD50 oral rat | 2700 mg/kg |
| LD50 oral | 2500 mg/kg bodyweight |
| LD50 dermal rabbit | > 5 g/kg |
| delta-Damascone (57378-68-4) | |
| LD50 oral | 1400 mg/kg bodyweight |

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| Melonal (106-72-9) | |
|-----------------------------------|--|
| LD50 oral rat | > 5 g/kg |
| Camphor (76-22-2) | |
| LD50 oral | 1500 mg/kg bodyweight |
| LD50 dermal rat | > 2000 mg/kg |
| LC50 Inhalation - Rat (Dust/Mist) | 1.5 mg/l/4h |
| Skin corrosion/irritation | : Causes skin irritation. |
| Serious eye damage/irritation | : Causes serious eye irritation. |
| Respiratory or skin sensitisation | : May cause an allergic skin reaction. |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Benzyl acetate (140-11-4) | |
| IARC group | 3 - Not classifiable |
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : Not classified |
| Camphor (76-22-2) | |
| STOT-single exposure | May cause damage to organs. |
| STOT-repeated exposure | : Not classified |
| bourgeonal (18127-01-0) | |
| STOT-repeated exposure | May cause damage to organs through prolonged or repeated exposure. |
| Aspiration hazard | : Not classified |
| Benzyl benzoate (120-51-4) | |
| Viscosity, kinematic | 7.456 mm ² /s |
| Orange oil (8008-57-9) | |
| Hydrocarbon | Yes |

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

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]) |
| NOEC (chronic) | 0.168 mg/l |

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| Aldehyde C-16 (77-83-8) | |
|--|--|
| LC50 - Fish [1] | 4.2 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static]) |
| Benzyl alcohol (100-51-6) | |
| LC50 - Fish [1] | 460 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) |
| LC50 - Fish [2] | 10 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static]) |
| EC50 - Crustacea [1] | 23 mg/l (Exposure time: 48 h - Species: water flea) |
| Geraniol (106-24-1) | |
| LC50 - Fish [1] | 22 mg/l (Exposure time: 96 h - Species: Danio rerio [static]) |
| Nerol (106-25-2) | |
| LC50 - Fish [1] | 20.3 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static]) |
| 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) |
| Diethyl malonate (105-53-3) | |
| LC50 - Fish [1] | 10.3 – 13.4 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| EC50 - Crustacea [1] | 202.3 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| EC50 72h - Algae [1] | 508.2 mg/l (Species: Desmodesmus subspicatus) |
| Aldehyde C-14 (104-67-6) | |
| LC50 - Fish [1] | 569 mg/l 96 h |
| EC50 - Crustacea [1] | 5.85 mg/l 48 h |
| EC50 - Other aquatic organisms [1] | 5.94 mg/l 72 h |
| Ethyl acetoacetate (141-97-9) | |
| LC50 - Fish [1] | 298 mg/l (Exposure time: 96 h - Species: Pimephales promelas) |
| LC50 - Fish [2] | 290 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss) |
| EC50 - Crustacea [1] | 646 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| EC50 72h - Algae [1] | > 500 mg/l (Species: Desmodesmus subspicatus) |
| Benzaldehyde (100-52-7) | |
| LC50 - Fish [1] | 10.6 – 11.8 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through]) |
| LC50 - Fish [2] | 12.69 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static]) |
| 12.2. Persistence and degradability | |
| RHUBARB & ROSE #EU45738F | |
| Persistence and degradability | Not established. |
| Benzyl benzoate (120-51-4) | |
| Persistence and degradability | May cause long-term adverse effects in the environment. |

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12.3. Bioaccumulative potential

| RHUBARB & ROSE #EU45738F | |
|---|-------------------------------|
| 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. |
| Aldehyde C-16 (77-83-8) | |
| Partition coefficient n-octanol/water (Log Pow) | 2.4 (at 25 °C (cis isomer)) |
| Oxyphelylon (Raspberry ketone) crystals (5471-51-2) | |
| Partition coefficient n-octanol/water (Log Pow) | 1.33 (at 20 °C) |
| Hexyl salicylate (6259-76-3) | |
| Partition coefficient n-octanol/water (Log Pow) | 5.5 (at 30 °C (at pH 7)) |
| Dimethylbenzyl carbonyl acetate(DMBCA) (151-05-3) | |
| Partition coefficient n-octanol/water (Log Pow) | 3.64 (at 25 °C (at pH >6-<7)) |
| Cyclamal (103-95-7) | |
| Partition coefficient n-octanol/water (Log Pow) | 3.4 (at 35 °C) |
| Benzyl alcohol (100-51-6) | |
| Partition coefficient n-octanol/water (Log Pow) | 1.05 |
| 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) |
| Helional (1205-17-0) | |
| Partition coefficient n-octanol/water (Log Pow) | 2.4 (at 25 °C) |
| Diethyl malonate (105-53-3) | |
| Partition coefficient n-octanol/water (Log Pow) | 0.96 |
| Aldehyde C-14 (104-67-6) | |
| Partition coefficient n-octanol/water (Log Pow) | 3.6 (at 25 °C) |
| Benzyl acetate (140-11-4) | |
| Partition coefficient n-octanol/water (Log Pow) | 1.96 (at 25 °C (at pH 7)) |
| Undecavertol (81782-77-6) | |
| Partition coefficient n-octanol/water (Log Pow) | 3.9 (at 30 °C (at pH 7)) |

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| Ethyl acetoacetate (141-97-9) | |
|---|----------------------------------|
| Partition coefficient n-octanol/water (Log Pow) | 0.8 (at 20 °C) |
| Benzaldehyde (100-52-7) | |
| BCF - Fish [1] | (no significant bioaccumulation) |
| Partition coefficient n-octanol/water (Log Pow) | 1.4 (at 25 °C) |
| bourgeonal (18127-01-0) | |
| Partition coefficient n-octanol/water (Log Pow) | 3.2 (at 20 °C (at pH 7) |
| Melonal (106-72-9) | |
| Partition coefficient n-octanol/water (Log Pow) | 3.4 (at 35 °C (at pH 7) |
| Camphor (76-22-2) | |
| Partition coefficient n-octanol/water (Log Pow) | 2.414 (at 25 °C) |

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. |
| Ecology - waste materials | : Avoid release to the environment. |
| HP Code | : HP3 - "Flammable:" – 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. HP4 - "Irritant – skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye. HP13 - "Sensitising:" waste which contains one or more substances known to cause sensitising effects to the skin or the respiratory organs. HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment |

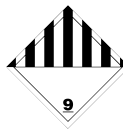
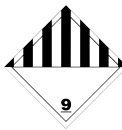



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SECTION 14: Transport information

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. (Hexyl salicylate) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Hexyl salicylate) | Environmentally hazardous substance, liquid, n.o.s. (Hexyl salicylate) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Hexyl salicylate) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Hexyl salicylate) |
| Transport document description | | | | |
| UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Hexyl salicylate), 9, III, (-) | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Hexyl salicylate), 9, III, MARINE POLLUTANT | UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Hexyl salicylate), 9, III | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Hexyl salicylate), 9, III | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Hexyl salicylate), 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) | Orange oil | 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) | RHUBARB & ROSE #EU45738F ; Benzyl benzoate ; Aldehyde C-16 ; Orange oil ; Hexyl salicylate ; Cyclamal ; Benzyl alcohol ; Cedarwood oil, Virginia ; Geraniol ; Nerol ; Citronellol Pure ; Citral ; Helional ; Diethyl malonate ; Triplal (Vertocitral) ; Floralozone ; Benzaldehyde ; bourgeonal ; delta-Damascone ; Melonal | 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) | RHUBARB & ROSE #EU45738F ; Benzyl benzoate ; Aldehyde C-16 ; Orange oil ; Hexyl salicylate ; Dimethylbenzyl carbonyl acetate (DMBCA) ; Cyclamal ; Cedarwood oil, Virginia ; Helional ; Aldehyde C-14 ; Benzyl acetate ; Triplal (Vertocitral) ; Undecavertol ; Floralozone ; bourgeonal ; delta-Damascone | 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. | Orange oil ; Camphor | 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)

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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)

15.1.2. National regulations

France

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

Germany

- 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 3, Highly 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 : Orange oil ,Cedarwood oil, Virginia, Triplal (Vertocitral), Floralozone are listed
- SZW-lijst van mutagene stoffen : Orange oil ,Cedarwood oil, Virginia, Triplal (Vertocitral), Floralozone 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

Switzerland

- Storage class (LK) : LK 10/12 - Liquids

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 |

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Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Abbreviations and acronyms: | |
|-----------------------------|--|
| 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 |
| 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. 4 (Inhalation) | Acute toxicity (inhal.), Category 4 |
| Acute Tox. 4 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 4 |

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Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Full text of H- and EUH-statements: | |
|-------------------------------------|--|
| 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 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 |
| Flam. Sol. 2 | Flammable solids, Category 2 |
| H226 | Flammable liquid and vapour. |
| H228 | Flammable solid. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H361 | Suspected of damaging fertility or the unborn child. |
| H371 | May cause damage to organs. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| 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 |
| STOT RE 2 | Specific target organ toxicity – Repeated exposure, Category 2 |
| STOT SE 2 | Specific target organ toxicity – Single exposure, Category 2 |

The classification complies with : ATP 12

Safety Data Sheet (SDS), EU

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