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

1.1. Product identifier

|  |  |  |
| --- | --- | --- |
| Product form | : | Mixture |
| Product name | : | RUBY CHOCOLATE #EU12196F 5% in DPG |
| Product code | : | EU12196F\_5% |
| Type of product | : | Perfumes, fragrances |

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

1.2.1. Relevant identified uses

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

No additional information available

1.4. Emergency telephone number

No additional information available

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

|  |  |  |  |
| --- | --- | --- | --- |
| Hazardous to the aquatic environment – Chronic Hazard, Category 3 | H412 |  |  |

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

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

|  |  |  |
| --- | --- | --- |
| Signal word (CLP) | : | - |
| Hazard statements (CLP) | : | H412 - Harmful to aquatic life with long lasting effects. |
| Precautionary statements (CLP) | : | P273 - Avoid release to the environment. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. |
| EUH-statements | : | EUH208 - Contains benzyl alcohol. May produce an allergic reaction. |
| Extra phrases | : | For professional users only. |

2.3. Other hazards

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

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

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
| --- | --- | --- | --- |
| 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 | 0.375 – 0.75 | Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| 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 | 0.09 – 0.1825 | Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 |
| 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 | 0.00505 – 0.010375 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 |
| turpentine, oil  substance with national workplace exposure limit(s) (AT, BE, BG, CZ, DK, EE, ES, FI, FR, GB, GR, HR, IE, LT, PL, PT, RO, SE, SK, NO, CH, TR) | CAS-No.: 8006-64-2  EC-No.: 232-350-7  EC Index-No.: 650-002-00-6 | 0.005 – 0.01 | Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation:vapour), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 |
| isobutyl acetate  substance with national workplace exposure limit(s) (AT, BE, BG, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IT, LT, LU, LV, MT, NL, PL, PT, RO, SE, SI, SK, NO, CH, TR) | CAS-No.: 110-19-0  EC-No.: 203-745-1  EC Index-No.: 607-026-00-7 | 0.005 – 0.01 | Flam. Liq. 2, H225 STOT SE 3, H336 |
| acetophenone  substance with national workplace exposure limit(s) (BE, BG, DK, ES, FI, HU, IE, LT, LV, PL, PT, RO) | CAS-No.: 98-86-2  EC-No.: 202-708-7  EC Index-No.: 606-042-00-1  REACH-no: 01-2119533169-37 | 0.005 – 0.005 | Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 |

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 | : | Allow affected person to breathe fresh air. Allow the victim to rest. |
| First-aid measures after skin contact | : | Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. |
| First-aid measures after eye contact | : | Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists. |
| First-aid measures after ingestion | : | Rinse mouth. 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. |

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

|  |  |  |
| --- | --- | --- |
| Suitable extinguishing media | : | Foam. Dry powder. Carbon dioxide. Water spray. Sand. |
| Unsuitable extinguishing media | : | Do not use a heavy water stream. |

5.2. Special hazards arising from the substance or mixture

No additional information available

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. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

|  |  |  |
| --- | --- | --- |
| Emergency procedures | : | Evacuate unnecessary personnel. |

6.1.2. For emergency responders

|  |  |  |
| --- | --- | --- |
| Protective equipment | : | Equip cleanup crew with proper protection. |
| Emergency procedures | : | Ventilate area. |

6.2. Environmental precautions

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

|  |  |  |
| --- | --- | --- |
| Methods for cleaning up | : | Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. |

6.4. Reference to other sections

See Section 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

|  |  |  |
| --- | --- | --- |
| Precautions for safe handling | : | 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. |

7.2. Conditions for safe storage, including any incompatibilities

|  |  |  |
| --- | --- | --- |
| Storage conditions | : | Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use. |
| Incompatible products | : | Strong bases. Strong acids. |
| Incompatible materials | : | Sources of ignition. Direct sunlight. |
| Germany | | |
| Storage class (LGK, TRGS 510) | : | LGK 12 - Non-combustible liquids |
| Joint storage table | : | Joint storage table |
| Joint storage not permitted for | : | LGK 1, LGK 6.2, LGK 7 |
| Joint storage with restrictions permitted for | : | LGK 4.1A, LGK 4.3, LGK 5.1C |
| Joint storage permitted for | : | LGK 2A, LGK 2B, LGK 3, LGK 4.1B, LGK 4.2, LGK 5.1A, LGK 5.1B, LGK 5.2, LGK 6.1A, LGK 6.1B, LGK 6.1C, LGK 6.1D, LGK 8A, LGK 8B, LGK 10, LGK 11, LGK 12, LGK 13, LGK 10-13 |
| Switzerland | | |
| Storage class (LK) | : | LK 10/12 - Liquids |

7.3. Specific end use(s)

No additional information available

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/m³ |
| Czech Republic - Occupational Exposure Limits | |
| PEL (OEL TWA) | 40 mg/m³ |
| Finland - Occupational Exposure Limits | |
| HTP (OEL TWA) | 45 mg/m³ |
| 10 ppm |
| Germany - Occupational Exposure Limits (TRGS 900) | |
| AGW (OEL TWA) | 22 mg/m³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) |
| 5 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) |
| Chemical category | Skin notation |
| Latvia - Occupational Exposure Limits | |
| OEL TWA | 5 mg/m³ |
| Lithuania - Occupational Exposure Limits | |
| IPRV (OEL TWA) | 5 mg/m³ |
| OEL chemical category | Skin notation |
| Poland - Occupational Exposure Limits | |
| NDS (OEL TWA) | 240 mg/m³ |
| Slovenia - Occupational Exposure Limits | |
| OEL TWA | 22 mg/m³ |
| 5 ppm |
| OEL STEL | 44 mg/m³ |
| 10 ppm |
| OEL chemical category | Potential for cutaneous absorption |
| Switzerland - Occupational Exposure Limits | |
| MAK (OEL TWA) | 22 mg/m³ (aerosol, vapour) |
| 5 ppm (aerosol, vapour) |
| OEL chemical category | Skin notation |

| citral (5392-40-5) | |
| --- | --- |
| Belgium - Occupational Exposure Limits | |
| OEL TWA | 32 mg/m³ (vapor and aerosol) |
| 5 ppm (vapor and aerosol) |
| OEL chemical category | Skin |
| Ireland - Occupational Exposure Limits | |
| OEL TWA | 5 ppm |
| OEL STEL | 15 ppm (calculated) |
| Poland - Occupational Exposure Limits | |
| NDS (OEL TWA) | 27 mg/m³ |
| NDSCh (OEL STEL) | 54 mg/m³ |
| Portugal - Occupational Exposure Limits | |
| OEL TWA | 5 ppm (inhalable fraction; vapor) |
| OEL chemical category | Sensitizer dermal, A4 - Not Classifiable as a Human Carcinogen, skin - potential for cutaneous exposure |
| Spain - Occupational Exposure Limits | |
| VLA-ED (OEL TWA) | 5 ppm (inhalable fraction and vapor) |
| OEL chemical category | Sensitizer, skin - potential for cutaneous absorption |
| USA - ACGIH - Occupational Exposure Limits | |
| ACGIH OEL TWA | 5 ppm (inhalable fraction and vapor) |
| ACGIH chemical category | Not Classifiable as a Human Carcinogen, Skin - potential significant contribution to overall exposure by the cutaneous route, dermal sensitizer |

| turpentine, oil (8006-64-2) | |
| --- | --- |
| Austria - Occupational Exposure Limits | |
| MAK (OEL TWA) | 560 mg/m³ |
| 100 ppm |
| MAK (OEL STEL) | 560 mg/m³ |
| 100 ppm |
| OEL C | 560 mg/m³ |
| 100 ppm |
| OEL chemical category | Skin notation, Skin sensitizer |
| Belgium - Occupational Exposure Limits | |
| OEL TWA | 20 ppm |
| Bulgaria - Occupational Exposure Limits | |
| OEL TWA | 300 mg/m³ |
| Croatia - Occupational Exposure Limits | |
| GVI (OEL TWA) | 566 mg/m³ |
| 100 ppm |
| KGVI (OEL STEL) | 850 mg/m³ |
| 150 ppm |
| OEL chemical category | Skin notation |
| Czech Republic - Occupational Exposure Limits | |
| PEL (OEL TWA) | 300 mg/m³ (steam) |
| OEL chemical category | Sensitizer |
| Denmark - Occupational Exposure Limits | |
| OEL TWA | 140 mg/m³ |
| 25 ppm |
| OEL STEL | 280 mg/m³ |
| 50 ppm |
| Estonia - Occupational Exposure Limits | |
| OEL TWA | 150 mg/m³ (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect) |
| 25 ppm (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect) |
| OEL STEL | 300 mg/m³ (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect) |
| 50 ppm (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect) |
| OEL chemical category | Skin notation, Sensitizer |
| Finland - Occupational Exposure Limits | |
| HTP (OEL TWA) | 140 mg/m³ |
| 25 ppm |
| HTP (OEL STEL) | 280 mg/m³ |
| 50 ppm |
| OEL chemical category | Potential for cutaneous absorption |
| France - Occupational Exposure Limits | |
| VME (OEL TWA) | 560 mg/m³ |
| 100 ppm |
| Greece - Occupational Exposure Limits | |
| OEL TWA | 560 mg/m³ |
| 100 ppm |
| OEL STEL | 840 mg/m³ |
| 150 ppm |
| Ireland - Occupational Exposure Limits | |
| OEL TWA | 112 mg/m³ |
| 20 ppm |
| OEL STEL | 840 mg/m³ |
| 150 ppm |
| OEL chemical category | Sensitiser |
| Lithuania - Occupational Exposure Limits | |
| IPRV (OEL TWA) | 150 mg/m³ |
| 25 ppm |
| TPRV (OEL STEL) | 300 mg/m³ |
| 50 ppm |
| OEL chemical category | Sensitizer coniferous resin sensitizes the skin, Skin notation |
| Poland - Occupational Exposure Limits | |
| NDS (OEL TWA) | 112 mg/m³ |
| NDSCh (OEL STEL) | 300 mg/m³ |
| Portugal - Occupational Exposure Limits | |
| OEL TWA | 20 ppm |
| OEL chemical category | Sensitizer dermal, A4 - Not Classifiable as a Human Carcinogen |
| Romania - Occupational Exposure Limits | |
| OEL TWA | 400 mg/m³ |
| OEL STEL | 500 mg/m³ |
| OEL chemical category | Skin notation |
| Slovakia - Occupational Exposure Limits | |
| NPHV (OEL TWA) | 560 mg/m³ |
| 100 ppm |
| NPHV (OEL C) | 850 mg/m³ (Turpentine oil) |
| OEL chemical category | Sensitizer |
| Spain - Occupational Exposure Limits | |
| VLA-ED (OEL TWA) | 113 mg/m³ |
| 20 ppm |
| OEL chemical category | Sensitizer including monoterpenes |
| Sweden - Occupational Exposure Limits | |
| NGV (OEL TWA) | 150 mg/m³ |
| 25 ppm |
| KGV (OEL STEL) | 300 mg/m³ |
| 50 ppm |
| OEL chemical category | Skin notation, Sensitizer |
| United Kingdom - Occupational Exposure Limits | |
| WEL TWA (OEL TWA) | 566 mg/m³ |
| 100 ppm |
| WEL STEL (OEL STEL) | 850 mg/m³ |
| 150 ppm |
| Norway - Occupational Exposure Limits | |
| Grenseverdi (OEL TWA) | 140 mg/m³ |
| 25 ppm |
| Korttidsverdi (OEL STEL) | 175 mg/m³ (value calculated) |
| 37.5 ppm (value calculated) |
| OEL chemical category | Skin notation, Allergenic substance |
| Switzerland - Occupational Exposure Limits | |
| MAK (OEL TWA) | 112 mg/m³ (inconsistent composition) |
| 20 ppm (inconsistent composition) |
| KZGW (OEL STEL) | 224 mg/m³ (composition inconsistent) |
| 40 ppm (composition inconsistent) |
| OEL chemical category | Sensitizer inconsistent composition, Skin notation |
| USA - ACGIH - Occupational Exposure Limits | |
| ACGIH OEL TWA | 20 ppm |
| ACGIH chemical category | Not Classifiable as a Human Carcinogen, dermal sensitizer |

| isobutyl acetate (110-19-0) | |
| --- | --- |
| Austria - Occupational Exposure Limits | |
| MAK (OEL TWA) | 241 mg/m³ (Butyl acetates) |
| 50 ppm (Butyl acetates) |
| MAK (OEL STEL) | 480 mg/m³ (Butyl acetate) |
| 100 ppm (Butyl acetate) |
| Belgium - Occupational Exposure Limits | |
| OEL TWA | 238 mg/m³ |
| 50 ppm |
| OEL STEL | 712 mg/m³ |
| 150 ppm |
| Bulgaria - Occupational Exposure Limits | |
| OEL TWA | 241 mg/m³ |
| 50 ppm |
| OEL STEL | 723 mg/m³ |
| 150 ppm |
| Croatia - Occupational Exposure Limits | |
| GVI (OEL TWA) | 241 mg/m³ |
| 50 ppm |
| KGVI (OEL STEL) | 723 mg/m³ |
| 150 ppm |
| Cyprus - Occupational Exposure Limits | |
| OEL TWA | 241 mg/m³ |
| 50 ppm |
| OEL STEL | 723 mg/m³ |
| 150 ppm |
| Czech Republic - Occupational Exposure Limits | |
| PEL (OEL TWA) | 241 mg/m³ |
| Denmark - Occupational Exposure Limits | |
| OEL TWA | 241 mg/m³ (Butyl acetate, all isomers) |
| 50 ppm (Butyl acetate, all isomers) |
| OEL STEL | 723 mg/m³ |
| 150 ppm |
| Estonia - Occupational Exposure Limits | |
| OEL TWA | 241 mg/m³ |
| 50 ppm |
| OEL STEL | 723 mg/m³ |
| 150 ppm |
| Finland - Occupational Exposure Limits | |
| HTP (OEL TWA) | 240 mg/m³ (Butyl acetate) |
| 50 ppm (Butyl acetate) |
| HTP (OEL STEL) | 725 mg/m³ (Butyl acetate) |
| 150 ppm (Butyl acetate) |
| France - Occupational Exposure Limits | |
| VME (OEL TWA) | 241 mg/m³ (restrictive limit) |
| 50 ppm (restrictive limit) |
| VLE (OEL C/STEL) | 723 mg/m³ (restrictive limit) |
| 150 ppm (restrictive limit) |
| Germany - Occupational Exposure Limits (TRGS 900) | |
| AGW (OEL TWA) | 300 mg/m³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) |
| 62 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) |
| Greece - Occupational Exposure Limits | |
| OEL TWA | 241 mg/m³ |
| 50 ppm |
| OEL STEL | 723 mg/m³ |
| 150 ppm |
| Hungary - Occupational Exposure Limits | |
| AK (OEL TWA) | 241 mg/m³ |
| CK (OEL STEL) | 723 mg/m³ |
| OEL chemical category | Sensitizer |
| Ireland - Occupational Exposure Limits | |
| OEL TWA | 241 mg/m³ |
| 50 ppm |
| OEL STEL | 723 mg/m³ (calculated) |
| 150 ppm (calculated) |
| Italy - Occupational Exposure Limits | |
| OEL TWA | 241 mg/m³ |
| 50 ppm |
| OEL STEL | 723 mg/m³ |
| 150 ppm |
| Latvia - Occupational Exposure Limits | |
| OEL TWA | 241 mg/m³ |
| 50 ppm |
| Lithuania - Occupational Exposure Limits | |
| IPRV (OEL TWA) | 241 mg/m³ |
| 50 ppm |
| TPRV (OEL STEL) | 723 mg/m³ |
| 150 ppm |
| Luxembourg - Occupational Exposure Limits | |
| OEL TWA | 241 mg/m³ |
| 50 ppm |
| OEL STEL | 723 mg/m³ |
| 150 ppm |
| Malta - Occupational Exposure Limits | |
| OEL TWA | 241 mg/m³ |
| 50 ppm |
| OEL STEL | 723 mg/m³ |
| 150 ppm |
| Netherlands - Occupational Exposure Limits | |
| TGG-8u (OEL TWA) | 241 mg/m³ |
| 50 ppm |
| TGG-15min (OEL STEL) | 723 mg/m³ |
| 150 ppm |
| Poland - Occupational Exposure Limits | |
| NDS (OEL TWA) | 240 mg/m³ |
| NDSCh (OEL STEL) | 720 mg/m³ |
| Portugal - Occupational Exposure Limits | |
| OEL TWA | 241 mg/m³ (indicative limit value) |
| 50 ppm (indicative limit value) |
| OEL STEL | 723 mg/m³ (indicative limit value) |
| 150 ppm (indicative limit value) |
| Romania - Occupational Exposure Limits | |
| OEL TWA | 241 mg/m³ |
| 50 ppm |
| OEL STEL | 723 mg/m³ |
| 150 ppm |
| Slovakia - Occupational Exposure Limits | |
| NPHV (OEL TWA) | 241 mg/m³ |
| 50 ppm |
| NPHV (OEL C) | 723 mg/m³ |
| Slovenia - Occupational Exposure Limits | |
| OEL TWA | 241 mg/m³ |
| 50 ppm |
| OEL STEL | 723 mg/m³ |
| 150 ppm |
| Spain - Occupational Exposure Limits | |
| VLA-ED (OEL TWA) | 241 mg/m³ |
| 50 ppm |
| VLA-EC (OEL STEL) | 723 mg/m³ |
| 150 ppm |
| Sweden - Occupational Exposure Limits | |
| NGV (OEL TWA) | 241 mg/m³ (Butyl acetates) |
| 50 ppm (Butyl acetates) |
| KGV (OEL STEL) | 723 mg/m³ (Butyl acetates) |
| 150 ppm (Butyl acetates) |
| United Kingdom - Occupational Exposure Limits | |
| WEL TWA (OEL TWA) | 724 mg/m³ |
| 150 ppm |
| WEL STEL (OEL STEL) | 903 mg/m³ |
| 187 ppm |
| Norway - Occupational Exposure Limits | |
| Grenseverdi (OEL TWA) | 241 mg/m³ |
| 50 ppm |
| Korttidsverdi (OEL STEL) | 723 mg/m³ (value from the regulation) |
| 150 ppm (value from the regulation) |
| Switzerland - Occupational Exposure Limits | |
| MAK (OEL TWA) | 240 mg/m³ |
| 50 ppm |
| KZGW (OEL STEL) | 720 mg/m³ |
| 150 ppm |
| USA - ACGIH - Occupational Exposure Limits | |
| ACGIH OEL TWA | 50 ppm (Butyl acetates, all isomers) |
| ACGIH OEL STEL | 150 ppm (Butyl acetates, all isomers) |

| acetophenone (98-86-2) | |
| --- | --- |
| Belgium - Occupational Exposure Limits | |
| OEL TWA | 50 mg/m³ |
| 10 ppm |
| Bulgaria - Occupational Exposure Limits | |
| OEL TWA | 5 mg/m³ |
| Denmark - Occupational Exposure Limits | |
| OEL TWA | 49 mg/m³ |
| 10 ppm |
| OEL STEL | 98 mg/m³ |
| 20 ppm |
| Finland - Occupational Exposure Limits | |
| HTP (OEL TWA) | 25 mg/m³ |
| 5 ppm |
| Hungary - Occupational Exposure Limits | |
| AK (OEL TWA) | 50 mg/m³ |
| Ireland - Occupational Exposure Limits | |
| OEL TWA | 49 mg/m³ |
| 10 ppm |
| OEL STEL | 147 mg/m³ (calculated) |
| 30 ppm (calculated) |
| Latvia - Occupational Exposure Limits | |
| OEL TWA | 5 mg/m³ |
| Lithuania - Occupational Exposure Limits | |
| IPRV (OEL TWA) | 5 mg/m³ |
| OEL chemical category | Skin notation |
| Poland - Occupational Exposure Limits | |
| NDS (OEL TWA) | 50 mg/m³ |
| NDSCh (OEL STEL) | 100 mg/m³ |
| Portugal - Occupational Exposure Limits | |
| OEL TWA | 10 ppm |
| Romania - Occupational Exposure Limits | |
| OEL TWA | 100 mg/m³ |
| 20 ppm |
| OEL STEL | 200 mg/m³ |
| 41 ppm |
| Spain - Occupational Exposure Limits | |
| VLA-ED (OEL TWA) | 50 mg/m³ |
| 10 ppm |
| USA - ACGIH - Occupational Exposure Limits | |
| ACGIH OEL TWA | 10 ppm |

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No additional information available

8.2.2. Personal protection equipment

|  |
| --- |
| Personal protective equipment: |
| Avoid all unnecessary exposure. |
| Personal protective equipment symbol(s): |
| Chemical goggles or safety glasses |

8.2.2.1. Eye and face protection

|  |
| --- |
| Eye protection: |
| Chemical goggles or safety glasses |

8.2.2.2. Skin protection

|  |
| --- |
| 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

|  |
| --- |
| Other information: |
| Do not eat, drink or smoke during use. |

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

|  |  |  |
| --- | --- | --- |
| Physical state | : | Liquid |
| Colour | : | Conforms to standard. |
| Odour | : | characteristic. |
| Odour threshold | : | Not available |
| Melting point | : | Not available |
| Freezing point | : | Not available |
| Boiling point | : | Not available |
| Flammability | : | Non flammable. |
| Lower explosion limit | : | Not available |
| Upper explosion limit | : | Not available |
| Flash point | : | > 93 °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 | : | Not available |
| Relative vapour density at 20°C | : | Not available |
| Particle characteristics | : | Not applicable |

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

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

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

| benzyl alcohol (100-51-6) | |
| --- | --- |
| LD50 oral rat | 1230 mg/kg (Source: NLM\_CIP) |
| LD50 oral | 1570 mg/kg |

| citral (5392-40-5) | |
| --- | --- |
| LD50 oral rat | 4960 mg/kg (Source: NLM\_CIP) |
| LD50 dermal rabbit | 2250 mg/kg (Source: NLM\_CIP) |

| turpentine, oil (8006-64-2) | |
| --- | --- |
| LD50 oral rat | 5760 mg/kg (Source: JAPAN\_GHS) |
| LD50 dermal rabbit | > 5010 mg/kg (Source: JAPAN\_GHS) |
| LC50 Inhalation - Rat | 13.7 mg/l/4h |
| LC50 Inhalation - Rat (Vapours) | 13.7 mg/l |

| isobutyl acetate (110-19-0) | |
| --- | --- |
| LD50 oral rat | 15400 mg/kg (Source: JAPAN\_GHS) |
| LD50 dermal rabbit | > 17400 mg/kg (Source: NLM\_CIP) |

| acetophenone (98-86-2) | |
| --- | --- |
| LD50 oral rat | 2081 mg/kg (Source: ECHA\_API) |
| LD50 oral | 500 mg/kg bodyweight |
| LD50 dermal rat | 3300 mg/kg (Source: ECHA\_API) |
| LC50 Inhalation - Rat | > 2.13 mg/l (Exposure time: 8 h Source: CHEMVIEW) |

|  |  |  |
| --- | --- | --- |
| Skin corrosion/irritation | : | Not classified |
| Additional information | : | Based on available data, the classification criteria are not met |

|  |  |  |
| --- | --- | --- |
| Serious eye damage/irritation | : | Not classified |
| Additional information | : | Based on available data, the classification criteria are not met |

|  |  |  |
| --- | --- | --- |
| Respiratory or skin sensitisation | : | Not classified |
| Additional information | : | Based on available data, the classification criteria are not met |

|  |  |  |
| --- | --- | --- |
| Germ cell mutagenicity | : | Not classified |
| Additional information | : | Based on available data, the classification criteria are not met |

|  |  |  |
| --- | --- | --- |
| Carcinogenicity | : | Not classified |
| Additional information | : | Based on available data, the classification criteria are not met |

|  |  |  |
| --- | --- | --- |
| Reproductive toxicity | : | Not classified |
| Additional information | : | Based on available data, the classification criteria are not met |

|  |  |  |
| --- | --- | --- |
| STOT-single exposure | : | Not classified |
| Additional information | : | Based on available data, the classification criteria are not met |

| isobutyl acetate (110-19-0) | |
| --- | --- |
| STOT-single exposure | May cause drowsiness or dizziness. |

|  |  |  |
| --- | --- | --- |
| STOT-repeated exposure | : | Not classified |
| Additional information | : | Based on available data, the classification criteria are not met |

|  |  |  |
| --- | --- | --- |
| Aspiration hazard | : | Not classified |
| Additional information | : | Based on available data, the classification criteria are not met |

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

|  |  |  |
| --- | --- | --- |
| Hazardous to the aquatic environment, short–term (acute) | : | Not classified |
| Hazardous to the aquatic environment, long–term (chronic) | : | Harmful to aquatic life with long lasting effects. |

| 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 |

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

| 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) |

| isobutyl acetate (110-19-0) | |
| --- | --- |
| LC50 - Fish [1] | 17 mg/l (Exposure time: 96 h - Species: Oryzias latipes Source: ECHA) |

| acetophenone (98-86-2) | |
| --- | --- |
| LC50 - Fish [1] | 162 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA) |
| LC50 - Fish [2] | 155 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: EPA) |

12.2. Persistence and degradability

| RUBY CHOCOLATE #EU12196F 5% in DPG | |
| --- | --- |
| Persistence and degradability | Not established. |

| 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide; (HHCB) (1222-05-5) | |
| --- | --- |
| Persistence and degradability | Rapidly degradable |

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

| citral (5392-40-5) | |
| --- | --- |
| Persistence and degradability | Rapidly degradable |

| turpentine, oil (8006-64-2) | |
| --- | --- |
| Persistence and degradability | Rapidly degradable |

| isobutyl acetate (110-19-0) | |
| --- | --- |
| Persistence and degradability | Rapidly degradable |

| acetophenone (98-86-2) | |
| --- | --- |
| Persistence and degradability | Rapidly degradable |

12.3. Bioaccumulative potential

| RUBY CHOCOLATE #EU12196F 5% in DPG | |
| --- | --- |
| Bioaccumulative potential | Not established. |

| 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) |

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

| citral (5392-40-5) | |
| --- | --- |
| Partition coefficient n-octanol/water (Log Pow) | 2.76 (at 25 °C) |

| isobutyl acetate (110-19-0) | |
| --- | --- |
| BCF - Fish [1] | (no significant bioconcentration) |
| Partition coefficient n-octanol/water (Log Pow) | 2.3 (at 25 °C (at pH 7) |

| acetophenone (98-86-2) | |
| --- | --- |
| Partition coefficient n-octanol/water (Log Pow) | 1.63 – 1.65 |

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

|  |  |  |
| --- | --- | --- |
| Product/Packaging disposal recommendations | : | Dispose in a safe manner in accordance with local/national regulations. |
| Ecological information | : | Avoid release to the environment. |
| HP Code | : | HP14 - “Ecotoxic:” waste which presents or may present immediate or delayed risks for one or more sectors of the environment |

SECTION 14: Transport information

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

| ADR | IMDG | IATA | ADN | RID |
| --- | --- | --- | --- | --- |
| 14.1. UN number or ID number | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.2. UN proper shipping name | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.3. Transport hazard class(es) | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.4. Packing group | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.5. Environmental hazards | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| No supplementary information available | | | | |

14.6. Special precautions for user

|  |
| --- |
| Overland transport |
| Not applicable |

|  |
| --- |
| Transport by sea |
| Not applicable |

|  |
| --- |
| Air transport |
| Not applicable |

|  |
| --- |
| Inland waterway transport |
| Not applicable |

|  |
| --- |
| Rail transport |
| Not applicable |

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

| EU restriction list (REACH Annex XVII) | | |
| --- | --- | --- |
| Reference code | Applicable on | Entry title or description |
| 3(a) | turpentine, oil ; isobutyl acetate | 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) | benzyl alcohol ; citral ; turpentine, oil ; isobutyl acetate ; acetophenone | 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) | RUBY CHOCOLATE #EU12196F 5% in DPG ; 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide; (HHCB) ; turpentine, 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 class 4.1 |
| 40. | turpentine, oil ; isobutyl acetate | Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not. |

REACH Annex XIV (Authorisation List)

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

REACH Candidate List (SVHC)

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

PIC Regulation (Prior Informed Consent)

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

POP Regulation (Persistent Organic Pollutants)

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

Ozone Regulation (1005/2009)

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

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

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

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 65 | Eczematiform lesions of allergic mechanism | | RG 84 | Conditions caused by liquid organic solvents for professional use: saturated or unsaturated aliphatic or cyclic liquid hydrocarbons and mixtures thereof; liquid halogenated hydrocarbons; nitrated derivatives of aliphatic hydrocarbons; alcohols; glycols, glycol ethers; ketones; aldehydes; aliphatic and cyclic ethers, including tetrahydrofuran; esters; dimethylformamide and dimethylacetamine; acetonitrile and propionitrile; pyridine; dimethylsulfone and dimethylsulfoxide | | | |
| Germany | | |
| Water hazard class (WGK) | : | WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1). |
| Hazardous Incident Ordinance (12. BImSchV) | : | Is not subject to the Hazardous Incident Ordinance (12. BImSchV) |
| Netherlands | | |
| ABM category | : | A(3) - hazardous for aquatic organisms, may have longterm hazardous effects in aquatic environment |
| SZW-lijst van kankerverwekkende stoffen | : | Turpentine oil is listed |
| SZW-lijst van mutagene stoffen | : | Turpentine oil is listed |
| SZW-lijst van reprotoxische stoffen – Borstvoeding | : | None of the components are listed |
| SZW-lijst van reprotoxische stoffen – Vruchtbaarheid | : | None of the components are listed |
| SZW-lijst van reprotoxische stoffen – Ontwikkeling | : | None of the components are listed |
| Denmark | | |
| Classification remarks | : | Emergency management guidelines for the storage of flammable liquids must be followed |
| Danish National Regulations | : | 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

|  |  |  |
| --- | --- | --- |
| Data sources | : | REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. |
| Other information | : | None. |

| Full text of H- and EUH-statements: | |
| --- | --- |
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal), Category 4 |
| Acute Tox. 4 (Inhalation) | Acute toxicity (inhal.), Category 4 |
| Acute Tox. 4 (Inhalation:vapour) | Acute toxicity (inhalation:vapour) Category 4 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Aquatic Acute 1 | Hazardous to the aquatic environment – Acute Hazard, Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment – Chronic Hazard, Category 1 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment – Chronic Hazard, Category 2 |
| Asp. Tox. 1 | Aspiration hazard, Category 1 |
| EUH208 | Contains benzyl alcohol. May produce an allergic reaction. |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Flam. Liq. 2 | Flammable liquids, Category 2 |
| Flam. Liq. 3 | Flammable liquids, Category 3 |
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H336 | May cause drowsiness or dizziness. |
| 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. |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| Skin Sens. 1 | Skin sensitisation, Category 1 |
| STOT SE 3 | Specific target organ toxicity – Single exposure, Category 3, Narcosis |

|  |  |  |
| --- | --- | --- |
| 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.