

HIBISCUS AND HEMP CC-16386 10% in DPG

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878



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

1.1. Product identifier

| | |
|-----------------|---|
| Product form | : Mixture |
| Product name | : HIBISCUS AND HEMP CC-16386 10% in DPG |
| Product code | : CC-16386_10% |
| 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

Candle Craft
Weiherwiese 10
65510 Idstein - Germany
T 49-6126-9363 -0
info@candlecraft.de - www.candlecraft.de

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, H412

Category 3

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 (R)-p-mentha-1,8-diene; d-limonene, Triplal (Vertocitral), Linalool. May produce an allergic reaction. |
| Extra phrases | : For professional users only. |

2.3. Other hazards

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

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

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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] |
|---|---|-----------------|---|
| Bis(2-ethylhexyl) adipate substance with national workplace exposure limit(s) (PL) | CAS-No.: 103-23-1 EC-No.: 203-090-1 REACH-no: 01-2119439699-19 | 3.01 – 6.02 | Not classified |
| 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 | 0.21 – 0.4175 | Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| Linalool | CAS-No.: 78-70-6 EC-No.: 201-134-4 EC Index-No.: 603-235-00-2 REACH-no: 01-2119474016-42 | 0.15 – 0.295 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317 |
| Triplal (Vertocitral) | CAS-No.: 68039-49-6 EC-No.: 268-264-1 | 0.08 – 0.16683 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412 |
| benzyl benzoate | CAS-No.: 120-51-4 EC-No.: 204-402-9 EC Index-No.: 607-085-00-9 REACH-no: 01-2119976371-33 | 0.07 – 0.1327 | Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 2, H411 |
| (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 | 0.07 – 0.13 | Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 3, H412 |
| 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 | 0.02 – 0.03 | Aquatic Chronic 3, H412 |
| isopentyl acetate substance with national workplace exposure limit(s) (AT, BE, BG, CY, DE, DK, EE, ES, FI, FR, GI, GR, HR, HU, IE, IT, LT, LU, LV, MT, NL, PL, PT, RO, SE, SI, SK, NO, CH, TR); substance with a Community workplace exposure limit | CAS-No.: 123-92-2 EC-No.: 204-662-3 EC Index-No.: 607-130-00-2 REACH-no: 01-2119548408-32 | 0.01 – 0.015 | Flam. Liq. 3, H226 |
| 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 | 0.0003 – 0.0018 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 |

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| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|--|-------------|---|
| .beta.-Pinene substance with national workplace exposure limit(s) (BE, EE, ES, LT, PT, SE, NO) | CAS-No.: 127-91-3 EC-No.: 204-872-5 | ≤ 0.0015 | Flam. Liq. 3, H226 |
| Dipropylene glycol monomethyl ether substance with national workplace exposure limit(s) (AT, BE, BG, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GI, GR, HR, HU, IE, IT, LT, LU, LV, MT, NL, PL, PT, RO, SE, SI, SK, NO, CH, TR); substance with a Community workplace exposure limit | CAS-No.: 34590-94-8 EC-No.: 252-104-2 | ≤ 0.00124 | Not classified |
| Alcohol C-10 substance with national workplace exposure limit(s) (BG, DE, LT, LV, RO, CH) | CAS-No.: 112-30-1 EC-No.: 203-956-9 | 0 – 0.00014 | Aquatic Chronic 3, H412 |
| .alpha.-Pinene substance with national workplace exposure limit(s) (BE, EE, ES, LT, PT, SE, NO) | CAS-No.: 80-56-8 EC-No.: 201-291-9 | ≤ 0.0001 | Flam. Liq. 3, H226 |
| Aldehyde C-6 substance with national workplace exposure limit(s) (FI, PL) | CAS-No.: 66-25-1 EC-No.: 200-624-5 | 0 – 0.00004 | Flam. Liq. 3, H226 |

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. |

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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 :

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

Joint storage not permitted for : 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

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

| Alcohol C-10 (112-30-1) | |
|---|---|
| Bulgaria - Occupational Exposure Limits | |
| OEL TWA | 10 mg/m ³ |
| Germany - Occupational Exposure Limits (TRGS 900) | |
| AGW (OEL TWA) | 66 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) |
| | 10 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) |
| Latvia - Occupational Exposure Limits | |
| OEL TWA | 10 mg/m ³ |
| Lithuania - Occupational Exposure Limits | |
| IPRV (OEL TWA) | 10 mg/m ³ |
| Romania - Occupational Exposure Limits | |
| OEL TWA | 100 mg/m ³ |
| | 15 ppm |
| OEL STEL | 200 mg/m ³ |
| | 30 ppm |
| Switzerland - Occupational Exposure Limits | |
| MAK (OEL TWA) | 66 mg/m ³ (aerosol, vapour) |
| | 10 ppm (aerosol, vapour) |
| KZGW (OEL STEL) | 66 mg/m ³ (aerosol, vapour) |
| | 10 ppm (aerosol, vapour) |
| isopentyl acetate (123-92-2) | |
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| IOEL TWA | 270 mg/m ³ |
| | 50 ppm |
| IOEL STEL | 540 mg/m ³ |
| | 100 ppm |
| Austria - Occupational Exposure Limits | |
| MAK (OEL TWA) | 270 mg/m ³ (Pentyl acetate (all isomers)) |
| | 50 ppm (Pentyl acetate (all isomers)) |
| MAK (OEL STEL) | 540 mg/m ³ (Pentylacetate) |
| | 100 ppm (Pentylacetate) |
| Belgium - Occupational Exposure Limits | |
| OEL TWA | 270 mg/m ³ |
| | 50 ppm |
| OEL STEL | 540 mg/m ³ |

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| isopentyl acetate (123-92-2) | |
|--|---|
| | 100 ppm |
| Bulgaria - Occupational Exposure Limits | |
| OEL TWA | 270 mg/m ³ |
| | 50 ppm |
| OEL STEL | 540 mg/m ³ |
| | 100 ppm |
| Croatia - Occupational Exposure Limits | |
| GVI (OEL TWA) | 270 mg/m ³ |
| | 50 ppm |
| KGVI (OEL STEL) | 540 mg/m ³ |
| | 100 ppm |
| Cyprus - Occupational Exposure Limits | |
| OEL TWA | 270 mg/m ³ |
| | 50 ppm |
| OEL STEL | 540 mg/m ³ |
| | 100 ppm |
| Denmark - Occupational Exposure Limits | |
| OEL TWA | 271 mg/m ³ (Amyl acetate, all isomers) |
| | 50 ppm (Amyl acetate, all isomers) |
| OEL STEL | 540 mg/m ³ |
| | 100 ppm |
| Estonia - Occupational Exposure Limits | |
| OEL TWA | 270 mg/m ³ |
| | 50 ppm |
| OEL STEL | 540 mg/m ³ |
| | 100 ppm |
| Finland - Occupational Exposure Limits | |
| HTP (OEL TWA) | 270 mg/m ³ (Pentyl acetate) |
| | 50 ppm (Pentyl acetate) |
| HTP (OEL STEL) | 540 mg/m ³ |
| | 100 ppm |
| France - Occupational Exposure Limits | |
| VME (OEL TWA) | 270 mg/m ³ (restrictive limit) |
| | 50 ppm (restrictive limit) |
| VLE (OEL C/STEL) | 540 mg/m ³ (restrictive limit) |
| | 100 ppm (restrictive limit) |
| Germany - Occupational Exposure Limits (TRGS 900) | |
| AGW (OEL TWA) | 270 mg/m ³ |
| | 50 ppm |

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| isopentyl acetate (123-92-2) | |
|--|-----------------------|
| Gibraltar - Occupational Exposure Limits | |
| OEL TWA | 270 mg/m ³ |
| | 50 ppm |
| OEL STEL | 540 mg/m ³ |
| | 100 ppm |
| Greece - Occupational Exposure Limits | |
| OEL TWA | 530 mg/m ³ |
| | 100 ppm |
| OEL STEL | 800 mg/m ³ |
| | 150 ppm |
| Hungary - Occupational Exposure Limits | |
| AK (OEL TWA) | 270 mg/m ³ |
| CK (OEL STEL) | 540 mg/m ³ |
| Ireland - Occupational Exposure Limits | |
| OEL TWA | 260 mg/m ³ |
| | 50 ppm |
| OEL STEL | 520 mg/m ³ |
| | 100 ppm |
| Italy - Occupational Exposure Limits | |
| OEL TWA | 270 mg/m ³ |
| | 50 ppm |
| OEL STEL | 540 mg/m ³ |
| | 100 ppm |
| Latvia - Occupational Exposure Limits | |
| OEL TWA | 270 mg/m ³ |
| | 50 ppm |
| Lithuania - Occupational Exposure Limits | |
| IPRV (OEL TWA) | 270 mg/m ³ |
| | 50 ppm |
| TPRV (OEL STEL) | 540 mg/m ³ |
| | 100 ppm |
| Luxembourg - Occupational Exposure Limits | |
| OEL TWA | 270 mg/m ³ |
| | 50 ppm |
| OEL STEL | 540 mg/m ³ |
| | 100 ppm |
| Malta - Occupational Exposure Limits | |
| OEL TWA | 270 mg/m ³ |
| | 50 ppm |

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| isopentyl acetate (123-92-2) | |
|---|---|
| OEL STEL | 540 mg/m ³ |
| | 100 ppm |
| Netherlands - Occupational Exposure Limits | |
| TGG-15min (OEL STEL) | 530 mg/m ³ |
| | 98.1 ppm |
| Poland - Occupational Exposure Limits | |
| NDS (OEL TWA) | 250 mg/m ³ |
| NDSch (OEL STEL) | 500 mg/m ³ |
| Portugal - Occupational Exposure Limits | |
| OEL TWA | 270 mg/m ³ (indicative limit value) |
| | 50 ppm (indicative limit value (Pentyl acetate, all isomers)) |
| OEL STEL | 540 mg/m ³ (indicative limit value) |
| | 100 ppm (indicative limit value) |
| Romania - Occupational Exposure Limits | |
| OEL TWA | 270 mg/m ³ |
| | 50 ppm |
| OEL STEL | 540 mg/m ³ |
| | 100 ppm |
| Slovakia - Occupational Exposure Limits | |
| NPHV (OEL TWA) | 270 mg/m ³ |
| | 50 ppm |
| NPHV (OEL C) | 540 mg/m ³ |
| Slovenia - Occupational Exposure Limits | |
| OEL TWA | 270 mg/m ³ |
| | 50 ppm |
| OEL STEL | 540 mg/m ³ |
| | 100 ppm |
| Spain - Occupational Exposure Limits | |
| VLA-ED (OEL TWA) | 270 mg/m ³ (indicative limit value) |
| | 50 ppm (indicative limit value) |
| VLA-EC (OEL STEL) | 540 mg/m ³ |
| | 100 ppm |
| Sweden - Occupational Exposure Limits | |
| NGV (OEL TWA) | 270 mg/m ³ (Pentyl acetates) |
| | 50 ppm (Pentyl acetates) |
| KGV (OEL STEL) | 540 mg/m ³ (Pentyl acetates) |
| | 100 ppm (Pentyl acetates) |
| Norway - Occupational Exposure Limits | |
| Grenseverdi (OEL TWA) | 260 mg/m ³ |

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| isopentyl acetate (123-92-2) | |
|---|--|
| | 50 ppm |
| Korttidsverdi (OEL STEL) | 325 mg/m ³ (value calculated) |
| | 75 ppm (value calculated) |
| Switzerland - Occupational Exposure Limits | |
| MAK (OEL TWA) | 260 mg/m ³ (Pentyl acetate all isomers) |
| | 50 ppm (Pentyl acetate all isomers) |
| KZGW (OEL STEL) | 260 mg/m ³ (Pentyl acetate all isomers) |
| | 50 ppm (Pentyl acetate all isomers) |
| USA - ACGIH - Occupational Exposure Limits | |
| ACGIH OEL TWA | 50 ppm (Pentyl acetate, all isomers) |
| ACGIH OEL STEL | 100 ppm (Pentyl acetate, all isomers) |
| Benzyl acetate (140-11-4) | |
| Belgium - Occupational Exposure Limits | |
| OEL TWA | 62 mg/m ³ |
| | 10 ppm |
| Denmark - Occupational Exposure Limits | |
| OEL TWA | 61 mg/m ³ |
| | 10 ppm |
| OEL STEL | 122 mg/m ³ |
| | 20 ppm |
| Ireland - Occupational Exposure Limits | |
| OEL TWA | 10 ppm |
| OEL STEL | 30 ppm (calculated) |
| Latvia - Occupational Exposure Limits | |
| OEL TWA | 5 mg/m ³ |
| Lithuania - Occupational Exposure Limits | |
| IPRV (OEL TWA) | 5 mg/m ³ |
| Portugal - Occupational Exposure Limits | |
| OEL TWA | 10 ppm |
| OEL chemical category | A4 - Not Classifiable as a Human Carcinogen |
| Romania - Occupational Exposure Limits | |
| OEL TWA | 50 mg/m ³ |
| | 8 ppm |
| OEL STEL | 80 mg/m ³ |
| | 13 ppm |
| Spain - Occupational Exposure Limits | |
| VLA-ED (OEL TWA) | 62 mg/m ³ |
| | 10 ppm |

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| Benzyl acetate (140-11-4) | |
|--|---|
| USA - ACGIH - Occupational Exposure Limits | |
| ACGIH OEL TWA | 10 ppm |
| ACGIH chemical category | Not Classifiable as a Human Carcinogen |
| (R)-p-mentha-1,8-diene; d-limonene (5989-27-5) | |
| Finland - Occupational Exposure Limits | |
| HTP (OEL TWA) | 140 mg/m ³ |
| | 25 ppm |
| HTP (OEL STEL) | 280 mg/m ³ |
| | 50 ppm |
| Germany - Occupational Exposure Limits (TRGS 900) | |
| AGW (OEL TWA) | 28 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) |
| | 5 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) |
| Chemical category | Skin notation, Skin sensitization |
| Slovenia - Occupational Exposure Limits | |
| OEL TWA | 28 mg/m ³ |
| | 5 ppm |
| OEL STEL | 112 mg/m ³ |
| | 20 ppm |
| OEL chemical category | Potential for cutaneous absorption |
| Spain - Occupational Exposure Limits | |
| VLA-ED (OEL TWA) | 168 mg/m ³ |
| | 30 ppm |
| OEL chemical category | Sensitizer, skin - potential for cutaneous absorption |
| Norway - Occupational Exposure Limits | |
| Grenseverdi (OEL TWA) | 140 mg/m ³ |
| | 25 ppm |
| Korttidsverdi (OEL STEL) | 175 mg/m ³ (value calculated) |
| | 37.5 ppm (value calculated) |
| OEL chemical category | Allergenic substance |
| Switzerland - Occupational Exposure Limits | |
| MAK (OEL TWA) | 40 mg/m ³ |
| | 7 ppm |
| KZGW (OEL STEL) | 80 mg/m ³ |
| | 14 ppm |
| OEL chemical category | Sensitizer |

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| Aldehyde C-6 (66-25-1) | |
|---|---|
| Finland - Occupational Exposure Limits | |
| HTP (OEL STEL) | 42 mg/m ³ |
| | 10 ppm |
| Poland - Occupational Exposure Limits | |
| NDS (OEL TWA) | 40 mg/m ³ |
| NDSch (OEL STEL) | 80 mg/m ³ |
| Bis(2-ethylhexyl) adipate (103-23-1) | |
| Poland - Occupational Exposure Limits | |
| NDS (OEL TWA) | 400 mg/m ³ |
| .beta.-Pinene (127-91-3) | |
| Belgium - Occupational Exposure Limits | |
| OEL TWA | 20 ppm |
| Estonia - Occupational Exposure Limits | |
| OEL TWA | 150 mg/m ³ (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/m ³ (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect) |
| | 50 ppm (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect) |
| Lithuania - Occupational Exposure Limits | |
| IPRV (OEL TWA) | 150 mg/m ³ |
| | 25 ppm |
| TPRV (OEL STEL) | 300 mg/m ³ |
| | 50 ppm |
| Portugal - Occupational Exposure Limits | |
| OEL TWA | 20 ppm (Turpentine and selected Monoterpenes) |
| OEL chemical category | Sensitizer dermal, A4 - Not Classifiable as a Human Carcinogen |
| Spain - Occupational Exposure Limits | |
| VLA-ED (OEL TWA) | 113 mg/m ³ |
| | 20 ppm |
| OEL chemical category | Sensitizer |
| Sweden - Occupational Exposure Limits | |
| NGV (OEL TWA) | 150 mg/m ³ |
| | 25 ppm |
| KGV (OEL STEL) | 300 mg/m ³ |
| | 50 ppm |
| OEL chemical category | Sensitizer |

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| .beta.-Pinene (127-91-3) | |
|---|---|
| Norway - Occupational Exposure Limits | |
| Grenseverdi (OEL TWA) | 140 mg/m ³ |
| | 25 ppm |
| Korttidsverdi (OEL STEL) | 175 mg/m ³ (value calculated) |
| | 37.5 ppm (value calculated) |
| USA - ACGIH - Occupational Exposure Limits | |
| ACGIH OEL TWA | 20 ppm (Turpentine and selected Monoterpenes) |
| ACGIH chemical category | Not Classifiable as a Human Carcinogen, dermal sensitizer |
| .alpha.-Pinene (80-56-8) | |
| Belgium - Occupational Exposure Limits | |
| OEL TWA | 20 ppm |
| Estonia - Occupational Exposure Limits | |
| OEL TWA | 150 mg/m ³ (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/m ³ (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect) |
| | 50 ppm (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect) |
| Lithuania - Occupational Exposure Limits | |
| IPRV (OEL TWA) | 150 mg/m ³ |
| | 25 ppm |
| TPRV (OEL STEL) | 300 mg/m ³ |
| | 50 ppm |
| Portugal - Occupational Exposure Limits | |
| OEL TWA | 20 ppm (Turpentine and selected Monoterpenes) |
| OEL chemical category | Sensitizer dermal, A4 - Not Classifiable as a Human Carcinogen |
| Spain - Occupational Exposure Limits | |
| VLA-ED (OEL TWA) | 113 mg/m ³ |
| | 20 ppm |
| OEL chemical category | Sensitizer |
| Sweden - Occupational Exposure Limits | |
| NGV (OEL TWA) | 150 mg/m ³ |
| | 25 ppm |
| KGV (OEL STEL) | 300 mg/m ³ |
| | 50 ppm |
| OEL chemical category | Sensitizer |
| Norway - Occupational Exposure Limits | |
| Grenseverdi (OEL TWA) | 140 mg/m ³ |

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| .alpha.-Pinene (80-56-8) | |
|---|---|
| | 25 ppm |
| Korttidsverdi (OEL STEL) | 175 mg/m ³ (value calculated) |
| | 37.5 ppm (value calculated) |
| OEL chemical category | Skin notation |
| USA - ACGIH - Occupational Exposure Limits | |
| ACGIH OEL TWA | 20 ppm (Turpentine and selected Monoterpenes) |
| ACGIH chemical category | Not Classifiable as a Human Carcinogen, dermal sensitizer |
| Dipropylene glycol monomethyl ether (34590-94-8) | |
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| IOEL TWA | 308 mg/m ³ |
| | 50 ppm |
| Remark | Possibility of significant uptake through the skin |
| Austria - Occupational Exposure Limits | |
| MAK (OEL TWA) | 307 mg/m ³ (mixed isomers) |
| | 50 ppm (mixed isomers) |
| MAK (OEL STEL) | 614 mg/m ³ (isomers mixtures) |
| | 100 ppm (isomers mixtures) |
| OEL chemical category | Skin notation |
| Belgium - Occupational Exposure Limits | |
| OEL TWA | 308 mg/m ³ |
| | 50 ppm |
| OEL chemical category | Skin, Skin notation |
| Bulgaria - Occupational Exposure Limits | |
| OEL TWA | 308 mg/m ³ |
| | 50 ppm |
| Croatia - Occupational Exposure Limits | |
| GVI (OEL TWA) | 308 mg/m ³ |
| | 50 ppm |
| OEL chemical category | Skin notation |
| Cyprus - Occupational Exposure Limits | |
| OEL TWA | 308 mg/m ³ |
| | 50 ppm |
| OEL chemical category | Skin-potential for cutaneous absorption |
| Czech Republic - Occupational Exposure Limits | |
| PEL (OEL TWA) | 270 mg/m ³ |
| OEL chemical category | Potential for cutaneous absorption |
| Denmark - Occupational Exposure Limits | |
| OEL TWA | 309 mg/m ³ |
| | 50 ppm |

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| Dipropylene glycol monomethyl ether (34590-94-8) | |
|--|---|
| OEL STEL | 618 mg/m ³ |
| | 100 ppm |
| OEL chemical category | Potential for cutaneous absorption |
| Estonia - Occupational Exposure Limits | |
| OEL TWA | 308 mg/m ³ |
| | 50 ppm |
| OEL chemical category | Skin notation |
| Finland - Occupational Exposure Limits | |
| HTP (OEL TWA) | 310 mg/m ³ |
| | 50 ppm |
| OEL chemical category | Potential for cutaneous absorption |
| France - Occupational Exposure Limits | |
| VME (OEL TWA) | 308 mg/m ³ (restrictive limit) |
| | 50 ppm (restrictive limit) |
| OEL chemical category | Risk of cutaneous absorption |
| Germany - Occupational Exposure Limits (TRGS 900) | |
| AGW (OEL TWA) | 310 mg/m ³ (isomer mixture) |
| | 50 ppm (isomer mixture) |
| Gibraltar - Occupational Exposure Limits | |
| OEL TWA | 308 mg/m ³ |
| | 50 ppm |
| OEL chemical category | Skin notation |
| Greece - Occupational Exposure Limits | |
| OEL TWA | 600 mg/m ³ |
| | 100 ppm |
| OEL STEL | 900 mg/m ³ |
| | 150 ppm |
| OEL chemical category | skin - potential for cutaneous absorption |
| Hungary - Occupational Exposure Limits | |
| AK (OEL TWA) | 308 mg/m ³ |
| Ireland - Occupational Exposure Limits | |
| OEL TWA | 308 mg/m ³ ((2-Methoxymethylethoxy)propanol) |
| | 50 ppm ((2-Methoxymethylethoxy)propanol) |
| OEL STEL | 924 mg/m ³ (calculated (2-(2-Methoxypropoxy)-1-propanol) |
| | 150 ppm (calculated (2-(2-Methoxypropoxy)-1-propanol) |
| OEL chemical category | Potential for cutaneous absorption |
| Italy - Occupational Exposure Limits | |
| OEL TWA | 308 mg/m ³ (1-(3-Methoxypropoxy)propan-1-ol) |
| | 50 ppm (1-(3-Methoxypropoxy)propan-1-ol) |

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| Dipropylene glycol monomethyl ether (34590-94-8) | |
|---|--|
| OEL chemical category | skin - potential for cutaneous absorption |
| Latvia - Occupational Exposure Limits | |
| OEL TWA | 308 mg/m ³ |
| | 50 ppm |
| OEL chemical category | skin - potential for cutaneous exposure |
| Lithuania - Occupational Exposure Limits | |
| IPRV (OEL TWA) | 300 mg/m ³ (2-(2-Methoxypropoxy)-propanol) |
| | 50 ppm (2-(2-Methoxypropoxy)-propanol) |
| TPRV (OEL STEL) | 450 mg/m ³ (2-(2-Methoxypropoxy)-propanol) |
| | 75 ppm (2-(2-Methoxypropoxy)-propanol) |
| OEL chemical category | Skin notation |
| Luxembourg - Occupational Exposure Limits | |
| OEL TWA | 308 mg/m ³ |
| | 50 ppm |
| OEL chemical category | Possibility of significant uptake through the skin |
| Malta - Occupational Exposure Limits | |
| OEL TWA | 308 mg/m ³ |
| | 50 ppm |
| OEL chemical category | Possibility of significant uptake through the skin |
| Netherlands - Occupational Exposure Limits | |
| TGG-8u (OEL TWA) | 300 mg/m ³ |
| | 48.7 ppm |
| Poland - Occupational Exposure Limits | |
| NDS (OEL TWA) | 240 mg/m ³ (mixture of isomers: 1-(2-Methoxy-1-methylethoxy)propan-2-ol, 1-(2-Methoxy-2-methylethoxy)propan-2-ol and 2-(2-Methoxy-1-methylethoxy)propan-1-ol) |
| NDSch (OEL STEL) | 480 mg/m ³ (mixture of isomers: 1-(2-Methoxy-1-methylethoxy)propan-2-ol, 1-(2-Methoxy-2-methylethoxy)propan-2-ol, 2-(2-Methoxy-1-methylethoxy)propan-1-ol) |
| Portugal - Occupational Exposure Limits | |
| OEL TWA | 308 mg/m ³ (indicative limit value) |
| | 50 ppm (indicative limit value) |
| OEL STEL | 150 ppm |
| OEL chemical category | skin - potential for cutaneous exposure indicative limit value |
| Romania - Occupational Exposure Limits | |
| OEL TWA | 308 mg/m ³ |
| | 50 ppm |
| OEL chemical category | Skin notation |
| Slovakia - Occupational Exposure Limits | |
| NPHV (OEL TWA) | 308 mg/m ³ |
| | 50 ppm |
| OEL chemical category | Potential for cutaneous absorption |

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| Dipropylene glycol monomethyl ether (34590-94-8) | |
|---|--|
| Slovenia - Occupational Exposure Limits | |
| OEL TWA | 308 mg/m ³ |
| | 50 ppm |
| OEL STEL | 308 mg/m ³ |
| | 50 ppm |
| OEL chemical category | Potential for cutaneous absorption |
| Spain - Occupational Exposure Limits | |
| VLA-ED (OEL TWA) | 308 mg/m ³ (indicative limit value) |
| | 50 ppm (indicative limit value) |
| OEL chemical category | skin - potential for cutaneous absorption |
| Sweden - Occupational Exposure Limits | |
| NGV (OEL TWA) | 300 mg/m ³ |
| | 50 ppm |
| KGV (OEL STEL) | 450 mg/m ³ |
| | 75 ppm |
| OEL chemical category | Skin notation |
| United Kingdom - Occupational Exposure Limits | |
| WEL TWA (OEL TWA) | 308 mg/m ³ |
| | 50 ppm |
| WEL STEL (OEL STEL) | 924 mg/m ³ (calculated) |
| | 150 ppm (calculated) |
| OEL chemical category | Potential for cutaneous absorption |
| Norway - Occupational Exposure Limits | |
| Grenseverdi (OEL TWA) | 300 mg/m ³ |
| | 50 ppm |
| Korttidsverdi (OEL STEL) | 375 mg/m ³ (value calculated) |
| | 75 ppm (value calculated) |
| OEL chemical category | Skin notation |
| Switzerland - Occupational Exposure Limits | |
| MAK (OEL TWA) | 300 mg/m ³ (aerosol, vapour) |
| | 50 ppm (aerosol, vapour) |
| KZGW (OEL STEL) | 300 mg/m ³ (aerosol, vapour) |
| | 50 ppm (aerosol, vapour) |
| USA - ACGIH - Occupational Exposure Limits | |
| ACGIH OEL TWA | 50 ppm (Dipropylene glycol methyl ether) |
| citral (5392-40-5) | |
| Belgium - Occupational Exposure Limits | |
| OEL TWA | 32 mg/m ³ (vapor and aerosol) |
| | 5 ppm (vapor and aerosol) |

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| citral (5392-40-5) | |
|---|---|
| OEL chemical category | Skin |
| Ireland - Occupational Exposure Limits | |
| OEL TWA | 5 ppm |
| OEL STEL | 15 ppm (calculated) |
| Poland - Occupational Exposure Limits | |
| NDS (OEL TWA) | 27 mg/m ³ |
| NDSch (OEL STEL) | 54 mg/m ³ |
| Portugal - Occupational Exposure Limits | |
| OEL TWA | 5 ppm (inhalable fraction; vapor) |
| OEL chemical category | Sensitizer dermal, A4 - Not Classifiable as a Human Carcinogen, skin - potential for cutaneous exposure |
| Spain - Occupational Exposure Limits | |
| VLA-ED (OEL TWA) | 5 ppm (inhalable fraction and vapor) |
| OEL chemical category | Sensitizer, skin - potential for cutaneous absorption |
| USA - ACGIH - Occupational Exposure Limits | |
| ACGIH OEL TWA | 5 ppm (inhalable fraction and vapor) |
| ACGIH chemical category | Not Classifiable as a Human Carcinogen, Skin - potential significant contribution to overall exposure by the cutaneous route, dermal sensitizer |

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):



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.

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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 | : 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.

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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

Alcohol C-10 (112-30-1)

| | |
|--------------------|------------------------------|
| LD50 oral rat | 4720 mg/kg (Source: NZ_CCID) |
| LD50 dermal rabbit | 3560 mg/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) |

(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) |

Aldehyde C-6 (66-25-1)

| | |
|--------------------|---------------------------------|
| LD50 oral rat | 4890 mg/kg (Source: NLM_CIP) |
| LD50 dermal rabbit | > 8100 mg/kg (Source: ECHA_API) |

Triplal (Vertocitral) (68039-49-6)

| | |
|-----------|------------|
| LD50 oral | 2330 mg/kg |
|-----------|------------|

Bis(2-ethylhexyl) adipate (103-23-1)

| | |
|-----------------------|------------------------------|
| LD50 oral rat | 5600 mg/kg (Source: NLM_CIP) |
| LD50 dermal rabbit | 8410 mg/kg (Source: NLM_CIP) |
| LC50 Inhalation - Rat | > 5.7 mg/l/4h |

Linalool (78-70-6)

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

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) |

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) |
|---------------|---------------------------------|

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| 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide; (HHCB) (1222-05-5) | |
|---|--|
| LD50 dermal rabbit | > 3250 mg/kg (Source: CHEMVIEW) |
| LC50 Inhalation - Rat | > 5.04 mg/l/4h |
| .beta.-Pinene (127-91-3) | |
| LD50 oral rat | > 5000 mg/kg (Source: EPA_HP) |
| LD50 dermal rabbit | > 5000 mg/kg (Source: CHEMVIEW) |
| .alpha.-Pinene (80-56-8) | |
| LD50 oral rat | 3700 mg/kg (Source: NLM_CIP) |
| LD50 dermal rat | > 5000 mg/kg (Source: CHEMVIEW) |
| Dipropylene glycol monomethyl ether (34590-94-8) | |
| LD50 oral rat | 5.35 g/kg (Source: NLM_HSD) |
| LD50 dermal rabbit | 9500 mg/kg (Source: NLM_CIP) |
| citral (5392-40-5) | |
| LD50 oral rat | 4960 mg/kg (Source: NLM_CIP) |
| LD50 dermal rabbit | 2250 mg/kg (Source: NLM_CIP) |
| 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 |
| Benzyl acetate (140-11-4) | |
| IARC group | 3 - Not classifiable |
| (R)-p-mentha-1,8-diene; d-limonene (5989-27-5) | |
| IARC group | 3 - Not classifiable |
| Bis(2-ethylhexyl) adipate (103-23-1) | |
| IARC group | 3 - Not classifiable |
| 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 |
| 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 |
| (R)-p-mentha-1,8-diene; d-limonene (5989-27-5) | |
| Hydrocarbon | Yes |
| benzyl benzoate (120-51-4) | |
| Viscosity, kinematic | 7.456 mm ² /s |

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| .beta.-Pinene (127-91-3) | |
|---------------------------------|-----|
| Hydrocarbon | Yes |

| .alpha.-Pinene (80-56-8) | |
|---------------------------------|-----|
| 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

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.

| Alcohol C-10 (112-30-1) | |
|--------------------------------|--|
| LC50 - Fish [1] | 2.2 – 2.5 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA) |
| LC50 - Fish [2] | 4.12 – 6.2 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: EPA) |
| EC50 - Crustacea [1] | 3 mg/l (Exposure time: 48 h - Species: Daphnia magna) |

| (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) |

| Aldehyde C-6 (66-25-1) | |
|-------------------------------|--|
| LC50 - Fish [1] | 12 – 16.5 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA) |

| Bis(2-ethylhexyl) adipate (103-23-1) | |
|---|--|
| LC50 - Fish [1] | 0.48 – 0.85 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: EPA) |
| LC50 - Fish [2] | 0.48 – 0.85 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static] Source: EPA) |
| EC50 - Crustacea [1] | > 1.6 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| EC50 72h - Algae [1] | > 500 mg/l (Species: Desmodesmus subspicatus) |

| Linalool (78-70-6) | |
|---------------------------|--|
| EC50 96h - Algae [1] | 88.3 mg/l (Species: Desmodesmus subspicatus) |

| 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 |

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| 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 |
| .alpha.-Pinene (80-56-8) | |
| LC50 - Fish [1] | 0.28 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: IUCLID) |
| EC50 - Crustacea [1] | 41 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| Dipropylene glycol monomethyl ether (34590-94-8) | |
| LC50 - Fish [1] | > 10000 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) |
| EC50 - Crustacea [1] | 1919 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| 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) |
| 12.2. Persistence and degradability | |
| HIBISCUS AND HEMP CC-16386 10% in DPG | |
| Persistence and degradability | Not established. |
| Alcohol C-10 (112-30-1) | |
| Persistence and degradability | Rapidly degradable |
| isopentyl acetate (123-92-2) | |
| Persistence and degradability | Rapidly degradable |
| Benzyl acetate (140-11-4) | |
| Persistence and degradability | Rapidly degradable |
| (R)-p-mentha-1,8-diene; d-limonene (5989-27-5) | |
| Persistence and degradability | Rapidly degradable |
| Aldehyde C-6 (66-25-1) | |
| Persistence and degradability | Rapidly degradable |
| Triplal (Vertocitral) (68039-49-6) | |
| Persistence and degradability | Rapidly degradable |
| Bis(2-ethylhexyl) adipate (103-23-1) | |
| Persistence and degradability | Rapidly degradable |
| Linalool (78-70-6) | |
| Persistence and degradability | Rapidly degradable |
| benzyl benzoate (120-51-4) | |
| Persistence and degradability | May cause long-term adverse effects in the environment. |

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| | |
|---|---------------------------------------|
| 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 |
| .beta.-Pinene (127-91-3) | |
| Persistence and degradability | Rapidly degradable |
| .alpha.-Pinene (80-56-8) | |
| Persistence and degradability | Rapidly degradable |
| Dipropylene glycol monomethyl ether (34590-94-8) | |
| Persistence and degradability | Rapidly degradable |
| citral (5392-40-5) | |
| Persistence and degradability | Rapidly degradable |
| 12.3. Bioaccumulative potential | |
| HIBISCUS AND HEMP CC-16386 10% in DPG | |
| Bioaccumulative potential | Not established. |
| Alcohol C-10 (112-30-1) | |
| Partition coefficient n-octanol/water (Log Pow) | 4.5 (at 25 °C (at pH 6) |
| isopentyl acetate (123-92-2) | |
| Partition coefficient n-octanol/water (Log Pow) | 2.7 (at 35 °C) |
| Benzyl acetate (140-11-4) | |
| Partition coefficient n-octanol/water (Log Pow) | 1.96 (at 25 °C (at pH 7) |
| (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) |
| Aldehyde C-6 (66-25-1) | |
| Partition coefficient n-octanol/water (Log Pow) | 2.3 (at 25 °C (at pH 5) |
| Bis(2-ethylhexyl) adipate (103-23-1) | |
| BCF - Fish [1] | (27 dimensionless) |
| Partition coefficient n-octanol/water (Log Pow) | 8.94 (at 25 °C) |
| benzyl benzoate (120-51-4) | |
| Partition coefficient n-octanol/water (Log Pow) | 3.97 (at 25 °C) |
| 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) |
| .alpha.-Pinene (80-56-8) | |
| Partition coefficient n-octanol/water (Log Pow) | 4.1 |
| Dipropylene glycol monomethyl ether (34590-94-8) | |
| Partition coefficient n-octanol/water (Log Pow) | 0.35 (at 25 °C (at pH 7) |

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citral (5392-40-5)

| | |
|---|-----------------|
| Partition coefficient n-octanol/water (Log Pow) | 2.76 (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

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

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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) | isopentyl acetate ; (R)-p-mentha-1,8-diene; d-limonene ; Aldehyde C-6 ; .beta.-Pinene ; .alpha.-Pinene | 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) | (R)-p-mentha-1,8-diene; d-limonene ; Triplal (Vertocitral) ; Linalool ; benzyl benzoate ; citral | 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) | HIBISCUS AND HEMP CC-16386 10% in DPG ; Alcohol C-10 ; Benzyl acetate ; (R)-p-mentha-1,8-diene; d-limonene ; Triplal (Vertocitral) ; 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. | isopentyl acetate ; (R)-p-mentha-1,8-diene; d-limonene ; Aldehyde C-6 ; .beta.-Pinene ; .alpha.-Pinene | 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)

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Dual-Use Regulation (428/2009)

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

Explosives Precursors Regulation (2019/1148)

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

Drug Precursors Regulation (273/2004)

Contains 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

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 : Triplal (Vertocitral) is listed
SZW-lijst van mutagene stoffen : Triplal (Vertocitral) 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 (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 |

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| Full text of H- and EUH-statements: | |
|-------------------------------------|---|
| Aquatic Chronic 3 | Hazardous to the aquatic environment – Chronic Hazard, Category 3 |
| Asp. Tox. 1 | Aspiration hazard, Category 1 |
| EUH208 | Contains (R)-p-mentha-1,8-diene; d-limonene, Triplal (Vertocitral), Linalool. May produce an allergic reaction. |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Flam. Liq. 3 | Flammable liquids, Category 3 |
| H226 | Flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| 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 |
| 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.