

BLACK CURRANT FR23422

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 6/5/2024 Version: 1.0

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

1.1. Product identifier

Product form : Mixture
Product name : BLACK CURRANT FR23422
Product code : FR23422
Type of product : Perfumes, fragrances
Product group : Trade product

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

1.2.1. Relevant identified uses

Main use category : Professional use, Industrial use
Industrial/Professional use spec : Industrial
For professional use only
Use of the substance/mixture : Perfumes, fragrances
Function or use category : Odour agents

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Hyggeland Company
Russian Federation
Krasnodar
Stasova st. 184, 7
Phone.: +7 (953) 073-39-63
info@hyggeland.ru

1.4. Emergency telephone number

Emergency number : 1-800-255-3924; +01-813-248-0585; China:+400-120-0751; Mexico:+01-800-099-0731;
Brazil: +0-800-591-6042; India: +000-800-100-4086

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Skin sensitisation, Category 1 H317
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

Harmful to aquatic life with long lasting effects. May cause an allergic skin reaction.

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS07

Signal word (CLP) :

Warning

Contains :

Citronellol Pure; Hexyl cinnamic aldehyde; Geraniol; Nerol; Lavandin abrialis oil; Cajeput oil; Triplal (Vertocitral); Hydroxy; Phenylacetaldehyde; Elemi oil

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| | |
|--------------------------------|--|
| Hazard statements (CLP) | : H317 - May cause an allergic skin reaction. H412 - Harmful to aquatic life with long lasting effects. |
| Precautionary statements (CLP) | : P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P272 - Contaminated work clothing should not be allowed out of the workplace. P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P302+P352 - IF ON SKIN: Wash with plenty of water. P321 - Specific treatment (see supplemental first aid instruction on this label). |
| Extra phrases | : For professional users only. |

2.3. Other hazards

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

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

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|-------------------------|--|-------------|--|
| Phenylethyl alcohol | CAS-No.: 60-12-8 EC-No.: 200-456-2 REACH-no: 01-2119963921-31 | 2.9 – 5.8 | Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 |
| Citronellol Pure | CAS-No.: 106-22-9 EC-No.: 203-375-0 REACH-no: 01-2119453995-23 | 1.2 – 2.4 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317 |
| Hexyl cinnamic aldehyde | CAS-No.: 101-86-0 EC-No.: 202-983-3 REACH-no: 01-2119533092-50 | 1 – 1.9 | Skin Sens. 1, H317 Aquatic Chronic 2, H411 |
| Geraniol | CAS-No.: 106-24-1 EC-No.: 203-377-1 EC Index-No.: 603-241-00-5 REACH-no: 01-2119552430-49 | 0.42 – 0.84 | Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 |
| Nerol | CAS-No.: 106-25-2 EC-No.: 203-378-7 | 0.28 – 0.56 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 |
| Lavandin abrialis oil | CAS-No.: 8022-15-9 EC-No.: 617-009-6 | 0.2 – 0.35 | Eye Irrit. 2, H319 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Chronic 3, H412 |

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| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--|--|--------------|--|
| Cajeput oil | CAS-No.: 8008-98-8 EC-No.: 287-316-4 | 0.2 – 0.35 | Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 |
| Triplal (Vertocitral) | CAS-No.: 68039-49-6 EC-No.: 268-264-1 | 0.1 – 0.1815 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412 |
| Hydroxy | CAS-No.: 107-75-5 EC-No.: 203-518-7 REACH-no: 01-2119973482-31 | 0.1 – 0.15 | Eye Irrit. 2, H319 Skin Sens. 1B, H317 |
| Camphor substance with national workplace exposure limit(s) (AT, BE, BG, DK, ES, FI, FR, GB, GR, HR, IE, LT, PL, PT, RO, SK, NO, CH) | CAS-No.: 76-22-2 EC-No.: 200-945-0 | 0.1 – 0.15 | Flam. Sol. 2, H228 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 2, H371 Aquatic Chronic 2, H411 |
| Phenylacetaldehyde | CAS-No.: 122-78-1 EC-No.: 204-574-5 REACH-no: 01-2120766865-37 | 0.1 – 0.1 | Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1B, H317 Aquatic Chronic 3, H412 |
| Elemi oil | CAS-No.: 8023-89-0 | 0.1 – 0.1 | Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| Rose oxide | CAS-No.: 16409-43-1 EC-No.: 240-457-5 | 0.1 – 0.1 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 2, H361 |
| 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 – 0.0028 | Aquatic Chronic 3, H412 |
| Aldehyde C-6 substance with national workplace exposure limit(s) (FI, PL) | CAS-No.: 66-25-1 EC-No.: 200-624-5 | 0 – 0.0007 | 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 exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation

: Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest.

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| | |
|---------------------------------------|--|
| First-aid measures after skin contact | : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see Get medical advice/attention. on this label). If skin irritation occurs: Get medical advice/attention. Wash with plenty of water/.... Get medical advice/attention. Wash contaminated clothing before reuse. Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention. |
| First-aid measures after eye contact | : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists. Rinse eyes with water as a precaution. |
| First-aid measures after ingestion | : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a poison center or a doctor if you feel unwell. |

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

| | |
|-------------------------------------|---|
| Symptoms/effects | : Suspected of damaging fertility or the unborn child. Not expected to present a significant hazard under anticipated conditions of normal use. |
| Symptoms/effects after skin contact | : May cause an allergic skin reaction. |

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

| | |
|--------------------------------|--|
| Suitable extinguishing media | : 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

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

5.3. Advice for firefighters

| | |
|--------------------------------|--|
| Firefighting instructions | : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment. |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

| | |
|----------------------|--|
| Emergency procedures | : Ventilate spillage area. Evacuate unnecessary personnel. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. |
|----------------------|--|

6.1.2. For emergency responders

| | |
|----------------------|--|
| Protective equipment | : Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection". |
| Emergency procedures | : Ventilate area. |

6.2. Environmental precautions

Avoid release to the environment. 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 | : Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. |
| Other information | : Dispose of materials or solid residues at an authorized site. |

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6.4. Reference to other sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Avoid breathing dust/fume/gas/mist/vapours/spray. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with skin and eyes. Wear personal protective equipment.
- Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container closed when not in use. Store in a well-ventilated place. Keep cool.
- Incompatible products : Strong bases. Strong acids.
- Incompatible materials : Sources of ignition. Direct sunlight.
- Storage temperature : 25 °C
- Storage area : Store in a well-ventilated place. Store away from heat.
- Special rules on packaging : Store in a closed container.
- Packaging materials : Do not store in corrodable metal.

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

Camphor (76-22-2)

Austria - Occupational Exposure Limits

MAK (OEL TWA)

13 mg/m³

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| Camphor (76-22-2) | |
|---|---|
| | 2 ppm |
| Belgium - Occupational Exposure Limits | |
| OEL TWA | 12 mg/m ³ |
| | 2 ppm |
| OEL STEL | 19 mg/m ³ |
| | 3 ppm |
| Bulgaria - Occupational Exposure Limits | |
| OEL TWA | 12 mg/m ³ |
| OEL STEL | 18 mg/m ³ |
| Croatia - Occupational Exposure Limits | |
| GVI (OEL TWA) | 13 mg/m ³ |
| | 2 ppm |
| KGV (OEL STEL) | 19 mg/m ³ |
| | 3 ppm |
| Denmark - Occupational Exposure Limits | |
| OEL TWA | 12 mg/m ³ |
| | 2 ppm |
| OEL STEL | 24 mg/m ³ |
| | 4 ppm |
| Finland - Occupational Exposure Limits | |
| HTP (OEL TWA) | 1.9 mg/m ³ |
| | 0.3 ppm |
| HTP (OEL STEL) | 5.7 mg/m ³ |
| | 0.9 ppm |
| France - Occupational Exposure Limits | |
| VME (OEL TWA) | 12 mg/m ³ |
| | 2 ppm |
| Greece - Occupational Exposure Limits | |
| OEL TWA | 12 mg/m ³ (inhalable fraction) |
| OEL STEL | 18 mg/m ³ |
| Ireland - Occupational Exposure Limits | |
| OEL TWA | 12 mg/m ³ |
| | 2 ppm |
| OEL STEL | 18 mg/m ³ |
| | 3 ppm |
| Lithuania - Occupational Exposure Limits | |
| IPRV (OEL TWA) | 3 mg/m ³ |
| Poland - Occupational Exposure Limits | |
| NDS (OEL TWA) | 12 mg/m ³ |

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| Camphor (76-22-2) | |
|--|--|
| NDSCh (OEL STEL) | 18 mg/m ³ |
| Portugal - Occupational Exposure Limits | |
| OEL TWA | 2 ppm |
| OEL STEL | 3 ppm |
| OEL chemical category | A4 - Not Classifiable as a Human Carcinogen |
| Romania - Occupational Exposure Limits | |
| OEL TWA | 1 mg/m ³ |
| | 6 ppm |
| OEL STEL | 3 mg/m ³ |
| | 18 ppm |
| Slovakia - Occupational Exposure Limits | |
| NPHV (OEL TWA) | 13 mg/m ³ |
| | 2 ppm |
| NPHV (OEL C) | 26 mg/m ³ |
| Spain - Occupational Exposure Limits | |
| VLA-ED (OEL TWA) | 13 mg/m ³ |
| | 2 ppm |
| VLA-EC (OEL STEL) | 19 mg/m ³ |
| | 3 ppm |
| United Kingdom - Occupational Exposure Limits | |
| WEL TWA (OEL TWA) | 13 mg/m ³ |
| | 2 ppm |
| WEL STEL (OEL STEL) | 19 mg/m ³ |
| | 3 ppm |
| Norway - Occupational Exposure Limits | |
| Grenseverdi (OEL TWA) | 12 mg/m ³ |
| | 2 ppm |
| Korttidsverdi (OEL STEL) | 18 mg/m ³ (value calculated) |
| | 4 ppm (value calculated) |
| Switzerland - Occupational Exposure Limits | |
| MAK (OEL TWA) | 13 mg/m ³ (aerosol, vapour) |
| | 2 ppm (aerosol, vapour) |
| USA - ACGIH - Occupational Exposure Limits | |
| ACGIH OEL TWA | 2 ppm (synthetic) |
| ACGIH OEL STEL | 3 ppm (synthetic) |
| ACGIH chemical category | Not Classifiable as a Human Carcinogen synthetic |
| Alcohol C-10 (112-30-1) | |
| Bulgaria - Occupational Exposure Limits | |
| OEL TWA | 10 mg/m ³ |

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| Alcohol C-10 (112-30-1) | |
|--|---|
| Germany - Occupational Exposure Limits (TRGS 900) | |
| AGW (OEL TWA) | 66 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) |
| | 10 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) |
| Latvia - Occupational Exposure Limits | |
| OEL TWA | 10 mg/m ³ |
| Lithuania - Occupational Exposure Limits | |
| IPRV (OEL TWA) | 10 mg/m ³ |
| Romania - Occupational Exposure Limits | |
| OEL TWA | 100 mg/m ³ |
| | 15 ppm |
| OEL STEL | 200 mg/m ³ |
| | 30 ppm |
| Switzerland - Occupational Exposure Limits | |
| MAK (OEL TWA) | 66 mg/m ³ (aerosol, vapour) |
| | 10 ppm (aerosol, vapour) |
| KZGW (OEL STEL) | 66 mg/m ³ (aerosol, vapour) |
| | 10 ppm (aerosol, vapour) |
| Aldehyde C-6 (66-25-1) | |
| Finland - Occupational Exposure Limits | |
| HTP (OEL STEL) | 42 mg/m ³ |
| | 10 ppm |
| Poland - Occupational Exposure Limits | |
| NDS (OEL TWA) | 40 mg/m ³ |
| NDSch (OEL STEL) | 80 mg/m ³ |

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment:

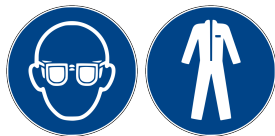
Avoid all unnecessary exposure.

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Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Chemical goggles or safety glasses. Safety glasses

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Wear protective gloves.

8.2.2.3. Respiratory protection

Respiratory protection:

Wear appropriate mask

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

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. light yellow. amber. |
| Odour | : characteristic. |
| Odour threshold | : Not available |
| Melting point | : Not applicable |
| Freezing point | : Not available |
| Boiling point | : Not available |
| Flammability | : Not applicable |
| Lower explosion limit | : Not available |
| Upper explosion limit | : Not available |
| Flash point | : > 93.3 °C |
| Auto-ignition temperature | : Not available |
| Decomposition temperature | : Not available |
| pH | : Not available |
| Viscosity, kinematic | : Not available |
| Solubility | : Not available |
| Partition coefficient n-octanol/water (Log Kow) | : Not available |
| Vapour pressure | : 0.000419209 mm Hg (calculated value) |
| Vapour pressure at 50°C | : Not available |
| Density | : Not available |
| Relative density | : Not available |
| Relative vapour density at 20°C | : Not available |
| Particle characteristics | : Not applicable |

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9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

VOC content : 4.3344 % (calculated value)(CARB VOC) (%w/w)

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

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

| Phenylethyl alcohol (60-12-8) | |
|------------------------------------|---------------------------------|
| LD50 oral rat | 1609 mg/kg (Source: EPA_HP.V) |
| LD50 oral | 1610 mg/kg |
| LD50 dermal rabbit | 2535 mg/kg (Source: EPA_HP.V) |
| LC50 Inhalation - Rat | > 4.63 mg/l/4h |
| Citronellol Pure (106-22-9) | |
| LD50 oral rat | 3450 mg/kg (Source: NLM_CIP) |
| LD50 oral | 3450 mg/kg bodyweight |
| LD50 dermal rabbit | 2650 mg/kg (Source: EPA_HP.V) |
| LD50 dermal | 2650 mg/kg bodyweight |
| Hexyl cinnamic aldehyde (101-86-0) | |
| LD50 oral rat | 3100 mg/kg (Source: NLM_CIP) |
| LD50 oral | 3100 mg/kg bodyweight |
| LD50 dermal rabbit | > 3000 mg/kg (Source: EPA_HP.V) |

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| Hexyl cinnamic aldehyde (101-86-0) | |
|------------------------------------|---------------------------------|
| LC50 Inhalation - Rat | > 5 mg/l/4h |
| Geraniol (106-24-1) | |
| LD50 oral rat | 3600 mg/kg (Source: NLM_CIP) |
| LD50 oral | 3600 mg/kg bodyweight |
| LD50 dermal rabbit | > 5 g/kg (Source: NLM_CIP) |
| Nerol (106-25-2) | |
| LD50 oral rat | 4500 mg/kg (Source: NLM_CIP) |
| LD50 oral | 4500 mg/kg bodyweight |
| LD50 dermal rabbit | > 5 g/kg (Source: NLM_CIP) |
| Lavandin abrialis oil (8022-15-9) | |
| LD50 oral rat | > 5 g/kg (Source: NLM_CIP) |
| Cajeput oil (8008-98-8) | |
| LD50 oral rat | 3870 mg/kg (Source: NLM_CIP) |
| LD50 oral | 3870 mg/kg bodyweight |
| Triplal (Vertocitral) (68039-49-6) | |
| LD50 oral | 2330 mg/kg |
| Hydroxy (107-75-5) | |
| LD50 oral rat | > 5 g/kg (Source: NLM_CIP) |
| LD50 dermal rabbit | > 2000 mg/kg (Source: ECHA_API) |
| Camphor (76-22-2) | |
| LD50 oral | 1500 mg/kg |
| LD50 dermal rat | > 2000 mg/kg (Source: ECHA_API) |
| Phenylacetaldehyde (122-78-1) | |
| LD50 oral | 1550 mg/kg |
| Elemi oil (8023-89-0) | |
| LD50 oral rat | 3370 mg/kg (Source: NLM_CIP) |
| LD50 oral | 3370 mg/kg |
| Rose oxide (16409-43-1) | |
| LD50 oral rat | 4300 mg/kg (Source: NLM_CIP) |
| LD50 oral | 4300 mg/kg bodyweight |
| Alcohol C-10 (112-30-1) | |
| LD50 oral rat | 4720 mg/kg (Source: NZ_CCID) |
| LD50 dermal rabbit | 3560 mg/kg (Source: NLM_CIP) |
| Aldehyde C-6 (66-25-1) | |
| LD50 oral rat | 4890 mg/kg (Source: NLM_CIP) |
| LD50 dermal rabbit | > 8100 mg/kg (Source: ECHA_API) |

Skin corrosion/irritation : Not classified

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| | |
|-----------------------------------|--|
| Serious eye damage/irritation | : Not classified |
| Respiratory or skin sensitisation | : May cause an allergic skin reaction. |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : Not classified |

Camphor (76-22-2)

| | |
|------------------------|-----------------------------|
| STOT-single exposure | May cause damage to organs. |
| STOT-repeated exposure | : Not classified |
| Aspiration hazard | : Not classified |

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

No additional information available

11.2.2. Other information

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

SECTION 12: Ecological information

12.1. Toxicity

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

Phenylethyl alcohol (60-12-8)

| | |
|----------------------|--|
| EC50 - Crustacea [1] | 287.17 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| EC50 72h - Algae [1] | 490 mg/l (Species: Desmodesmus subspicatus) |

Geraniol (106-24-1)

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

Nerol (106-25-2)

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

Alcohol C-10 (112-30-1)

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

Aldehyde C-6 (66-25-1)

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

12.2. Persistence and degradability

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| | |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |
|-------------------------------|------------------|

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| | |
|---|--------------------------|
| Phenylethyl alcohol (60-12-8) | |
| Persistence and degradability | Rapidly degradable |
| Citronellol Pure (106-22-9) | |
| Persistence and degradability | Rapidly degradable |
| Hexyl cinnamic aldehyde (101-86-0) | |
| Persistence and degradability | Rapidly degradable |
| Geraniol (106-24-1) | |
| Persistence and degradability | Rapidly degradable |
| Nerol (106-25-2) | |
| Persistence and degradability | Rapidly degradable |
| Lavandin abrialis oil (8022-15-9) | |
| Persistence and degradability | Rapidly degradable |
| Cajeput oil (8008-98-8) | |
| Persistence and degradability | Rapidly degradable |
| Triplal (Vertocitral) (68039-49-6) | |
| Persistence and degradability | Rapidly degradable |
| Hydroxy (107-75-5) | |
| Persistence and degradability | Rapidly degradable |
| Camphor (76-22-2) | |
| Persistence and degradability | Rapidly degradable |
| Phenylacetaldehyde (122-78-1) | |
| Persistence and degradability | Rapidly degradable |
| Elemi oil (8023-89-0) | |
| Persistence and degradability | Rapidly degradable |
| Rose oxide (16409-43-1) | |
| Persistence and degradability | Rapidly degradable |
| Alcohol C-10 (112-30-1) | |
| Persistence and degradability | Rapidly degradable |
| Aldehyde C-6 (66-25-1) | |
| Persistence and degradability | Rapidly degradable |
| 12.3. Bioaccumulative potential | |
| BLACK CURRANT FR23422 | |
| Bioaccumulative potential | Not established. |
| Phenylethyl alcohol (60-12-8) | |
| Partition coefficient n-octanol/water (Log Pow) | 1.36 (at 20 °C (at pH 7) |

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| Citronellol Pure (106-22-9) | |
|---|-----------------------------|
| Partition coefficient n-octanol/water (Log Pow) | 3.41 (at 25 °C) |
| Geraniol (106-24-1) | |
| Partition coefficient n-octanol/water (Log Pow) | 2.6 (at 25 °C) |
| Nerol (106-25-2) | |
| Partition coefficient n-octanol/water (Log Pow) | 2.76 (at 30 °C (at pH 6.5)) |
| Hydroxy (107-75-5) | |
| Partition coefficient n-octanol/water (Log Pow) | 1.68 (at 25 °C) |
| Camphor (76-22-2) | |
| Partition coefficient n-octanol/water (Log Pow) | 2.414 (at 25 °C) |
| Phenylacetaldehyde (122-78-1) | |
| Partition coefficient n-octanol/water (Log Pow) | 1.44 (at 25 °C (at pH 6.4)) |
| Rose oxide (16409-43-1) | |
| Partition coefficient n-octanol/water (Log Pow) | 3.3 (at 23 °C (at pH 6.5)) |
| Alcohol C-10 (112-30-1) | |
| Partition coefficient n-octanol/water (Log Pow) | 4.5 (at 25 °C (at pH 6)) |
| Aldehyde C-6 (66-25-1) | |
| Partition coefficient n-octanol/water (Log Pow) | 2.3 (at 25 °C (at pH 5)) |

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

Additional information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

| | |
|--|---|
| Waste treatment methods | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| Product/Packaging disposal recommendations | : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container in accordance with local/national laws and regulations. |
| Ecological information | : Avoid release to the environment. |
| HP Code | : HP4 - "Irritant – skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye. HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment |

SECTION 14: Transport information

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

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| ADR | IMDG | IATA | ADN | RID |
|---|----------------|----------------|----------------|----------------|
| 14.1. UN number or ID number | | | | |
| 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) | Cajeput oil ; Elemi oil ; Aldehyde C-6 | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F |

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| EU restriction list (REACH Annex XVII) | | |
|--|---|--|
| Reference code | Applicable on | Entry title or description |
| 3(b) | BLACK CURRANT FR23422 ; Phenylethyl alcohol ; Citronellol Pure ; Hexyl cinnamic aldehyde ; Geraniol ; Nerol ; Lavandin abrialis oil ; Cajeput oil ; Triplal (Vertocitral) ; Hydroxy ; Phenylacetaldehyde ; Elemi oil ; Rose oxide | 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) | BLACK CURRANT FR23422 ; Hexyl cinnamic aldehyde ; Lavandin abrialis oil ; Cajeput oil ; Triplal (Vertocitral) ; Phenylacetaldehyde ; Elemi oil ; Alcohol C-10 | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1 |
| 40. | Cajeput oil ; Camphor ; Elemi oil ; Aldehyde C-6 | Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not. |

REACH Annex XIV (Authorisation List)

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

REACH Candidate List (SVHC)

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

PIC Regulation (Prior Informed Consent)

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

POP Regulation (Persistent Organic Pollutants)

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

Ozone Regulation (1005/2009)

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

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.

VOC Directive (2004/42)

VOC content : 4.3344 % (calculated value)(CARB VOC) (%w/w)

Explosives Precursors Regulation (2019/1148)

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

Drug Precursors Regulation (273/2004)

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

15.1.2. National regulations

Germany

Water hazard class (WGK) : WGK 2, Significantly hazardous to water (Classification according to AwSV, Annex 1).
Hazardous Incident Ordinance (12. BImSchV) : Is not subject to the Hazardous Incident Ordinance (12. BImSchV)

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Netherlands

| | |
|--|--|
| ABM category | : A(3) - hazardous for aquatic organisms, may have longterm hazardous effects in aquatic environment |
| SZW-lijst van kankerverwekkende stoffen | : Cajeput oil, Triplal (Vertocitral) are listed |
| SZW-lijst van mutagene stoffen | : Cajeput oil, Triplal (Vertocitral) are listed |
| SZW-lijst van reprotoxische stoffen – Borstvoeding | : None of the components are listed |
| SZW-lijst van reprotoxische stoffen – | : None of the components are listed |
| Vruchtbaarheid | |
| SZW-lijst van reprotoxische stoffen – Ontwikkeling | : None of the components are listed |

Denmark

| | |
|-----------------------------|---|
| Classification remarks | : Emergency management guidelines for the storage of flammable liquids must be followed |
| Danish National Regulations | : Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with the product |

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Other information : None.

| Full text of H- and EUH-statements: | |
|-------------------------------------|---|
| Acute Tox. 4 (Inhalation) | Acute toxicity (inhal.), Category 4 |
| Acute Tox. 4 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 4 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Aquatic Acute 1 | Hazardous to the aquatic environment – Acute Hazard, Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment – Chronic Hazard, Category 1 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment – Chronic Hazard, Category 2 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment – Chronic Hazard, Category 3 |
| Asp. Tox. 1 | Aspiration hazard, Category 1 |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Flam. Liq. 3 | Flammable liquids, Category 3 |
| Flam. Sol. 2 | Flammable solids, Category 2 |
| H226 | Flammable liquid and vapour. |
| H228 | Flammable solid. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |

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| Full text of H- and EUH-statements: | |
|-------------------------------------|--|
| H361 | Suspected of damaging fertility or the unborn child. |
| H371 | May cause damage to organs. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| Repr. 2 | Reproductive toxicity, Category 2 |
| Skin Corr. 1B | Skin corrosion/irritation, Category 1, Sub-Category 1B |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| Skin Sens. 1 | Skin sensitisation, Category 1 |
| Skin Sens. 1B | Skin sensitisation, category 1B |
| STOT SE 2 | Specific target organ toxicity – Single exposure, Category 2 |

The classification complies with : ATP 12

Safety Data Sheet (SDS), EU