

TYPE 26 - ABS CC-16091 5% 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 : TYPE 26 - ABS CC-16091 5% in DPG
Product code : CC-16091_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

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]

Skin sensitisation, Category 1 H317
Carcinogenicity, Category 1B H350
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]

Hazard pictograms (CLP)



Signal word (CLP)

: Danger

Contains

: Cinnamic aldehyde; beta-Caryophyllene; Cinnamon leaf oil ; benzyl alcohol; Linalool; Vertenex

Hazard statements (CLP)

: H317 - May cause an allergic skin reaction.
H350 - May cause cancer.

Precautionary statements (CLP)

: P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing

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protection.

P302+P352 - IF ON SKIN: Wash with plenty of water.

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] |
|---|--|---------------|---|
| 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 | 1.415 – 2.83 | Aquatic Acute 1, H400 |
| Cinnamic aldehyde | CAS-No.: 104-55-2 EC-No.: 203-213-9 EC Index-No.: 606-155-00-6 REACH-no: 01-2119935242-45 | 0.3 – 0.6 | Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1A, H317 Aquatic Chronic 3, H412 |
| beta-Caryophyllene | CAS-No.: 87-44-5 EC-No.: 201-746-1 REACH-no: 01-2120745237-53 | 0.2 – 0.4 | Asp. Tox. 1, H304 Skin Sens. 1B, H317 |
| Cinnamon leaf oil | CAS-No.: 8015-91-6 EC-No.: 283-479-0 REACH-no: 01-2119487278-23 | 0.09 – 0.175 | Acute Tox. 3 (Dermal), H311 Eye Irrit. 2, H319 Skin Sens. 1, H317 Muta. 2, H341 Carc. 1B, H350 Aquatic Chronic 3, H412 |
| 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 | 0.075 – 0.15 | Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 |
| Linalool | CAS-No.: 78-70-6 EC-No.: 201-134-4 EC Index-No.: 603-235-00-2 REACH-no: 01-2119474016-42 | 0.07 – 0.1375 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317 |
| Vertenex | CAS-No.: 32210-23-4 EC-No.: 250-954-9 REACH-no: 01-2119976286-24 | 0.05 – 0.1 | Skin Sens. 1B, H317 |

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| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|----------------|---|
| (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 | 0.005 – 0.01 | Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 3, H412 |
| 1,2-Propanediol substance with national workplace exposure limit(s) (GB, HR, IE, LT, LV, PL, NO) | CAS-No.: 57-55-6 EC-No.: 200-338-0 REACH-no: 01-2119456809-23 | 0 – 0.00485 | Not classified |
| ethyl lactate; ethyl DL-lactate substance with national workplace exposure limit(s) (FI, LT, SE) | CAS-No.: 97-64-3 EC-No.: 202-598-0 EC Index-No.: 607-129-00-7 | 0 – 0.0025 | Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 |
| 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 – 0.00000635 | Not classified |
| Toluene 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.: 108-88-3 EC-No.: 203-625-9 EC Index-No.: 601-021-00-3 | ≤ 0.000000075 | Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 |

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. |

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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 6.1D - Non-combustible substances of acute toxicity, category 3 / hazardous substances that are toxic or produce chronic effects

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 2A, LGK 4.1A, LGK 5.1A, LGK 5.1C, LGK 5.2, LGK 6.2, LGK 7
- Joint storage with restrictions permitted for : LGK 3, LGK 4.1B, LGK 4.2, LGK 4.3, LGK 5.1B
- Joint storage permitted for : LGK 2B, 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

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Switzerland

Storage class (LK) : LK 6.1 - Toxic materials

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

| Bis(2-ethylhexyl) adipate (103-23-1) | |
|--|---|
| Poland - Occupational Exposure Limits | |
| NDS (OEL TWA) | 400 mg/m ³ |
| benzyl alcohol (100-51-6) | |
| Bulgaria - Occupational Exposure Limits | |
| OEL TWA | 5 mg/m ³ |
| Czech Republic - Occupational Exposure Limits | |
| PEL (OEL TWA) | 40 mg/m ³ |
| Finland - Occupational Exposure Limits | |
| HTP (OEL TWA) | 45 mg/m ³ |
| | 10 ppm |
| Germany - Occupational Exposure Limits (TRGS 900) | |
| AGW (OEL TWA) | 22 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 |
| Latvia - Occupational Exposure Limits | |
| OEL TWA | 5 mg/m ³ |
| Lithuania - Occupational Exposure Limits | |
| IPRV (OEL TWA) | 5 mg/m ³ |
| OEL chemical category | Skin notation |
| Poland - Occupational Exposure Limits | |
| NDS (OEL TWA) | 240 mg/m ³ |
| Slovenia - Occupational Exposure Limits | |
| OEL TWA | 22 mg/m ³ |
| | 5 ppm |
| OEL STEL | 44 mg/m ³ |
| | 10 ppm |
| OEL chemical category | Potential for cutaneous absorption |
| Switzerland - Occupational Exposure Limits | |
| MAK (OEL TWA) | 22 mg/m ³ (aerosol, vapour) |

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| benzyl alcohol (100-51-6) | |
|--|---|
| | 5 ppm (aerosol, vapour) |
| OEL chemical category | Skin notation |
| (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 |
| Kortidsverdi (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 |
| 1,2-Propanediol (57-55-6) | |
| Croatia - Occupational Exposure Limits | |
| GVI (OEL TWA) | 474 mg/m ³ (total vapor and particles) 10 mg/m ³ (particles) |

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| 1,2-Propanediol (57-55-6) | |
|---|--|
| | 150 ppm |
| Ireland - Occupational Exposure Limits | |
| OEL TWA | 10 mg/m ³ (particulate) 470 mg/m ³ (total vapour and particulates) 150 ppm (total vapour and particulates) |
| OEL STEL | 1410 mg/m ³ (calculated-particulates) 30 mg/m ³ (calculated) 450 ppm (calculated-total vapor and particulates) |
| Latvia - Occupational Exposure Limits | |
| OEL TWA | 7 mg/m ³ |
| Lithuania - Occupational Exposure Limits | |
| IPRV (OEL TWA) | 7 mg/m ³ |
| Poland - Occupational Exposure Limits | |
| NDS (OEL TWA) | 100 mg/m ³ (vapor and inhalable fraction) |
| United Kingdom - Occupational Exposure Limits | |
| WEL TWA (OEL TWA) | 474 mg/m ³ (total vapour and particulate) 10 mg/m ³ (particulate) 150 ppm (total vapour and particulate) |
| WEL STEL (OEL STEL) | 1422 mg/m ³ (calculated-total vapour and particulate) 30 mg/m ³ (calculated-particulate) 450 ppm (calculated-total vapour and particulate) |
| Norway - Occupational Exposure Limits | |
| Grenseverdi (OEL TWA) | 79 mg/m ³ 25 ppm |
| Korttidsverdi (OEL STEL) | 118.5 mg/m ³ (value calculated) 37.5 ppm (value calculated) |
| ethyl lactate; ethyl DL-lactate (97-64-3) | |
| Finland - Occupational Exposure Limits | |
| HTP (OEL TWA) | 25 mg/m ³ 5 ppm |
| HTP (OEL STEL) | 49 mg/m ³ 10 ppm |
| Lithuania - Occupational Exposure Limits | |
| IPRV (OEL TWA) | 25 mg/m ³ 5 ppm |
| TPRV (OEL STEL) | 50 mg/m ³ 10 ppm |
| Sweden - Occupational Exposure Limits | |
| NGV (OEL TWA) | 25 mg/m ³ (same limit value expressed in ppm shall be applied for those lactates for which no limit values have been defined) |

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| ethyl lactate; ethyl DL-lactate (97-64-3) | |
|--|--|
| | 5 ppm (same limit value expressed in ppm shall be applied for those lactates for which no limit values have been defined) |
| KGV (OEL STEL) | 50 mg/m ³ (same limit value expressed in ppm shall be applied for those lactates for which no limit values have been defined) |
| | 10 ppm (same limit value expressed in ppm shall be applied for those lactates for which no limit values have been defined) |
| Toluene (108-88-3) | |
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| IOEL TWA | 192 mg/m ³ |
| | 50 ppm |
| IOEL STEL | 384 mg/m ³ |
| | 100 ppm |
| Remark | Possibility of significant uptake through the skin |
| Austria - Occupational Exposure Limits | |
| MAK (OEL TWA) | 190 mg/m ³ |
| | 50 ppm |
| MAK (OEL STEL) | 380 mg/m ³ |
| | 100 ppm |
| OEL chemical category | Skin notation |
| Belgium - Occupational Exposure Limits | |
| OEL TWA | 77 mg/m ³ |
| | 20 ppm |
| OEL STEL | 384 mg/m ³ |
| | 100 ppm |
| OEL chemical category | Skin, Skin notation |
| Bulgaria - Occupational Exposure Limits | |
| OEL TWA | 192 mg/m ³ |
| | 50 ppm |
| OEL STEL | 384 mg/m ³ |
| | 100 ppm |
| Bulgaria - Biological limit values | |
| BLV | 1.6 mmol/mmol Creatinine Parameter: Hippuric acid - Medium: urine - Sampling time: at the end of exposure or end of work shift |
| Croatia - Occupational Exposure Limits | |
| GVI (OEL TWA) | 192 mg/m ³ |
| | 50 ppm |
| KGVI (OEL STEL) | 384 mg/m ³ |
| | 100 ppm |
| OEL chemical category | Skin notation |

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| Toluene (108-88-3) | |
|--|--|
| Croatia - Biological limit values | |
| BLV | 1 mg/l Parameter: Toluene - Medium: blood - Sampling time: at the end of the work shift 20 ppm Parameter: Toluene - Medium: final exhaled air - Sampling time: during exposure 2.5 g/g creatinine Parameter: Hippuric acid - Medium: urine - Sampling time: at the end of the work shift (calculated on the average Creatinine value of 1.2 g/L urine) 1 mg/g creatinine Parameter: o-Cresol - Medium: urine - Sampling time: at the end of the work shift (calculated on the average Creatinine value of 1.2 g/L urine) |
| Cyprus - Occupational Exposure Limits | |
| OEL TWA | 192 mg/m ³ 50 ppm |
| OEL STEL | 384 mg/m ³ 100 ppm |
| OEL chemical category | Skin-potential for cutaneous absorption |
| Czech Republic - Occupational Exposure Limits | |
| PEL (OEL TWA) | 200 mg/m ³ |
| OEL chemical category | Potential for cutaneous absorption |
| Czech Republic - Biological limit values | |
| BLV | 1.6 µmol/mmol Creatinine Parameter: o-Cresol - Medium: urine - Sampling time: end of shift (after hydrolysis) 1000 µmol/mmol Creatinine Parameter: Hippuric acid - Medium: urine - Sampling time: end of shift (exposure testing using the o-Cresol parameter to precisely measure Toluene exposure is needed if the value of Hippuric acid is between 1600 and 2500 mg/g of Creatinine, no additional testing is needed if the Hippuric acid value is >2500 mg/g of Creatinine as work exposure to Toluene will have highly exceeded the PEL value.) 1.5 mg/g creatinine Parameter: o-Cresol - Medium: urine - Sampling time: end of shift (after hydrolysis) 1600 mg/g creatinine Parameter: Hippuric acid - Medium: urine - Sampling time: end of shift (exposure testing using the o-Cresol parameter to precisely measure Toluene exposure is needed if the value of Hippuric acid is between 1600 and 2500 mg/g of Creatinine, no additional testing is needed if the Hippuric acid value is >2500 mg/g of Creatinine as work exposure to Toluene will have highly exceeded the PEL value.) |
| Denmark - Occupational Exposure Limits | |
| OEL TWA | 94 mg/m ³ 25 ppm |
| OEL STEL | 384 mg/m ³ 100 ppm |
| OEL chemical category | Potential for cutaneous absorption |
| Estonia - Occupational Exposure Limits | |
| OEL TWA | 192 mg/m ³ 50 ppm |
| OEL STEL | 384 mg/m ³ 100 ppm |
| OEL chemical category | Skin notation |
| Finland - Occupational Exposure Limits | |
| HTP (OEL TWA) | 81 mg/m ³ |

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| Toluene (108-88-3) | |
|---|--|
| | 25 ppm |
| HTP (OEL STEL) | 380 mg/m ³ |
| | 100 ppm |
| OEL chemical category | Potential for cutaneous absorption |
| Finland - Biological limit values | |
| BLV | 500 nmol/L Parameter: Toluene - Medium: blood - Sampling time: in the morning after a working day |
| France - Occupational Exposure Limits | |
| VME (OEL TWA) | 76.8 mg/m ³ (restrictive limit) |
| | 20 ppm (restrictive limit) |
| VLE (OEL C/STEL) | 384 mg/m ³ (restrictive limit) |
| | 100 ppm (restrictive limit) |
| OEL chemical category | Reproductive Toxin category 2, Risk of cutaneous absorption |
| France - Biological limit values | |
| BLV | 20 µg/l Parameter: Toluene - Medium: blood - Sampling time: end of workweek (Semi-quantitative (ambiguous interpretation)) Parameter: Hippuric acid - Medium: urine - Sampling time: end of shift (per the Authority, the values for this substance must be decided and/or determined on a case by case basis. Guidance for the calculation of and interpretation of values is provided in the source) |
| Germany - Occupational Exposure Limits (TRGS 900) | |
| AGW (OEL TWA) | 190 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) |
| | 50 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) |
| Chemical category | Skin notation |
| Germany - Biological limit values (TRGS 903) | |
| Biological limit value | 600 µg/l Parameter: Toluene - Medium: whole blood - Sampling time: immediately after exposure 75 µg/l Parameter: Toluene - Medium: urine - Sampling time: end of shift 1.5 mg/l Parameter: o-Cresol (after hydrolysis) - Medium: urine - Sampling time: for long-term exposures: at the end of the shift after several shifts 1.5 mg/l Parameter: o-Cresol (after hydrolysis) - Medium: urine - Sampling time: end of shift |
| Gibraltar - Occupational Exposure Limits | |
| OEL TWA | 192 mg/m ³ |
| | 50 ppm |
| OEL STEL | 384 mg/m ³ |
| | 100 ppm |
| OEL chemical category | Skin notation |
| Greece - Occupational Exposure Limits | |
| OEL TWA | 192 mg/m ³ |
| | 50 ppm |
| OEL STEL | 384 mg/m ³ |

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| Toluene (108-88-3) | |
|---|---|
| | 100 ppm |
| OEL chemical category | skin - potential for cutaneous absorption |
| Hungary - Occupational Exposure Limits | |
| AK (OEL TWA) | 190 mg/m ³ |
| CK (OEL STEL) | 384 mg/m ³ |
| OEL chemical category | Potential for cutaneous absorption |
| Ireland - Occupational Exposure Limits | |
| OEL TWA | 192 mg/m ³ |
| | 50 ppm |
| OEL STEL | 384 mg/m ³ |
| | 100 ppm |
| OEL chemical category | Potential for cutaneous absorption |
| Italy - Occupational Exposure Limits | |
| OEL TWA | 192 mg/m ³ |
| | 50 ppm |
| OEL chemical category | skin - potential for cutaneous absorption |
| Latvia - Occupational Exposure Limits | |
| OEL TWA | 50 mg/m ³ |
| | 14 ppm |
| OEL chemical category | skin - potential for cutaneous exposure |
| Latvia - Biological Exposure Indices | |
| BEI | 1.6 g/g creatinine Parameter: Hippuric acid - Medium: urine - Sampling time: end of shift 0.05 mg/l Parameter: Toluene - Medium: blood - Sampling time: end of shift |
| Lithuania - Occupational Exposure Limits | |
| IPRV (OEL TWA) | 192 mg/m ³ |
| | 50 ppm |
| TPRV (OEL STEL) | 384 mg/m ³ |
| | 100 ppm |
| OEL chemical category | Reproductive toxin, Skin notation |
| Luxembourg - Occupational Exposure Limits | |
| OEL TWA | 192 mg/m ³ |
| | 50 ppm |
| OEL STEL | 384 mg/m ³ |
| | 100 ppm |
| OEL chemical category | Possibility of significant uptake through the skin |
| Malta - Occupational Exposure Limits | |
| OEL TWA | 192 mg/m ³ |
| | 50 ppm |
| OEL STEL | 384 mg/m ³ |

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| Toluene (108-88-3) | |
|---|---|
| | 100 ppm |
| OEL chemical category | Possibility of significant uptake through the skin |
| Netherlands - Occupational Exposure Limits | |
| TGG-8u (OEL TWA) | 150 mg/m ³ |
| | 39 ppm |
| TGG-15min (OEL STEL) | 384 mg/m ³ |
| | 100 ppm |
| Poland - Occupational Exposure Limits | |
| NDS (OEL TWA) | 100 mg/m ³ |
| NDSch (OEL STEL) | 200 mg/m ³ |
| Portugal - Occupational Exposure Limits | |
| OEL TWA | 192 mg/m ³ (indicative limit value) |
| | 50 ppm (indicative limit value) |
| OEL STEL | 384 mg/m ³ (indicative limit value) |
| | 100 ppm (indicative limit value) |
| OEL chemical category | A4 - Not Classifiable as a Human Carcinogen, skin - potential for cutaneous exposure indicative limit value |
| Romania - Occupational Exposure Limits | |
| OEL TWA | 192 mg/m ³ |
| | 50 ppm |
| OEL STEL | 384 mg/m ³ |
| | 100 ppm |
| OEL chemical category | Skin notation |
| Romania - Biological limit values | |
| BLV | 2 g/l Parameter: Hippuric acid - Medium: urine - Sampling time: end of shift 3 mg/l Parameter: o-Cresol - Medium: urine - Sampling time: end of shift |
| Slovakia - Occupational Exposure Limits | |
| NPHV (OEL TWA) | 192 mg/m ³ |
| | 50 ppm |
| NPHV (OEL C) | 384 mg/m ³ (also biological monitoring considered) |
| OEL chemical category | Potential for cutaneous absorption |
| Slovakia - Biological limit values | |
| BLV | 600 µg/l Parameter: Toluene - Medium: blood - Sampling time: end of exposure or work shift 1.5 mg/l Parameter: o-Cresol - Medium: urine - Sampling time: after all work shifts (for long-term exposure) 1.5 mg/l Parameter: o-Cresol - Medium: urine - Sampling time: end of exposure or work shift 2401 mg/g creatinine Parameter: Hippuric acid - Sampling time: end of exposure or work shift |
| Slovenia - Occupational Exposure Limits | |
| OEL TWA | 192 mg/m ³ |

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| Toluene (108-88-3) | |
|---|---|
| | 50 ppm |
| OEL STEL | 384 mg/m ³ |
| | 100 ppm |
| OEL chemical category | Category 2, Potential for cutaneous absorption |
| Spain - Occupational Exposure Limits | |
| VLA-ED (OEL TWA) | 192 mg/m ³ (indicative limit value) |
| | 50 ppm (indicative limit value) |
| VLA-EC (OEL STEL) | 384 mg/m ³ |
| | 100 ppm |
| OEL chemical category | skin - potential for cutaneous absorption |
| Spain - Biological limit values | |
| BLV | 0.6 mg/l Parameter: o-Cresol - Medium: urine - Sampling time: end of shift 0.05 mg/l Parameter: Toluene - Medium: blood - Sampling time: start of last shift of workweek 0.08 mg/l Parameter: Toluene - Medium: urine - Sampling time: end of shift |
| Sweden - Occupational Exposure Limits | |
| NGV (OEL TWA) | 192 mg/m ³ |
| | 50 ppm |
| KGV (OEL STEL) | 384 mg/m ³ |
| | 100 ppm |
| OEL chemical category | Skin notation |
| United Kingdom - Occupational Exposure Limits | |
| WEL TWA (OEL TWA) | 191 mg/m ³ |
| | 50 ppm |
| WEL STEL (OEL STEL) | 384 mg/m ³ |
| | 100 ppm |
| WEL chemical category | Potential for cutaneous absorption |
| Norway - Occupational Exposure Limits | |
| Grenseverdi (OEL TWA) | 94 mg/m ³ |
| | 25 ppm |
| Korttidsverdi (OEL STEL) | 141 mg/m ³ (value calculated) |
| | 37.5 ppm (value calculated) |
| OEL chemical category | Skin notation |
| Switzerland - Occupational Exposure Limits | |
| MAK (OEL TWA) | 190 mg/m ³ |
| | 50 ppm |
| KZGW (OEL STEL) | 760 mg/m ³ |
| | 200 ppm |
| OEL chemical category | Skin notation, Category 2 reproductive toxin |

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| Toluene (108-88-3) | |
|---|--|
| Switzerland - BAT | |
| BAT | 600 µg/l Parameter: Toluene - Medium: whole blood - Sampling time: end of shift 6.48 µmol/l Parameter: Toluene - Medium: whole blood - Sampling time: end of shift 2 g/g creatinine Parameter: Hippuric acid - Medium: urine - Sampling time: end of shift, and after several shifts (for long-term exposures) Parameter: Hippuric acid - Medium: urine - Sampling time: end of shift, and after several shifts (for long-term exposures) 0.5 mg/l Parameter: o-Cresol - Medium: urine - Sampling time: end of shift, and after several shifts (for long-term exposures) 4.62 µmol/l Parameter: o-Cresol - Medium: urine - Sampling time: end of shift, and after several shifts (for long-term exposures) 75 µg/l Parameter: Toluol - Medium: urine - Sampling time: end of shift |
| USA - ACGIH - Occupational Exposure Limits | |
| ACGIH OEL TWA | 20 ppm |
| ACGIH chemical category | Not Classifiable as a Human Carcinogen |
| USA - ACGIH - Biological Exposure Indices | |
| BEI | 0.02 mg/l Parameter: Toluene - Medium: blood - Sampling time: prior to last shift of workweek 0.03 mg/l Parameter: Toluene - Medium: urine - Sampling time: end of shift 0.3 mg/g creatinine Parameter: o-Cresol with hydrolysis - Medium: urine - Sampling time: end of shift (background) |
| 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 |

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| Dipropylene glycol monomethyl ether (34590-94-8) | |
|--|---|
| 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 |
| 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 |

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| Dipropylene glycol monomethyl ether (34590-94-8) | |
|---|--|
| 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) |
| 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) |

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| Dipropylene glycol monomethyl ether (34590-94-8) | |
|---|--|
| | 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 |
| 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) |
| WEL 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 |

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Dipropylene glycol monomethyl ether (34590-94-8)

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

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.

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.

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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.

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SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

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 |

Cinnamic aldehyde (104-55-2)

| | |
|--------------------|------------------------------|
| LD50 oral rat | 2220 mg/kg (Source: NLM_CIP) |
| LD50 oral | 2220 mg/kg |
| LD50 dermal rabbit | 1260 mg/kg (Source: EPA_HP) |

Cinnamon leaf oil (8015-91-6)

| | |
|--------------------|------------------------------|
| LD50 oral rat | 2650 mg/kg (Source: NZ_CCID) |
| LD50 oral | 2650 mg/kg |
| LD50 dermal rabbit | 702 mg/kg (Source: ECHA_API) |

benzyl alcohol (100-51-6)

| | |
|---------------|------------------------------|
| LD50 oral rat | 1230 mg/kg (Source: NLM_CIP) |
| LD50 oral | 1570 mg/kg |

Linalool (78-70-6)

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

Vertenex (32210-23-4)

| | |
|--------------------|---------------------------------|
| LD50 oral rat | 5 g/kg (Source: NLM_CIP) |
| LD50 oral | 3370 mg/kg bodyweight |
| LD50 dermal rabbit | > 5000 mg/kg (Source: CHEMVIEW) |

(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) |

1,2-Propanediol (57-55-6)

| | |
|--------------------|-------------------------------|
| LD50 oral rat | 20 g/kg (Source: NLM_CIP) |
| LD50 dermal rabbit | 20800 mg/kg (Source: NLM_CIP) |

ethyl lactate; ethyl DL-lactate (97-64-3)

| | |
|--------------------|------------------------------|
| LD50 oral rat | 8200 mg/kg (Source: NLM_CIP) |
| LD50 oral | 2500 mg/kg bodyweight |
| LD50 dermal rabbit | > 5 g/kg (Source: NLM_HSDB) |

Toluene (108-88-3)

| | |
|--------------------|---------------------------------|
| LD50 oral rat | 2600 mg/kg (Source: JAPAN_GHS) |
| LD50 dermal rabbit | 12000 mg/kg (Source: JAPAN_GHS) |

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| Toluene (108-88-3) | |
|---|--|
| LC50 Inhalation - Rat | 12.5 mg/l/4h |
| Dipropylene glycol monomethyl ether (34590-94-8) | |
| LD50 oral rat | 5.35 g/kg (Source: NLM_HSDB) |
| LD50 dermal rabbit | 9500 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 | : May cause an allergic skin reaction. |
| 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 | : May cause cancer. |
| Additional information | : Based on available data, the classification criteria are not met |
| Bis(2-ethylhexyl) adipate (103-23-1) | |
| IARC group | 3 - Not classifiable |
| (R)-p-mentha-1,8-diene; d-limonene (5989-27-5) | |
| IARC group | 3 - Not classifiable |
| Toluene (108-88-3) | |
| 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 |
| ethyl lactate; ethyl DL-lactate (97-64-3) | |
| STOT-single exposure | May cause respiratory irritation. |
| Toluene (108-88-3) | |
| 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 |
| Toluene (108-88-3) | |
| STOT-repeated exposure | May cause damage to organs through prolonged or repeated exposure. |
| Aspiration hazard | : Not classified |
| Additional information | : Based on available data, the classification criteria are not met |
| beta-Caryophyllene (87-44-5) | |
| Hydrocarbon | Yes |
| (R)-p-mentha-1,8-diene; d-limonene (5989-27-5) | |
| Hydrocarbon | Yes |
| Toluene (108-88-3) | |
| Hydrocarbon | Yes |

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

No additional information available

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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) : Not classified

| 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) |
| 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) |
| Linalool (78-70-6) | |
| EC50 96h - Algae [1] | 88.3 mg/l (Species: Desmodesmus subspicatus) |
| Vertenex (32210-23-4) | |
| LC50 - Fish [1] | 8.6 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static] Source: ECHA) |
| (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) |
| 1,2-Propanediol (57-55-6) | |
| LC50 - Fish [1] | 51600 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static] Source: IUCLID) |
| LC50 - Fish [2] | 41 – 47 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static] Source: EPA) |
| EC50 - Crustacea [1] | > 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static]) |
| EC50 96h - Algae [1] | 19000 mg/l (Species: Pseudokirchneriella subcapitata) |
| Toluene (108-88-3) | |
| LC50 - Fish [1] | 15.22 – 19.05 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA) |
| LC50 - Fish [2] | 12.6 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: EPA) |
| EC50 - Crustacea [1] | 5.46 – 9.83 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static]) |
| EC50 - Crustacea [2] | 11.5 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| EC50 72h - Algae [1] | 12.5 mg/l (Species: Pseudokirchneriella subcapitata [static]) |
| EC50 96h - Algae [1] | > 433 mg/l (Species: Pseudokirchneriella subcapitata) |

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| 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) |
| 12.2. Persistence and degradability | |
| TYPE 26 - ABS CC-16091 5% in DPG | |
| Persistence and degradability | Not established. |
| Bis(2-ethylhexyl) adipate (103-23-1) | |
| Persistence and degradability | Rapidly degradable |
| Cinnamic aldehyde (104-55-2) | |
| Persistence and degradability | Rapidly degradable |
| beta-Caryophyllene (87-44-5) | |
| Persistence and degradability | Rapidly degradable |
| Cinnamon leaf oil (8015-91-6) | |
| Persistence and degradability | Rapidly degradable |
| benzyl alcohol (100-51-6) | |
| Persistence and degradability | Rapidly degradable |
| Linalool (78-70-6) | |
| Persistence and degradability | Rapidly degradable |
| Vertenex (32210-23-4) | |
| Persistence and degradability | Rapidly degradable |
| (R)-p-mentha-1,8-diene; d-limonene (5989-27-5) | |
| Persistence and degradability | Rapidly degradable |
| 1,2-Propanediol (57-55-6) | |
| Persistence and degradability | Rapidly degradable |
| ethyl lactate; ethyl DL-lactate (97-64-3) | |
| Persistence and degradability | Rapidly degradable |
| Toluene (108-88-3) | |
| Persistence and degradability | Rapidly degradable |
| Dipropylene glycol monomethyl ether (34590-94-8) | |
| Persistence and degradability | Rapidly degradable |
| 12.3. Bioaccumulative potential | |
| TYPE 26 - ABS CC-16091 5% in DPG | |
| Bioaccumulative potential | Not established. |
| Bis(2-ethylhexyl) adipate (103-23-1) | |
| BCF - Fish [1] | (27 dimensionless) |
| Partition coefficient n-octanol/water (Log Pow) | 8.94 (at 25 °C) |

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| | |
|---|--|
| Cinnamic aldehyde (104-55-2) | |
| Partition coefficient n-octanol/water (Log Pow) | 2.1065 (at 25 °C) |
| beta-Caryophyllene (87-44-5) | |
| Partition coefficient n-octanol/water (Log Pow) | 6.23 (at 25 °C (at pH 7)) |
| benzyl alcohol (100-51-6) | |
| Partition coefficient n-octanol/water (Log Pow) | 1.05 |
| Vertenex (32210-23-4) | |
| Partition coefficient n-octanol/water (Log Pow) | 4.8 (at 25 °C) |
| (R)-p-mentha-1,8-diene; d-limonene (5989-27-5) | |
| Partition coefficient n-octanol/water (Log Pow) | 4.38 (at 37 °C (at pH 7.2)) |
| 1,2-Propanediol (57-55-6) | |
| BCF - Fish [1] | (1 dimensionless) |
| Partition coefficient n-octanol/water (Log Pow) | -1.07 (at 20.5 °C (at pH >=6.2-<=6.4)) |
| ethyl lactate; ethyl DL-lactate (97-64-3) | |
| Partition coefficient n-octanol/water (Log Pow) | 0.7 (at 25 °C (at pH >2-<8)) |
| Toluene (108-88-3) | |
| Partition coefficient n-octanol/water (Log Pow) | 2.73 (at 20 °C (at pH 7)) |
| Dipropylene glycol monomethyl ether (34590-94-8) | |
| Partition coefficient n-octanol/water (Log Pow) | 0.35 (at 25 °C (at pH 7)) |

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

Additional information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.
Ecological information : Avoid release to the environment.
HP Code : HP7 - "Carcinogenic:" waste which induces cancer or increases its incidence

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) | (R)-p-mentha-1,8-diene; d-limonene ; ethyl lactate; ethyl DL-lactate ; Toluene | 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) | TYPE 26 - ABS CC-16091 5% in DPG ; Cinnamic aldehyde ; beta-Caryophyllene ; Cinnamon leaf oil ; benzyl alcohol ; Linalool ; Vertenex ; (R)-p-mentha-1,8-diene; d-limonene ; ethyl lactate; ethyl DL-lactate ; Toluene | 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) | Bis(2-ethylhexyl) adipate ; Cinnamic aldehyde ; Cinnamon leaf oil ; (R)-p-mentha-1,8-diene; d-limonene | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1 |
| 40. | (R)-p-mentha-1,8-diene; d-limonene ; ethyl lactate; ethyl DL-lactate ; Toluene | 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. |
| 48. | Toluene | Toluene |

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 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)

| Name | CN designation | CAS-No. | CN code | Category, Subcategory | Threshold | Annex |
|---------|----------------|----------|------------|-----------------------|-----------|---------|
| Toluene | | 108-88-3 | 2902 30 00 | Category 3 | | Annex I |

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15.1.2. National regulations

France

| Occupational diseases | |
|-----------------------|---|
| Code | Description |
| RG 4 BIS | Gastrointestinal disorders caused by benzene, toluene, xylenes and all products containing them |
| 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 3, Highly hazardous to water (Classification according to AwSV, Annex 1).
List of sensitizing substances (TRGS 907) : Contains sensitizing substances according TRGS 907.
Major Accidents Ordinance (12. BImSchV) : Is not subject to the Major Accidents Ordinance (12. BImSchV)

Netherlands

ABM category : A(2) - toxic for aquatic organisms, may have longterm hazardous effects in aquatic environment
SZW-lijst van kankerverwekkende stoffen : Cinnamon leaf oil is listed
SZW-lijst van mutagene stoffen : Cinnamon leaf 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 : Toluene is 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
The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

Switzerland

Chemicals Ordinance (ChemO, SR 813.11) : Group 1

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. 3 (Dermal) | Acute toxicity (dermal), Category 3 |
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal), Category 4 |
| Acute Tox. 4 (Inhalation) | Acute toxicity (inhal.), Category 4 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Aquatic Acute 1 | Hazardous to the aquatic environment – Acute Hazard, Category 1 |

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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 |
| Carc. 1B | Carcinogenicity, Category 1B |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| 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. |
| H311 | Toxic in contact with skin. |
| H312 | Harmful in contact with skin. |
| 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. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H341 | Suspected of causing genetic defects. |
| H350 | May cause cancer. |
| H361d | Suspected of damaging the unborn child. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H412 | Harmful to aquatic life with long lasting effects. |
| Muta. 2 | Germ cell mutagenicity, Category 2 |
| Repr. 2 | Reproductive toxicity, Category 2 |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| Skin Sens. 1 | Skin sensitisation, Category 1 |
| Skin Sens. 1A | Skin sensitisation, category 1A |
| Skin Sens. 1B | Skin sensitisation, category 1B |
| STOT RE 2 | Specific target organ toxicity – Repeated exposure, Category 2 |
| STOT SE 3 | Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation |

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.