

BUTTERNUT PUMPKIN CC-13099

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 9/18/2023



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

1.1. Product identifier

Product form : Mixture
Trade name : BUTTERNUT PUMPKIN CC-13099
UFI : AXUC-U2FJ-Y001-17JP
Product code : CC-13099
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 : Industrial use, Professional 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

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

1.4. Emergency telephone number

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Skin corrosion/irritation, Category 2 H315
Serious eye damage/eye irritation, Category 2 H319
Skin sensitisation, Category 1 H317
Hazardous to the aquatic environment – Chronic Hazard, Category 3 H412
Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

May cause cancer. Suspected of causing genetic defects. Causes skin irritation. Causes serious eye irritation. 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

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| | |
|--------------------------------|--|
| Contains | : Cinnamic aldehyde; COUMARIN; beta-Caryophyllene; Eugenol; Cinnamic alcohol; Orange oil ; Methyl cinnamate; Calamus oil; 1,2-Cyclopentanedione, 3-methyl-; Cassia oil; Carrot seed oil |
| Hazard statements (CLP) | : H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H412 - Harmful to aquatic life with long lasting effects. |
| Precautionary statements (CLP) | : P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P264 - Wash hands, forearms and face thoroughly after handling. P272 - Contaminated work clothing should not be allowed out of the workplace. P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P302+P352 - IF ON SKIN: Wash with plenty of water. |
| Extra phrases | : For professional users only. |

2.3. Other hazards

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

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

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--|--|-------------------|--|
| Cinnamic aldehyde | CAS-No.: 104-55-2 EC-No.: 203-213-9 REACH-no: 01-2119935242-45 | 5.335 – 10.675 | Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412 |
| Ethyl vanillin | CAS-No.: 121-32-4 EC-No.: 204-464-7 REACH-no: 01-211958961-24 | 1.8 – 3.5 | Eye Irrit. 2, H319 |
| COUMARIN | CAS-No.: 91-64-5 EC-No.: 202-086-7 REACH-no: 01-2119943756-26 | 1.20007 – 2.45014 | Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Skin Sens. 1, H317 Aquatic Chronic 2, H411 |
| Cinnamyl acetate | CAS-No.: 103-54-8 EC-No.: 203-121-9 | 0.7 – 1.4 | Eye Irrit. 2, H319 |
| beta-Caryophyllene | CAS-No.: 87-44-5 EC-No.: 201-746-1 REACH-no: 01-2120745237-53 | 0.385 – 1.05 | Skin Sens. 1B, H317 Asp. Tox. 1, H304 |
| Butylated hydroxytoluene (BHT) crystals substance with national workplace exposure limit(s) (AT, BE, BG, DE, DK, ES, FI, FR, GB, GR, HR, IE, PT, SI, CH) | CAS-No.: 128-37-0 EC-No.: 204-881-4 REACH-no: 01-2119480433-40 | 0.5 – 1.05 | Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |

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| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|--|-------------------|--|
| Eugenol | CAS-No.: 97-53-0 EC-No.: 202-589-1 REACH-no: 01-2119971802-33 | 0.175 – 0.7 | Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Skin Sens. 1B, H317 |
| Orange oil | CAS-No.: 8008-57-9 EC-No.: 232-433-8 REACH-no: 01-2119493353-35 | 0.4 – 0.7 | Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 2, H411 |
| Cinnamic alcohol | CAS-No.: 104-54-1 EC-No.: 203-212-3 REACH-no: 01-2119934496-29 | 0.20007 – 0.35014 | Acute Tox. 4 (Oral), H302 Skin Sens. 1B, H317 |
| Cedarwood oil, Texas | CAS-No.: 68990-83-0 EC-No.: 294-461-7 | 0.2 – 0.35 | Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| Benzaldehyde substance with national workplace exposure limit(s) (BG, FI, HU, LT, LV, PL) | CAS-No.: 100-52-7 EC-No.: 202-860-4 EC Index-No.: 605-012-00-5 REACH-no: 01-2119455540-44 | 0.2 – 0.35 | Acute Tox. 4 (Oral), H302 |
| Methyl cinnamate | CAS-No.: 103-26-4 EC-No.: 203-093-8 REACH-no: 01-2119979458-16 | 0.1 – 0.2 | Skin Sens. 1B, H317 |
| Calamus oil (Acorus calamus L.) | CAS-No.: 8015-79-0 EC-No.: 283-869-0 | 0.1 – 0.2 | Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317 |
| 1,2-Cyclopentanedione, 3-methyl- | CAS-No.: 765-70-8 EC-No.: 212-154-8 | 0.1 – 0.15 | Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317 |
| Cassia oil | CAS-No.: 8007-80-5 EC-No.: 284-635-0;616-916-4 | 0.1 – 0.1 | Acute Tox. 3 (Dermal), H311 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412 |
| Carrot seed oil | CAS-No.: 8015-88-1 EC-No.: 284-545-1;616-965-1 | 0.1 – 0.1 | Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 |
| .alpha.-Pinene substance with national workplace exposure limit(s) (BE, EE, ES, LT, PT, SE, NO) | CAS-No.: 80-56-8 EC-No.: 201-291-9 | 0.01 – 0.0515 | Flam. Liq. 3, H226 |
| .beta.-Pinene substance with national workplace exposure limit(s) (BE, EE, ES, LT, PT, SE, NO) | CAS-No.: 127-91-3 EC-No.: 204-872-5 | 0.01 – 0.0515 | Flam. Liq. 3, H226 |

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| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|----------------|---|
| 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 – 0.029 | Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 3, H412 |
| p-Cymene substance with national workplace exposure limit(s) (DK, EE, LT, LV, SE) | CAS-No.: 99-87-6 EC-No.: 202-796-7 EC Index-No.: 601-094-00-1 | 0.001 – 0.0075 | Flam. Liq. 3, H226 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Inhalation:dust,mist), H331 Repr. 2, H361 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 |

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 | : If you feel unwell, seek medical advice (show the label where possible). |
| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. Allow the victim to rest. |
| First-aid measures after skin contact | : If skin irritation occurs: Get medical advice/attention. Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention. |
| First-aid measures after eye contact | : Obtain medical attention if pain, blinking or redness persists. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |
| First-aid measures after ingestion | : Obtain emergency medical attention. Call a poison center or a doctor if you feel unwell. |

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

| | |
|-------------------------------------|--|
| Symptoms/effects | : Not expected to present a significant hazard under anticipated conditions of normal use. |
| Symptoms/effects after skin contact | : Irritation. May cause an allergic skin reaction. |
| Symptoms/effects after eye contact | : Eye irritation. |

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for firefighters

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

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

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

6.1.2. For emergency responders

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

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Store away from other materials.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Provide good ventilation in process area to prevent formation of vapour. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapours/spray.

Hygiene measures : Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

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

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

Storage temperature : 25 °C

Storage area : Store in a well-ventilated place. Store away from heat.

Special rules on packaging : Store in a closed container.

Packaging materials : Do not store in corrodable metal.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

| d-Limonene (5989-27-5) | |
|--|-----------------------|
| Finland - Occupational Exposure Limits | |
| HTP (OEL TWA) [1] | 140 mg/m ³ |

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| d-Limonene (5989-27-5) | |
|--|---|
| HTP (OEL TWA) [2] | 25 ppm |
| HTP (OEL STEL) | 280 mg/m ³ |
| HTP (OEL STEL) [ppm] | 50 ppm |
| Germany - Occupational Exposure Limits (TRGS 900) | |
| AGW (OEL TWA) [1] | 28 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) |
| AGW (OEL TWA) [2] | 5 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) |
| Chemical category | Skin notation, Skin sensitization |
| Slovenia - Occupational Exposure Limits | |
| OEL TWA | 28 mg/m ³ |
| OEL TWA [ppm] | 5 ppm |
| OEL STEL | 112 mg/m ³ |
| OEL STEL [ppm] | 20 ppm |
| OEL chemical category | Potential for cutaneous absorption |
| Spain - Occupational Exposure Limits | |
| VLA-ED (OEL TWA) [1] | 168 mg/m ³ |
| VLA-ED (OEL TWA) [2] | 30 ppm |
| OEL chemical category | Sensitizer, skin - potential for cutaneous absorption |
| Norway - Occupational Exposure Limits | |
| Grønseverdi (OEL TWA) [1] | 140 mg/m ³ |
| Grønseverdi (OEL TWA) [2] | 25 ppm |
| Korttidsverdi (OEL STEL) | 175 mg/m ³ (value calculated) |
| Korttidsverdi (OEL STEL) [ppm] | 37.5 ppm (value calculated) |
| OEL chemical category | Allergenic substance |
| Switzerland - Occupational Exposure Limits | |
| MAK (OEL TWA) [1] | 40 mg/m ³ |
| MAK (OEL TWA) [2] | 7 ppm |
| KZGW (OEL STEL) | 80 mg/m ³ |
| KZGW (OEL STEL) [ppm] | 14 ppm |
| OEL chemical category | Sensitizer |
| .alpha.-Pinene (80-56-8) | |
| Belgium - Occupational Exposure Limits | |
| OEL TWA [ppm] | 20 ppm |
| Estonia - Occupational Exposure Limits | |
| OEL TWA | 150 mg/m ³ (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect) |
| OEL TWA [ppm] | 25 ppm (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect) |

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| .alpha.-Pinene (80-56-8) | |
|---|---|
| OEL STEL | 300 mg/m ³ (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect) |
| OEL STEL [ppm] | 50 ppm (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect) |
| Lithuania - Occupational Exposure Limits | |
| IPRV (OEL TWA) | 150 mg/m ³ |
| IPRV (OEL TWA) [ppm] | 25 ppm |
| TPRV (OEL STEL) | 300 mg/m ³ |
| TPRV (OEL STEL) [ppm] | 50 ppm |
| Portugal - Occupational Exposure Limits | |
| OEL TWA [ppm] | 20 ppm (Turpentine and selected Monoterpenes) |
| OEL chemical category | Sensitizer dermal, A4 - Not Classifiable as a Human Carcinogen |
| Spain - Occupational Exposure Limits | |
| VLA-ED (OEL TWA) [1] | 113 mg/m ³ |
| VLA-ED (OEL TWA) [2] | 20 ppm |
| OEL chemical category | Sensitizer |
| Sweden - Occupational Exposure Limits | |
| NGV (OEL TWA) | 150 mg/m ³ |
| NGV (OEL TWA) [ppm] | 25 ppm |
| KTV (OEL STEL) | 300 mg/m ³ |
| KTV (OEL STEL) [ppm] | 50 ppm |
| OEL chemical category | Sensitizer |
| Norway - Occupational Exposure Limits | |
| Grenseverdi (OEL TWA) [1] | 140 mg/m ³ |
| Grenseverdi (OEL TWA) [2] | 25 ppm |
| Korttidsverdi (OEL STEL) | 175 mg/m ³ (value calculated) |
| Korttidsverdi (OEL STEL) [ppm] | 37.5 ppm (value calculated) |
| OEL chemical category | Skin notation |
| USA - ACGIH - Occupational Exposure Limits | |
| ACGIH OEL TWA [ppm] | 20 ppm (Turpentine and selected Monoterpenes) |
| ACGIH chemical category | Not Classifiable as a Human Carcinogen, dermal sensitizer |
| .beta.-Pinene (127-91-3) | |
| Belgium - Occupational Exposure Limits | |
| OEL TWA [ppm] | 20 ppm |
| Estonia - Occupational Exposure Limits | |
| OEL TWA | 150 mg/m ³ (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect) |
| OEL TWA [ppm] | 25 ppm (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect) |

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| .beta.-Pinene (127-91-3) | |
|---|---|
| OEL STEL | 300 mg/m ³ (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect) |
| OEL STEL [ppm] | 50 ppm (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect) |
| Lithuania - Occupational Exposure Limits | |
| IPRV (OEL TWA) | 150 mg/m ³ |
| IPRV (OEL TWA) [ppm] | 25 ppm |
| TPRV (OEL STEL) | 300 mg/m ³ |
| TPRV (OEL STEL) [ppm] | 50 ppm |
| Portugal - Occupational Exposure Limits | |
| OEL TWA [ppm] | 20 ppm (Turpentine and selected Monoterpenes) |
| OEL chemical category | Sensitizer dermal, A4 - Not Classifiable as a Human Carcinogen |
| Spain - Occupational Exposure Limits | |
| VLA-ED (OEL TWA) [1] | 113 mg/m ³ |
| VLA-ED (OEL TWA) [2] | 20 ppm |
| OEL chemical category | Sensitizer |
| Sweden - Occupational Exposure Limits | |
| NGV (OEL TWA) | 150 mg/m ³ |
| NGV (OEL TWA) [ppm] | 25 ppm |
| KTV (OEL STEL) | 300 mg/m ³ |
| KTV (OEL STEL) [ppm] | 50 ppm |
| OEL chemical category | Sensitizer |
| Norway - Occupational Exposure Limits | |
| Grenseverdi (OEL TWA) [1] | 140 mg/m ³ |
| Grenseverdi (OEL TWA) [2] | 25 ppm |
| Korttidsverdi (OEL STEL) | 175 mg/m ³ (value calculated) |
| Korttidsverdi (OEL STEL) [ppm] | 37.5 ppm (value calculated) |
| USA - ACGIH - Occupational Exposure Limits | |
| ACGIH OEL TWA [ppm] | 20 ppm (Turpentine and selected Monoterpenes) |
| ACGIH chemical category | Not Classifiable as a Human Carcinogen, dermal sensitizer |
| Butylated hydroxytoluene (BHT) crystals (128-37-0) | |
| Austria - Occupational Exposure Limits | |
| MAK (OEL TWA) | 10 mg/m ³ |
| Belgium - Occupational Exposure Limits | |
| OEL TWA | 2 mg/m ³ (aerosol and vapor) |
| Bulgaria - Occupational Exposure Limits | |
| OEL TWA | 10 mg/m ³ |
| OEL STEL | 50 mg/m ³ |

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| Butylated hydroxytoluene (BHT) crystals (128-37-0) | |
|---|--|
| Croatia - Occupational Exposure Limits | |
| GVI (OEL TWA) [1] | 10 mg/m ³ |
| Denmark - Occupational Exposure Limits | |
| OEL TWA [1] | 10 mg/m ³ |
| OEL STEL | 20 mg/m ³ |
| Finland - Occupational Exposure Limits | |
| HTP (OEL TWA) [1] | 10 mg/m ³ |
| HTP (OEL STEL) | 20 mg/m ³ |
| France - Occupational Exposure Limits | |
| VME (OEL TWA) | 10 mg/m ³ |
| Germany - Occupational Exposure Limits (TRGS 900) | |
| AGW (OEL TWA) [1] | 10 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed-inhalable fraction) |
| Greece - Occupational Exposure Limits | |
| OEL TWA | 10 mg/m ³ |
| Ireland - Occupational Exposure Limits | |
| OEL TWA [1] | 2 mg/m ³ |
| OEL STEL | 6 mg/m ³ (calculated) |
| Portugal - Occupational Exposure Limits | |
| OEL TWA | 2 mg/m ³ (inhalable fraction; vapor) |
| OEL chemical category | A4 - Not Classifiable as a Human Carcinogen |
| Slovenia - Occupational Exposure Limits | |
| OEL TWA | 10 mg/m ³ (inhalable fraction) |
| OEL STEL | 40 mg/m ³ (inhalable fraction) |
| Spain - Occupational Exposure Limits | |
| VLA-ED (OEL TWA) [1] | 10 mg/m ³ |
| United Kingdom - Occupational Exposure Limits | |
| WEL TWA (OEL TWA) [1] | 10 mg/m ³ |
| WEL STEL (OEL STEL) | 30 mg/m ³ (calculated) |
| Switzerland - Occupational Exposure Limits | |
| MAK (OEL TWA) [1] | 10 mg/m ³ (no elevated carcinogenic risk by keeping the MAK-value-aerosol, inhalable dust, vapour) |
| KZGW (OEL STEL) | 40 mg/m ³ (aerosol, inhalable dust, vapour) |
| OEL chemical category | Category C1B carcinogen carcinogenic with threshold value |
| USA - ACGIH - Occupational Exposure Limits | |
| ACGIH OEL TWA | 2 mg/m ³ (inhalable fraction and vapor) |
| ACGIH chemical category | Not Classifiable as a Human Carcinogen |

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| Benzaldehyde (100-52-7) | |
|---|---|
| Bulgaria - Occupational Exposure Limits | |
| OEL TWA | 5 mg/m ³ |
| Finland - Occupational Exposure Limits | |
| HTP (OEL TWA) [1] | 4.4 mg/m ³ |
| HTP (OEL TWA) [2] | 1 ppm |
| HTP (OEL C) | 17.4 mg/m ³ |
| HTP (OEL C) [ppm] | 4 ppm |
| Hungary - Occupational Exposure Limits | |
| AK (OEL TWA) | 5 mg/m ³ |
| CK (OEL STEL) | 10 mg/m ³ |
| Latvia - Occupational Exposure Limits | |
| OEL TWA | 5 mg/m ³ |
| Lithuania - Occupational Exposure Limits | |
| IPRV (OEL TWA) | 5 mg/m ³ |
| Poland - Occupational Exposure Limits | |
| NDS (OEL TWA) | 10 mg/m ³ |
| NDSch (OEL STEL) | 40 mg/m ³ |
| p-Cymene (99-87-6) | |
| Denmark - Occupational Exposure Limits | |
| OEL TWA [1] | 135 mg/m ³ (Methylisopropylbenzenes) |
| OEL TWA [2] | 25 ppm (Methylisopropylbenzenes) |
| OEL STEL | 270 mg/m ³ (Methylisopropylbenzenes) |
| OEL STEL [ppm] | 50 ppm (Methylisopropylbenzenes) |
| Estonia - Occupational Exposure Limits | |
| OEL TWA | 140 mg/m ³ |
| OEL TWA [ppm] | 25 ppm |
| OEL STEL | 190 mg/m ³ |
| OEL STEL [ppm] | 35 ppm |
| Latvia - Occupational Exposure Limits | |
| OEL TWA | 10 mg/m ³ (Cymene (2, 3, 4-isomers mixture)) |
| Lithuania - Occupational Exposure Limits | |
| IPRV (OEL TWA) | 140 mg/m ³ |
| IPRV (OEL TWA) [ppm] | 25 ppm |
| TPRV (OEL STEL) | 190 mg/m ³ |
| TPRV (OEL STEL) [ppm] | 35 ppm |
| Sweden - Occupational Exposure Limits | |
| NGV (OEL TWA) | 140 mg/m ³ |
| NGV (OEL TWA) [ppm] | 25 ppm |
| KTV (OEL STEL) | 190 mg/m ³ |

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p-Cymene (99-87-6)

KTV (OEL STEL) [ppm]

35 ppm

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Chemical goggles or safety glasses. Safety glasses

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Wear protective gloves.

8.2.2.3. Respiratory protection

Respiratory protection:

Wear appropriate mask

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

: Liquid

Colour

: light yellow. amber. Conforms to standard.

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| | |
|---|-----------------------------------|
| Odour | : characteristic. characteristic. |
| Odour threshold | : Not available |
| Melting point | : Not applicable |
| Freezing point | : Not available |
| Boiling point | : Not available |
| Flammability | : Not applicable |
| Explosive limits | : Not available |
| Lower explosion limit | : Not available |
| Upper explosion limit | : Not available |
| Flash point | : 87 °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 | : ≥ 0.97 |
| Relative vapour density at 20°C | : Not available |
| Particle characteristics | : Not applicable |

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Carbon dioxide.

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 |

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| Cinnamic aldehyde (104-55-2) | |
|---|----------------------------------|
| LD50 oral rat | 2220 mg/kg (Source: NLM_CIP) |
| LD50 oral | 2200 mg/kg bodyweight |
| LD50 dermal rabbit | 1260 mg/kg (Source: EPA_HPVS) |
| LD50 dermal | 1100 mg/kg bodyweight |
| Ethyl vanillin (121-32-4) | |
| LD50 oral rat | 1590 mg/kg (Source: NLM_CIP) |
| LD50 oral | 3000 mg/kg bodyweight |
| LD50 dermal rat | > 2000 mg/kg (Source: ECHA_API) |
| COUMARIN (91-64-5) | |
| LD50 oral rat | > 5000 mg/kg (Source: JAPAN_GHS) |
| LD50 oral | 290 mg/kg bodyweight |
| LD50 dermal rat | 293 mg/kg (Source: ECHA_API) |
| Eugenol (97-53-0) | |
| LD50 oral rat | 1930 mg/kg (Source: NZ_CCID) |
| LD50 oral | 2500 mg/kg bodyweight |
| d-Limonene (5989-27-5) | |
| LD50 oral rat | 4400 mg/kg (Source: CHEMVIEW) |
| LD50 dermal rabbit | > 5 g/kg (Source: CHEMVIEW) |
| .alpha.-Pinene (80-56-8) | |
| LD50 oral rat | 3700 mg/kg (Source: NLM_CIP) |
| LD50 oral | 500 mg/kg bodyweight |
| LD50 dermal rat | > 5000 mg/kg (Source: CHEMVIEW) |
| .beta.-Pinene (127-91-3) | |
| LD50 oral rat | > 5000 mg/kg (Source: EPA_HPVS) |
| LD50 dermal rabbit | > 5000 mg/kg (Source: CHEMVIEW) |
| Cinnamic alcohol (104-54-1) | |
| LD50 oral | 2000 mg/kg bodyweight |
| LD50 dermal rabbit | > 5000 mg/kg (Source: ECHA_API) |
| Cinnamyl acetate (103-54-8) | |
| LD50 oral rat | 3300 mg/kg (Source: NLM_CIP) |
| LD50 oral | 3330 mg/kg bodyweight |
| LD50 dermal rabbit | > 5000 mg/kg (Source: ECHA_API) |
| Butylated hydroxytoluene (BHT) crystals (128-37-0) | |
| LD50 oral rat | > 2930 mg/kg (Source: EPA_HPVS) |
| LD50 dermal rat | > 2000 mg/kg (Source: JAPAN_GHS) |
| Orange oil (8008-57-9) | |
| LD50 oral rat | 4400 mg/kg (Source: NZ_CCID) |

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| Orange oil (8008-57-9) | |
|---|--|
| LD50 dermal rabbit | > 5000 mg/kg (Source: CHEMVIEW) |
| Benzaldehyde (100-52-7) | |
| LD50 oral rat | 1292 mg/kg (Source: JAPAN_GHS) |
| LD50 dermal rabbit | > 1250 mg/kg (Source: JAPAN_GHS) |
| Methyl cinnamate (103-26-4) | |
| LD50 oral rat | 2610 mg/kg (Source: NLM_CIP) |
| LD50 oral | 2610 mg/kg bodyweight |
| LD50 dermal rabbit | > 5000 mg/kg (Source: ECHA_API) |
| Calamus oil (Acorus calamus L.) (8015-79-0) | |
| LD50 oral rat | 777 mg/kg (Source: NLM_CIP) |
| LD50 oral | 780 mg/kg bodyweight |
| p-Cymene (99-87-6) | |
| LD50 oral rat | 4750 mg/kg (Source: NLM_CIP) |
| LD50 oral | 4750 mg/kg bodyweight |
| LD50 dermal rabbit | > 5000 mg/kg (Source: CHEMVIEW) |
| LC50 Inhalation - Rat | > 9.7 mg/l (Exposure time: 5 h Source: EU_CLH) |
| LC50 Inhalation - Rat (Vapours) | 9.7 mg/l/4h |
| 1,2-Cyclopentanedione, 3-methyl- (765-70-8) | |
| LD50 oral | 1067 mg/kg bodyweight |
| Cassia oil (8007-80-5) | |
| LD50 oral rat | 2800 mg/kg (Source: NLM_CIP) |
| LD50 dermal rabbit | 320 mg/kg (Source: NZ_CCID) |
| Skin corrosion/irritation | : Causes skin irritation. |
| Serious eye damage/irritation | : Causes serious eye irritation. |
| Respiratory or skin sensitisation | : May cause an allergic skin reaction. |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| COUMARIN (91-64-5) | |
| IARC group | 3 - Not classifiable |
| Eugenol (97-53-0) | |
| IARC group | 3 - Not classifiable |
| d-Limonene (5989-27-5) | |
| IARC group | 3 - Not classifiable |
| Butylated hydroxytoluene (BHT) crystals (128-37-0) | |
| IARC group | 3 - Not classifiable |

| | |
|------------------------|------------------|
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : Not classified |
| STOT-repeated exposure | : Not classified |
| Aspiration hazard | : Not classified |

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Orange oil (8008-57-9)

| | |
|-------------|-----|
| Hydrocarbon | Yes |
|-------------|-----|

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

No additional information available

11.2.2. Other information

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

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : 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.

Ethyl vanillin (121-32-4)

| | |
|-----------------|--|
| LC50 - Fish [1] | 81.4 – 94.3 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA) |
|-----------------|--|

Eugenol (97-53-0)

| | |
|-----------------|---|
| LC50 - Fish [1] | 13 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static] Source: ECHA) |
|-----------------|---|

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

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

| | |
|-----------------|--|
| LC50 - Fish [1] | 0.28 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: IUCLID) |
|-----------------|--|

| | |
|----------------------|--|
| EC50 - Crustacea [1] | 41 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
|----------------------|--|

Butylated hydroxytoluene (BHT) crystals (128-37-0)

| | |
|----------------------|---|
| EC50 72h - Algae [1] | 6 mg/l (Species: Pseudokirchneriella subcapitata) |
|----------------------|---|

| | |
|----------------------|--|
| EC50 72h - Algae [2] | > 0.42 mg/l (Species: Desmodesmus subspicatus) |
|----------------------|--|

Benzaldehyde (100-52-7)

| | |
|-----------------|--|
| LC50 - Fish [1] | 10.6 – 11.8 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through] Source: EPA) |
|-----------------|--|

| | |
|-----------------|---|
| LC50 - Fish [2] | 12.69 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static] Source: IUCLID) |
|-----------------|---|

Methyl cinnamate (103-26-4)

| | |
|-----------------|--|
| LC50 - Fish [1] | 2.76 mg/l (Exposure time: 96 h - Species: Danio rerio [static] Source: ECHA) |
|-----------------|--|

12.2. Persistence and degradability

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

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| | |
|---|-------------------------------------|
| Cedarwood oil, Texas (68990-83-0) | |
| Persistence and degradability | Not established. |
| Methyl cinnamate (103-26-4) | |
| Persistence and degradability | Not established. |
| 12.3. Bioaccumulative potential | |
| BUTTERNUT PUMPKIN CC-13099 | |
| Bioaccumulative potential | Not established. |
| Cinnamic aldehyde (104-55-2) | |
| Partition coefficient n-octanol/water (Log Pow) | 2.1065 (at 25 °C) |
| Ethyl vanillin (121-32-4) | |
| Partition coefficient n-octanol/water (Log Pow) | 1.61 (at 25 °C) |
| beta-Caryophyllene (87-44-5) | |
| Partition coefficient n-octanol/water (Log Pow) | 6.23 (at 25 °C (at pH 7)) |
| Eugenol (97-53-0) | |
| Partition coefficient n-octanol/water (Log Pow) | 1.83 (at 30 °C (at pH 5.5)) |
| d-Limonene (5989-27-5) | |
| Partition coefficient n-octanol/water (Log Pow) | 4.38 (at 37 °C (at pH 7.2)) |
| .alpha.-Pinene (80-56-8) | |
| Partition coefficient n-octanol/water (Log Pow) | 4.1 |
| Cinnamic alcohol (104-54-1) | |
| Partition coefficient n-octanol/water (Log Pow) | 1.636 (at 27 °C (at pH 3.52)) |
| Cinnamyl acetate (103-54-8) | |
| Partition coefficient n-octanol/water (Log Pow) | 2.7 (at 35 °C (at pH 7)) |
| Butylated hydroxytoluene (BHT) crystals (128-37-0) | |
| BCF - Fish [1] | 230 – 2500 |
| Partition coefficient n-octanol/water (Log Pow) | 5.1 |
| Cedarwood oil, Texas (68990-83-0) | |
| Bioaccumulative potential | Not established. |
| Benzaldehyde (100-52-7) | |
| BCF - Fish [1] | (no significant bioaccumulation) |
| Partition coefficient n-octanol/water (Log Pow) | 1.4 (at 25 °C) |
| Methyl cinnamate (103-26-4) | |
| Partition coefficient n-octanol/water (Log Pow) | 2.68 (at 25 °C (at pH >4.73-<7.06)) |
| Bioaccumulative potential | Not established. |
| p-Cymene (99-87-6) | |
| Partition coefficient n-octanol/water (Log Pow) | 4.8 (at 20 °C (at pH 7)) |
| Partition coefficient n-octanol/water (Log Kow) | 0 |

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12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

Additional information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

| | |
|--|---|
| Waste treatment methods | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| Product/Packaging disposal recommendations | : Dispose in a safe manner in accordance with local/national regulations. |
| Ecology - waste materials | : Avoid release to the environment. |
| HP Code | : HP3 - "Flammable:" <ul style="list-style-type: none">– flammable liquid waste: liquid waste having a flash point below 60 °C or waste gas oil, diesel and light heating oils having a flash point > 55 °C and ≤ 75 °C;– flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air;– flammable solid waste: solid waste which is readily combustible or may cause or contribute to fire through friction;– flammable gaseous waste: gaseous waste which is flammable in air at 20 °C and a standard pressure of 101.3 kPa;– water reactive waste: waste which, in contact with water, emits flammable gases in dangerous quantities;– other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste. HP13 - "Sensitising:" waste which contains one or more substances known to cause sensitising effects to the skin or the respiratory organs. HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment |

SECTION 14: Transport information

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

| ADR | IMDG | IATA | ADN | RID |
|---|----------------|----------------|----------------|----------------|
| 14.1. UN number or ID number | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.2. UN proper shipping name | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.3. Transport hazard class(es) | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.4. Packing group | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.5. Environmental hazards | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |

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| ADR | IMDG | IATA | ADN | RID |
|--|------|------|-----|-----|
| 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) | d-Limonene ; .alpha.-Pinene ; .beta.-Pinene ; Orange oil ; p-Cymene ; Carrot seed oil | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F |
| 3(b) | BUTTERNUT PUMPKIN CC-13099 ; Cinnamic aldehyde ; Eugenol ; d-Limonene ; Cinnamyl acetate ; Orange oil ; Cedarwood oil, Texas ; Benzaldehyde ; Calamus oil (Acorus calamus L.) ; p-Cymene ; Cassia oil ; Carrot seed oil | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 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) | BUTTERNUT PUMPKIN CC-13099 ; Cinnamic aldehyde ; d-Limonene ; Orange oil ; Cedarwood oil, Texas ; p-Cymene ; Cassia oil ; Carrot seed oil | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1 |

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| EU restriction list (REACH Annex XVII) | | |
|--|---|--|
| Reference code | Applicable on | Entry title or description |
| 40. | d-Limonene ; .alpha.-Pinene ; .beta.-Pinene ; Orange oil ; p-Cymene ; Carrot seed oil | 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)

Explosives Precursors Regulation (2019/1148)

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

Drug Precursors Regulation (273/2004)

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

15.1.2. National regulations

France

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

Germany

Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG).
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).
Water hazard class (WGK) : WGK 2, Significantly hazardous to water (Classification according to AwSV, Annex 1).
List of sensitizing substances (TRGS 907) : Contains sensitizing substances according TRGS 907.
Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

ABM category : A(3) - hazardous for aquatic organisms, may have longterm hazardous effects in aquatic environment
SZW-lijst van kankerverwekkende stoffen : Orange oil ,Cedarwood oil, Texas,Calamus oil,Cassia oil,Carrot seed oil are listed
SZW-lijst van mutagene stoffen : Orange oil ,Calamus oil,Cassia oil,Carrot seed oil are listed
SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : None of the components are listed
SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed

Denmark

Class for fire hazard : Class III-1

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| | |
|-----------------------------|---|
| Store unit | : 50 liter |
| Classification remarks | : Flammable according to the Danish Ministry of Justice; Emergency management guidelines for the storage of flammable liquids must be followed |
| Danish National Regulations | : Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with the product |

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

| Abbreviations and acronyms: | |
|-----------------------------|---|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute Toxicity Estimate |
| BLV | Biological limit value |
| CAS-No. | Chemical Abstract Service number |
| CLP | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 |
| DMEL | Derived Minimal Effect level |
| DNEL | Derived-No Effect Level |
| EC50 | Median effective concentration |
| EC-No. | European Community number |
| EN | European Standard |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LC50 | Median lethal concentration |
| LD50 | Median lethal dose |
| LOAEL | Lowest Observed Adverse Effect Level |
| NOAEC | No-Observed Adverse Effect Concentration |
| NOAEL | No-Observed Adverse Effect Level |
| NOEC | No-Observed Effect Concentration |
| OEL | Occupational Exposure Limit |
| PBT | Persistent Bioaccumulative Toxic |
| PNEC | Predicted No-Effect Concentration |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS | Safety Data Sheet |
| vPvB | Very Persistent and Very Bioaccumulative |
| WGK | Water Hazard Class |

Other information : None.

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| Full text of H- and EUH-statements: | |
|-------------------------------------|---|
| Acute Tox. 3 (Dermal) | Acute toxicity (dermal), Category 3 |
| Acute Tox. 3 (Inhalation) | Acute toxicity (inhal.), Category 3 |
| Acute Tox. 3 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 3 |
| Acute Tox. 3 (Oral) | Acute toxicity (oral), Category 3 |
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal), 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 Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Flam. Liq. 3 | Flammable liquids, Category 3 |
| H226 | Flammable liquid and vapour. |
| H301 | Toxic if swallowed. |
| 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. |
| H319 | Causes serious eye irritation. |
| H331 | Toxic if inhaled. |
| H361 | Suspected of damaging fertility or the unborn child. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| Repr. 2 | Reproductive toxicity, Category 2 |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| Skin Sens. 1 | Skin sensitisation, Category 1 |
| Skin Sens. 1B | Skin sensitisation, category 1B |

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.