

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

#### 1.1. Product identifier

Product form	: Mixture
Product name	: MULLED WINE CC-16291 :
UFI	: TTWP-TCA8-000F-JWFE
Product code	: CC-16291
Type of product	: Perfumes, fragrances
Product group	: Trade product

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

##### 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

#### 1.3. Details of the supplier of the safety data sheet

Candle Craft  
Weiherrwiese 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
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### 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
Reproductive toxicity, Category 2	H361
Hazardous to the aquatic environment – Chronic Hazard, Category 2	H411

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

##### Adverse physicochemical, human health and environmental effects

Suspected of damaging fertility or the unborn child. Causes skin irritation. Causes serious eye irritation. Toxic 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)



Signal word (CLP)

: Warning

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Contains	: Linalool; Vertenex; Helional; Hexyl salicylate; beta-Caryophyllene; Eugenol; Cinnamic aldehyde; Linalyl acetate; alpha-Methylcinnamic aldehyde; Amyl cinnamic aldehyde; Triplal (Vertocitral); Hexyl cinnamic aldehyde; Orange oil ; Clove Leaf Oil ; Citral; Lemon oil ; 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone; Cornmint oil (redist); Ginger oil; UNDECYLENAL
Hazard statements (CLP)	: H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H361 - Suspected of damaging fertility or the unborn child. H411 - Toxic to aquatic life with long lasting effects.
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. 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.

### 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

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Verdoux	CAS-No.: 88-41-5 EC-No.: 201-828-7 REACH-no: 01-2119970713-33	3.8 – 7.5	Aquatic Chronic 2, H411
2(3H)-Furanone, 5-heptyldihydro-	CAS-No.: 104-67-6 EC-No.: 203-225-4 REACH-no: 01-2119959333-34	2.5 – 5	Aquatic Chronic 3, H412
Eugenol	CAS-No.: 97-53-0 EC-No.: 202-589-1 REACH-no: 01-2119971802-33	1.775 – 4.25	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Skin Sens. 1B, H317
Linalool	CAS-No.: 78-70-6 EC-No.: 201-134-4 EC Index-No.: 603-235-00-2 REACH-no: 01-2119474016-42	1.5 – 3.031	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
Ethyl maltol	CAS-No.: 4940-11-8 EC-No.: 225-582-5	1.5 – 3	Acute Tox. 4 (Oral), H302
Vertenex	CAS-No.: 32210-23-4 EC-No.: 250-954-9 REACH-no: 01-2119976286-24	1.5 – 3	Skin Sens. 1B, H317

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Helional	CAS-No.: 1205-17-0 EC-No.: 214-881-6 EC Index-No.: 605-042-00-9 REACH-no: 01-2120740119-58	1.5 – 3	Skin Sens. 1B, H317 Repr. 2, H361 Aquatic Chronic 2, H411
Hexyl salicylate	CAS-No.: 6259-76-3 EC-No.: 228-408-6 EC Index-No.: 607-772-00-3	1.5 – 3	Skin Sens. 1B, H317 Repr. 2, H361d Aquatic Acute 1, H400 Aquatic Chronic 1, H410
alpha-Methylcinnamic aldehyde	CAS-No.: 101-39-3 EC-No.: 202-938-8 REACH-no: 01-2119538797-21	1.5 – 3	Skin Sens. 1, H317 Aquatic Chronic 1, H410
Amyl cinnamic aldehyde	CAS-No.: 122-40-7 EC-No.: 204-541-5	1.5 – 2.9	Skin Sens. 1B, H317 Aquatic Chronic 2, H411
Triplal (Vertocitral)	CAS-No.: 68039-49-6 EC-No.: 268-264-1 EC Index-No.: 605-043-00-4	1.5 – 2.9	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412
Dimethylbenzyl carbinyl acetate(DMBCA)	CAS-No.: 151-05-3 EC-No.: 205-781-3	1.5 – 2.9	Aquatic Chronic 3, H412
Hexyl cinnamic aldehyde	CAS-No.: 101-86-0 EC-No.: 202-983-3 REACH-no: 01-2119533092-50	1.5 – 2.9	Skin Sens. 1, H317 Aquatic Chronic 2, H411
Orange oil	CAS-No.: 8008-57-9 EC-No.: 232-433-8 REACH-no: 01-2119493353-35	1.5 – 2.9	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Aldehyde C-10	CAS-No.: 112-31-2 EC-No.: 203-957-4	1.4 – 2.85	Eye Irrit. 2, H319 Aquatic Chronic 3, H412
Clove Leaf Oil	CAS-No.: 8000-34-8 EC-No.: 616-772-2	1.4 – 2.8	Eye Irrit. 2, H319 Skin Sens. 1, H317 Asp. Tox. 1, H304
isopentyl acetate substance with national workplace exposure limit(s) (AT, BE, BG, CY, DE, DK, EE, ES, FI, FR, GI, GR, HR, HU, IE, IT, LT, LU, LV, MT, NL, PL, PT, RO, SE, SI, SK, NO, CH, TR); substance with a Community workplace exposure limit	CAS-No.: 123-92-2 EC-No.: 204-662-3 EC Index-No.: 607-130-00-2 REACH-no: 01-2119548408-32	1.3 – 2.6	Flam. Liq. 3, H226
beta-Caryophyllene	CAS-No.: 87-44-5 EC-No.: 201-746-1 REACH-no: 01-2120745237-53	0.825 – 2.25	Asp. Tox. 1, H304 Skin Sens. 1B, H317
citral substance with national workplace exposure limit(s) (BE, ES, IE, PL, PT)	CAS-No.: 5392-40-5 EC-No.: 226-394-6 EC Index-No.: 605-019-00-3 REACH-no: 01-2119462829-23	1.1 – 2.15	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Citrus medica limonum (Lemon) peel oil	CAS-No.: 8008-56-8 EC-No.: 284-515-8	1 – 2	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Repr. 2, H361 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Vanillin	CAS-No.: 121-33-5 EC-No.: 204-465-2 REACH-no: 01-2119516040-60	0.855 – 1.683	Eye Irrit. 2, H319
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone	CAS-No.: 54464-57-2 EC-No.: 259-174-3 REACH-no: 01-2119489989-04	0.8 – 1.5	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 1, H410
Allyl caproate	CAS-No.: 123-68-2 EC-No.: 204-642-4 REACH-no: 01-2119983573-26	0.7 – 1.3	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Aquatic Acute 1, H400 Aquatic Chronic 3, H412
Ethyl acetoacetate substance with national workplace exposure limit(s) (RO)	CAS-No.: 141-97-9 EC-No.: 205-516-1	0.6 – 1.2	Not classified
Ethyl caproate	CAS-No.: 123-66-0 EC-No.: 204-640-3	0.6 – 1.15	Flam. Liq. 3, H226 Skin Irrit. 2, H315
benzyl benzoate	CAS-No.: 120-51-4 EC-No.: 204-402-9 EC Index-No.: 607-085-00-9 REACH-no: 01-2119976371-33	0.4 – 0.8415	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Sandela	CAS-No.: 66068-84-6 EC-No.: 266-100-3	0.4 – 0.8	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Allyl amyl glycolate	CAS-No.: 67634-00-8 EC-No.: 266-803-5	0.4 – 0.8	Acute Tox. 4 (Oral), H302 Acute Tox. 2 (Inhalation), H330 Aquatic Chronic 1, H410
Linalyl acetate	CAS-No.: 115-95-7 EC-No.: 204-116-4 REACH-no: 01-2119454789-19	0.4 – 0.73	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
ethyl acetate 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); substance with a Community workplace exposure limit	CAS-No.: 141-78-6 EC-No.: 205-500-4 EC Index-No.: 607-022-00-5 REACH-no: 01-2119475103-46	0.3 – 0.5	Flam. Liq. 1, H224 Eye Irrit. 2, H319 STOT SE 3, H336
Cinnamic aldehyde	CAS-No.: 104-55-2 EC-No.: 203-213-9 EC Index-No.: 606-155-00-6 REACH-no: 01-2119935242-45	0.075 – 0.375	Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1A, H317 Aquatic Chronic 3, H412

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Cornmint oil (redist)	CAS-No.: 68917-18-0 EC-No.: 294-486-3	0.1 – 0.15	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411
Ginger oil	CAS-No.: 8007-08-7 EC-No.: 283-634-2	0.1 – 0.15	Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
UNDECYLENAL	CAS-No.: 112-45-8 EC-No.: 203-973-1 REACH-no: 01-2119990746-20	0.1 – 0.1	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 3, H412
.alpha.-Pinene substance with national workplace exposure limit(s) (BE, EE, ES, LT, PT, SE, NO)	CAS-No.: 80-56-8 EC-No.: 201-291-9	0.01 – 0.055	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
.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 – 0.055	Flam. Liq. 3, H226
(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 – 0.04	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 – 0.005	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

### Specific concentration limits:

Name	Product identifier	Specific concentration limits (%)
Cinnamic aldehyde	CAS-No.: 104-55-2 EC-No.: 203-213-9 EC Index-No.: 606-155-00-6 REACH-no: 01-2119935242-45	(0.001 < C < 0.01) EUH208 (0.01 ≤ C < 0.1) Skin Sens. 1; H317 (0.1 ≤ C < 100) Skin Sens. 1A; H317

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention.

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First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see Get medical advice/attention. on this label). If skin irritation occurs: Get medical advice/attention. Wash with plenty of water/.... Wash contaminated clothing before reuse. Get medical advice/attention.
First-aid measures after eye contact	: 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. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects	: Suspected of damaging fertility or the unborn child.
Symptoms/effects after inhalation	: May cause an allergic skin reaction.
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction. Causes skin irritation.
Symptoms/effects after eye contact	: Eye irritation. Causes serious 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.
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### 5.3. Advice for firefighters

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

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 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.
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#### For emergency responders

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

### 6.2. Environmental precautions

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

### 6.3. Methods and material for containment and cleaning up

For containment	: Collect spillage.
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- Methods for cleaning up : Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. Notify authorities if product enters sewers or public waters.
- Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

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

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

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

### 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. Store locked up. 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

#### National occupational exposure and biological limit values

<b>(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)</b>	
<b>Finland - Occupational Exposure Limits</b>	
HTP (OEL TWA)	140 mg/m <sup>3</sup>
	25 ppm
HTP (OEL STEL)	280 mg/m <sup>3</sup>
	50 ppm
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
AGW (OEL TWA)	28 mg/m <sup>3</sup> (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

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<b>(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)</b>	
<b>Slovenia - Occupational Exposure Limits</b>	
OEL TWA	28 mg/m <sup>3</sup>
	5 ppm
OEL STEL	112 mg/m <sup>3</sup>
	20 ppm
OEL chemical category	Potential for cutaneous absorption
<b>Spain - Occupational Exposure Limits</b>	
VLA-ED (OEL TWA)	168 mg/m <sup>3</sup>
	30 ppm
OEL chemical category	Sensitizer, skin - potential for cutaneous absorption
<b>Norway - Occupational Exposure Limits</b>	
Grenseverdi (OEL TWA)	140 mg/m <sup>3</sup>
	25 ppm
Korttidsverdi (OEL STEL)	175 mg/m <sup>3</sup> (value calculated)
	37.5 ppm (value calculated)
OEL chemical category	Allergenic substance
<b>Switzerland - Occupational Exposure Limits</b>	
MAK (OEL TWA)	40 mg/m <sup>3</sup>
	7 ppm
KZGW (OEL STEL)	80 mg/m <sup>3</sup>
	14 ppm
OEL chemical category	Sensitizer
<b>.alpha.-Pinene (80-56-8)</b>	
<b>Belgium - Occupational Exposure Limits</b>	
OEL TWA	20 ppm
<b>Estonia - Occupational Exposure Limits</b>	
OEL TWA	150 mg/m <sup>3</sup> (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect)
	25 ppm (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect)
OEL STEL	300 mg/m <sup>3</sup> (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect)
	50 ppm (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect)
<b>Lithuania - Occupational Exposure Limits</b>	
IPRV (OEL TWA)	150 mg/m <sup>3</sup>
	25 ppm
TPRV (OEL STEL)	300 mg/m <sup>3</sup>
	50 ppm

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

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<b>.beta.-Pinene (127-91-3)</b>	
<b>Portugal - Occupational Exposure Limits</b>	
OEL TWA	20 ppm (Turpentine and selected Monoterpenes)
OEL chemical category	Sensitizer dermal, A4 - Not Classifiable as a Human Carcinogen
<b>Spain - Occupational Exposure Limits</b>	
VLA-ED (OEL TWA)	113 mg/m <sup>3</sup>
	20 ppm
OEL chemical category	Sensitizer
<b>Sweden - Occupational Exposure Limits</b>	
NGV (OEL TWA)	150 mg/m <sup>3</sup>
	25 ppm
KGV (OEL STEL)	300 mg/m <sup>3</sup>
	50 ppm
OEL chemical category	Skin sensitizer
<b>Norway - Occupational Exposure Limits</b>	
Grenseverdi (OEL TWA)	140 mg/m <sup>3</sup>
	25 ppm
Korttidsverdi (OEL STEL)	175 mg/m <sup>3</sup> (value calculated)
	37.5 ppm (value calculated)
<b>USA - ACGIH - Occupational Exposure Limits</b>	
ACGIH® TLV® TWA	20 ppm (Turpentine and selected Monoterpenes)
ACGIH® chemical category	Not Classifiable as a Human Carcinogen, dermal sensitizer
<b>isopentyl acetate (123-92-2)</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
IOEL TWA	270 mg/m <sup>3</sup>
	50 ppm
IOEL STEL	540 mg/m <sup>3</sup>
	100 ppm
<b>Austria - Occupational Exposure Limits</b>	
MAK (OEL TWA)	270 mg/m <sup>3</sup> (Pentyl acetate (all isomers))
	50 ppm (Pentyl acetate (all isomers))
MAK (OEL STEL)	540 mg/m <sup>3</sup> (Pentylacetate)
	100 ppm (Pentylacetate)
<b>Belgium - Occupational Exposure Limits</b>	
OEL TWA	270 mg/m <sup>3</sup>
	50 ppm
OEL STEL	540 mg/m <sup>3</sup>
	100 ppm
<b>Bulgaria - Occupational Exposure Limits</b>	
OEL TWA	270 mg/m <sup>3</sup>

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

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

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<b>isopentyl acetate (123-92-2)</b>	
<b>Netherlands - Occupational Exposure Limits</b>	
TGG-15min (OEL STEL)	530 mg/m <sup>3</sup>
	98.1 ppm
<b>Poland - Occupational Exposure Limits</b>	
NDS (OEL TWA)	250 mg/m <sup>3</sup>
NDSch (OEL STEL)	500 mg/m <sup>3</sup>
<b>Portugal - Occupational Exposure Limits</b>	
OEL TWA	270 mg/m <sup>3</sup> (indicative limit value)
	50 ppm (indicative limit value (Pentyl acetate, all isomers))
OEL STEL	540 mg/m <sup>3</sup> (indicative limit value)
	100 ppm (indicative limit value)
<b>Romania - Occupational Exposure Limits</b>	
OEL TWA	270 mg/m <sup>3</sup>
	50 ppm
OEL STEL	540 mg/m <sup>3</sup>
	100 ppm
<b>Slovakia - Occupational Exposure Limits</b>	
NPHV (OEL TWA)	270 mg/m <sup>3</sup>
	50 ppm
NPHV (OEL C)	540 mg/m <sup>3</sup>
<b>Slovenia - Occupational Exposure Limits</b>	
OEL TWA	270 mg/m <sup>3</sup>
	50 ppm
OEL STEL	540 mg/m <sup>3</sup>
	100 ppm
<b>Spain - Occupational Exposure Limits</b>	
VLA-ED (OEL TWA)	270 mg/m <sup>3</sup> (indicative limit value)
	50 ppm (indicative limit value)
VLA-EC (OEL STEL)	540 mg/m <sup>3</sup>
	100 ppm
<b>Sweden - Occupational Exposure Limits</b>	
NGV (OEL TWA)	270 mg/m <sup>3</sup>
	50 ppm
KGV (OEL STEL)	540 mg/m <sup>3</sup>
	100 ppm
<b>Norway - Occupational Exposure Limits</b>	
Grenseverdi (OEL TWA)	260 mg/m <sup>3</sup>
	50 ppm
Korttidsverdi (OEL STEL)	325 mg/m <sup>3</sup> (value calculated)

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<b>isopentyl acetate (123-92-2)</b>	
	75 ppm (value calculated)
<b>Switzerland - Occupational Exposure Limits</b>	
MAK (OEL TWA)	260 mg/m <sup>3</sup> (Pentyl acetate all isomers) 50 ppm (Pentyl acetate all isomers)
KZGW (OEL STEL)	260 mg/m <sup>3</sup> (Pentyl acetate all isomers) 50 ppm (Pentyl acetate all isomers)
<b>USA - ACGIH - Occupational Exposure Limits</b>	
ACGIH® TLV® TWA	50 ppm (Pentyl acetate, all isomers)
ACGIH® TLV® STEL	100 ppm (Pentyl acetate, all isomers)
<b>citral (5392-40-5)</b>	
<b>Belgium - Occupational Exposure Limits</b>	
OEL TWA	32 mg/m <sup>3</sup> (vapor and aerosol) 5 ppm (vapor and aerosol)
OEL chemical category	Skin
<b>Ireland - Occupational Exposure Limits</b>	
OEL TWA	5 ppm
OEL STEL	15 ppm (calculated)
<b>Poland - Occupational Exposure Limits</b>	
NDS (OEL TWA)	27 mg/m <sup>3</sup>
NDSCh (OEL STEL)	54 mg/m <sup>3</sup>
<b>Portugal - Occupational Exposure Limits</b>	
OEL TWA	5 ppm (inhalable fraction; vapor)
OEL chemical category	Sensitizer dermal, A4 - Not Classifiable as a Human Carcinogen, skin - potential for cutaneous exposure
<b>Spain - Occupational Exposure Limits</b>	
VLA-ED (OEL TWA)	5 ppm (inhalable fraction and vapor)
OEL chemical category	Sensitizer, skin - potential for cutaneous absorption
<b>USA - ACGIH - Occupational Exposure Limits</b>	
ACGIH® TLV® TWA	5 ppm (inhalable fraction and vapor)
ACGIH® chemical category	Not Classifiable as a Human Carcinogen, Skin - potential significant contribution to overall exposure by the cutaneous route, dermal sensitizer
<b>Ethyl acetoacetate (141-97-9)</b>	
<b>Romania - Occupational Exposure Limits</b>	
OEL TWA	100 mg/m <sup>3</sup> 19 ppm
OEL STEL	200 mg/m <sup>3</sup> 38 ppm

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<b>ethyl acetate (141-78-6)</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
IOEL TWA	734 mg/m <sup>3</sup>
	200 ppm
IOEL STEL	1468 mg/m <sup>3</sup>
	400 ppm
<b>Austria - Occupational Exposure Limits</b>	
MAK (OEL TWA)	734 mg/m <sup>3</sup>
	200 ppm
MAK (OEL STEL)	1468 mg/m <sup>3</sup>
	400 ppm
<b>Belgium - Occupational Exposure Limits</b>	
OEL TWA	734 mg/m <sup>3</sup>
	200 ppm
OEL STEL	1468 mg/m <sup>3</sup>
	400 ppm
<b>Bulgaria - Occupational Exposure Limits</b>	
OEL TWA	734 mg/m <sup>3</sup>
	200 ppm
OEL STEL	1468 mg/m <sup>3</sup>
	400 ppm
<b>Croatia - Occupational Exposure Limits</b>	
GVI (OEL TWA)	734 mg/m <sup>3</sup>
	200 ppm
KGVI (OEL STEL)	1468 mg/m <sup>3</sup>
	400 ppm
<b>Cyprus - Occupational Exposure Limits</b>	
OEL TWA	734 mg/m <sup>3</sup>
	200 ppm
OEL STEL	1468 mg/m <sup>3</sup>
	400 ppm
<b>Czech Republic - Occupational Exposure Limits</b>	
PEL (OEL TWA)	700 mg/m <sup>3</sup>
<b>Denmark - Occupational Exposure Limits</b>	
OEL TWA	540 mg/m <sup>3</sup>
	150 ppm
OEL STEL	1468 mg/m <sup>3</sup>
	400 ppm
<b>Estonia - Occupational Exposure Limits</b>	
OEL TWA	500 mg/m <sup>3</sup>

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<b>ethyl acetate (141-78-6)</b>	
	150 ppm
OEL STEL	1100 mg/m <sup>3</sup>
	300 ppm
<b>Finland - Occupational Exposure Limits</b>	
HTP (OEL TWA)	730 mg/m <sup>3</sup>
	200 ppm
HTP (OEL STEL)	1470 mg/m <sup>3</sup>
	400 ppm
<b>France - Occupational Exposure Limits</b>	
VME (OEL TWA)	734 mg/m <sup>3</sup> (restrictive limit)
	200 ppm (restrictive limit)
VLE (OEL C/STEL)	1468 mg/m <sup>3</sup> (restrictive limit)
	400 ppm (restrictive limit)
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
AGW (OEL TWA)	730 mg/m <sup>3</sup> (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
	200 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
<b>Gibraltar - Occupational Exposure Limits</b>	
OEL TWA	200 mg/m <sup>3</sup>
	734 ppm
OEL STEL	400 mg/m <sup>3</sup>
	1468 ppm
<b>Greece - Occupational Exposure Limits</b>	
OEL TWA	734 mg/m <sup>3</sup>
	200 ppm
OEL STEL	1468 mg/m <sup>3</sup>
	400 ppm
<b>Hungary - Occupational Exposure Limits</b>	
AK (OEL TWA)	734 mg/m <sup>3</sup>
CK (OEL STEL)	1468 mg/m <sup>3</sup>
OEL chemical category	Sensitizer
<b>Ireland - Occupational Exposure Limits</b>	
OEL TWA	734 mg/m <sup>3</sup>
	200 ppm
OEL STEL	1468 mg/m <sup>3</sup>
	400 ppm
<b>Italy - Occupational Exposure Limits</b>	
OEL TWA	734 mg/m <sup>3</sup>
	200 ppm

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<b>ethyl acetate (141-78-6)</b>	
OEL STEL	1468 mg/m <sup>3</sup>
	400 ppm
<b>Latvia - Occupational Exposure Limits</b>	
OEL TWA	200 mg/m <sup>3</sup>
	54 ppm
<b>Lithuania - Occupational Exposure Limits</b>	
IPRV (OEL TWA)	500 mg/m <sup>3</sup>
	150 ppm
NRV (OEL C)	1100 mg/m <sup>3</sup>
	300 ppm
<b>Luxembourg - Occupational Exposure Limits</b>	
OEL TWA	734 mg/m <sup>3</sup>
	200 ppm
OEL STEL	1468 mg/m <sup>3</sup>
	400 ppm
<b>Malta - Occupational Exposure Limits</b>	
OEL TWA	734 mg/m <sup>3</sup>
	200 ppm
OEL STEL	1468 mg/m <sup>3</sup>
	400 ppm
<b>Netherlands - Occupational Exposure Limits</b>	
TGG-8u (OEL TWA)	734 mg/m <sup>3</sup>
	200 ppm
TGG-15min (OEL STEL)	1468 mg/m <sup>3</sup>
	400 ppm
<b>Poland - Occupational Exposure Limits</b>	
NDS (OEL TWA)	734 mg/m <sup>3</sup>
NDSch (OEL STEL)	1468 mg/m <sup>3</sup>
<b>Portugal - Occupational Exposure Limits</b>	
OEL TWA	734 mg/m <sup>3</sup> (indicative limit value)
	200 ppm (indicative limit value)
OEL STEL	1468 mg/m <sup>3</sup> (indicative limit value)
	400 ppm (indicative limit value)
<b>Romania - Occupational Exposure Limits</b>	
OEL TWA	734 mg/m <sup>3</sup>
	200 ppm
OEL STEL	1468 mg/m <sup>3</sup>
	400 ppm

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ethyl acetate (141-78-6)	
<b>Slovakia - Occupational Exposure Limits</b>	
NPHV (OEL TWA)	734 mg/m <sup>3</sup>
	200 ppm
NPHV (OEL C)	1468 mg/m <sup>3</sup>
<b>Slovenia - Occupational Exposure Limits</b>	
OEL TWA	734 mg/m <sup>3</sup>
	200 ppm
OEL STEL	1468 mg/m <sup>3</sup>
	400 ppm
<b>Spain - Occupational Exposure Limits</b>	
VLA-ED (OEL TWA)	734 mg/m <sup>3</sup>
	200 ppm
VLA-EC (OEL STEL)	1468 mg/m <sup>3</sup>
	400 ppm
<b>Sweden - Occupational Exposure Limits</b>	
NGV (OEL TWA)	550 mg/m <sup>3</sup>
	150 ppm
KGV (OEL STEL)	1100 mg/m <sup>3</sup>
	300 ppm
<b>United Kingdom - Occupational Exposure Limits</b>	
WEL TWA (OEL TWA)	734 mg/m <sup>3</sup>
	200 ppm
WEL STEL (OEL STEL)	1468 mg/m <sup>3</sup>
	400 ppm
<b>Norway - Occupational Exposure Limits</b>	
Grenseverdi (OEL TWA)	734 mg/m <sup>3</sup>
	200 ppm
Korttidsverdi (OEL STEL)	1468 mg/m <sup>3</sup> (value from the regulation)
	400 ppm (value from the regulation)
<b>Switzerland - Occupational Exposure Limits</b>	
MAK (OEL TWA)	730 mg/m <sup>3</sup>
	200 ppm
KZGW (OEL STEL)	1460 mg/m <sup>3</sup>
	400 ppm
<b>USA - ACGIH - Occupational Exposure Limits</b>	
ACGIH® TLV® TWA	400 ppm
<b>p-Cymene (99-87-6)</b>	
<b>Denmark - Occupational Exposure Limits</b>	
OEL TWA	135 mg/m <sup>3</sup> (Methylisopropylbenzenes)

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p-Cymene (99-87-6)	
	25 ppm (Methylisopropylbenzenes)
OEL STEL	270 mg/m <sup>3</sup> (Methylisopropylbenzenes)
	50 ppm (Methylisopropylbenzenes)
Estonia - Occupational Exposure Limits	
OEL TWA	140 mg/m <sup>3</sup>
	25 ppm
OEL STEL	190 mg/m <sup>3</sup>
	35 ppm
Latvia - Occupational Exposure Limits	
OEL TWA	10 mg/m <sup>3</sup> (Cymene (2, 3, 4-isomers mixture))
Lithuania - Occupational Exposure Limits	
IPRV (OEL TWA)	140 mg/m <sup>3</sup>
	25 ppm
TPRV (OEL STEL)	190 mg/m <sup>3</sup>
	35 ppm
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	140 mg/m <sup>3</sup>
	25 ppm
KGV (OEL STEL)	190 mg/m <sup>3</sup>
	35 ppm

## 8.2. Exposure controls

### Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

### Personal protection equipment

#### Personal protective equipment:

Avoid all unnecessary exposure.

#### Personal protective equipment symbol(s):



### Eye and face protection

#### Eye protection:

Chemical goggles or safety glasses. Safety glasses

### Skin protection

#### Skin and body protection:

Wear suitable protective clothing

### Hand protection:

Wear protective gloves.

### Respiratory protection

#### Respiratory protection:

Wear appropriate mask. [In case of inadequate ventilation] wear respiratory protection.

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### 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.
Odour	: characteristic.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Not applicable, Non flammable.
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: 65 °C
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not available
pH solution concentration	: 1 %
Viscosity, kinematic	: Not available
Solubility	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: 0.013925328 mm Hg (calculated value)
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: ≈ 0.94
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

### 9.2. Other information

#### Other safety characteristics

VOC content : 27.3327 % (calculated value)(CARB VOC) (%w/w)

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

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

### 10.2. Chemical stability

Not established.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong acids. Strong bases.

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### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

## SECTION 11: Toxicological information

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

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

#### Verdox (88-41-5)

LD50 oral rat	4600 mg/kg (Source: NLM_CIP)
LD50 oral	4600 mg/kg

#### 2(3H)-Furanone, 5-heptyldihydro- (104-67-6)

LD50 oral rat	18500 mg/kg (Source: NLM_CIP)
LD50 dermal rat	> 2000 mg/kg (Source: ECHA)

#### Ethyl maltol (4940-11-8)

LD50 oral rat	1150 mg/kg (Source: NLM_CIP)
LD50 oral	1200 mg/kg
LD50 dermal rabbit	> 5000 mg/kg (Source: ECHA_API)

#### Linalool (78-70-6)

LD50 oral rat	2790 mg/kg (Source: NLM_CIP)
LD50 oral	2790 mg/kg
LD50 dermal rabbit	5610 mg/kg (Source: ECHA_API)

#### Vertenex (32210-23-4)

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

#### Helional (1205-17-0)

LD50 dermal rabbit	> 2000 mg/kg (Source: ECHA_API)
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#### Hexyl salicylate (6259-76-3)

LD50 oral rat	> 5 g/kg (Source: ECHA)
LD50 dermal rabbit	> 5000 mg/kg (Source: ECHA_API)

#### Eugenol (97-53-0)

LD50 oral rat	1930 mg/kg (Source: NZ_CCID)
LD50 oral	2500 mg/kg bodyweight
LC50 Inhalation - Rat	> 2.58 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)

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<b>Cinnamic aldehyde (104-55-2)</b>	
LD50 dermal	1260 mg/kg
<b>(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)</b>	
LD50 oral rat	4400 mg/kg (Source: CHEMVIEW)
LD50 dermal rabbit	> 5 g/kg (Source: CHEMVIEW)
<b>.alpha.-Pinene (80-56-8)</b>	
LD50 oral rat	3700 mg/kg (Source: NLM_CIP)
LD50 dermal rat	> 5000 mg/kg (Source: CHEMVIEW)
<b>Linalyl acetate (115-95-7)</b>	
LD50 oral rat	14550 mg/kg (Source: EPA_HPVS)
LD50 dermal rabbit	> 5000 mg/kg (Source: ECHA)
LC50 Inhalation - Rat	> 18.94 mg/l (Exposure time: 8 h Source: ECHA)
<b>.beta.-Pinene (127-91-3)</b>	
LD50 oral rat	> 5000 mg/kg (Source: EPA_HPVS)
LD50 dermal rabbit	> 5000 mg/kg (Source: CHEMVIEW)
<b>alpha-Methylcinnamic aldehyde (101-39-3)</b>	
LD50 oral rat	2050 mg/kg (Source: NLM_CIP)
LD50 oral	2050 mg/kg
LD50 dermal rabbit	> 5 g/kg (Source: NLM_CIP)
<b>Amyl cinnamic aldehyde (122-40-7)</b>	
LD50 oral rat	3730 mg/kg (Source: CHEMVIEW)
LD50 dermal rabbit	> 2000 mg/kg (Source: CHEMVIEW)
<b>Triplal (Vertocitral) (68039-49-6)</b>	
LD50 oral	2330 mg/kg
<b>Dimethylbenzyl carbonyl acetate(DMBCA) (151-05-3)</b>	
LD50 oral rat	3300 mg/kg (Source: NLM_CIP)
LD50 oral	3300 mg/kg
<b>Hexyl cinnamic aldehyde (101-86-0)</b>	
LD50 oral rat	3100 mg/kg (Source: NLM_CIP)
LD50 oral	3100 mg/kg
LD50 dermal rabbit	> 3000 mg/kg (Source: EPA_HPVS)
LC50 Inhalation - Rat	> 5 mg/l/4h
<b>Orange oil (8008-57-9)</b>	
LD50 oral rat	4400 mg/kg (Source: NZ_CCID)
LD50 dermal rabbit	> 5000 mg/kg (Source: CHEMVIEW)
<b>Aldehyde C-10 (112-31-2)</b>	
LD50 oral rat	3730 mg/kg (Source: NLM_HSDB)
LD50 oral	3730 mg/kg

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<b>Aldehyde C-10 (112-31-2)</b>	
LD50 dermal rabbit	5040 mg/kg (Source: NLM_HSDB)
<b>Clove Leaf Oil (8000-34-8)</b>	
LD50 oral rat	1370 mg/kg (Source: NZ_CCID)
LD50 oral	2650 mg/kg
LD50 dermal rabbit	1200 mg/kg (Source: NLM_CIP)
<b>citral (5392-40-5)</b>	
LD50 oral rat	4960 mg/kg (Source: NLM_CIP)
LD50 dermal rabbit	2250 mg/kg (Source: NLM_CIP)
<b>Citrus medica limonum (Lemon) peel oil (8008-56-8)</b>	
LD50 oral rat	2840 mg/kg (Source: NLM_CIP)
<b>Vanillin (121-33-5)</b>	
LD50 dermal rabbit	> 5010 mg/kg (Source: OECD_SIDS)
LD50 dermal	2600 mg/kg
<b>Allyl caproate (123-68-2)</b>	
LD50 oral	218 mg/kg
LD50 dermal rabbit	820 mg/kg (Source: ECHA_API)
LD50 dermal	300 mg/kg
<b>Ethyl acetoacetate (141-97-9)</b>	
LD50 oral rat	3980 mg/kg (Source: NLM_CIP)
LD50 dermal rabbit	> 5000 mg/kg (Source: NLM_CIP)
<b>benzyl benzoate (120-51-4)</b>	
LD50 oral rat	> 2000 mg/kg (Source: ECHA_API)
LD50 oral	1160 mg/kg
LD50 dermal rabbit	4000 mg/kg (Source: NLM_CIP)
<b>Sandela (66068-84-6)</b>	
LD50 dermal rat	> 2000 mg/kg (Source: ECHA_API)
LC50 Inhalation - Rat	> 5.27 mg/l/4h
<b>Allyl amyl glycolate (67634-00-8)</b>	
LD50 oral	500 mg/kg
LD50 dermal rat	> 2000 mg/kg (Source: ECHA_API)
LC50 Inhalation - Rat	0.43 mg/l/4h
LC50 Inhalation - Rat (Dust/Mist)	0.46 mg/l
<b>ethyl acetate (141-78-6)</b>	
LD50 oral rat	5620 mg/kg (Source: NLM_CIP)
LD50 dermal rabbit	> 18000 mg/kg (Source: JAPAN_GHS)
LC50 Inhalation - Rat [ppm]	4000 ppm/4h

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<b>Cornmint oil (redist) (68917-18-0)</b>	
LD50 oral rat	1240 mg/kg (Source: NZ_CCID)
LD50 oral	1200 mg/kg bodyweight
<b>Ginger oil (8007-08-7)</b>	
LD50 oral rat	> 5 g/kg (Source: NLM_CIP)
<b>p-Cymene (99-87-6)</b>	
LD50 oral rat	4750 mg/kg (Source: NLM_CIP)
LD50 oral	4750 mg/kg
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
<b>UNDECYLENAL (112-45-8)</b>	
LD50 oral rat	> 5 g/kg (Source: ECHA)
LD50 dermal rabbit	> 5000 mg/kg (Source: ECHA_API)
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
Additional information	: Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
<b>Eugenol (97-53-0)</b>	
IARC group	3 - Not classifiable
<b>(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)</b>	
IARC group	3 - Not classifiable
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.
STOT-single exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
<b>ethyl acetate (141-78-6)</b>	
STOT-single exposure	May cause drowsiness or dizziness.
STOT-repeated exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified
Additional information	: Based on available data, the classification criteria are not met
<b>beta-Caryophyllene (87-44-5)</b>	
Hydrocarbon	Yes
<b>(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)</b>	
Hydrocarbon	Yes
<b>.alpha.-Pinene (80-56-8)</b>	
Hydrocarbon	Yes
<b>.beta.-Pinene (127-91-3)</b>	
Hydrocarbon	Yes

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<b>benzyl benzoate (120-51-4)</b>	
Viscosity, kinematic	7.456 mm <sup>2</sup> /s
<b>p-Cymene (99-87-6)</b>	
Hydrocarbon	Yes

### 11.2. Information on other hazards

#### 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 : Toxic to aquatic life with long lasting effects.  
Ecology - water : Toxic 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) : Toxic to aquatic life with long lasting effects.

<b>2(3H)-Furanone, 5-heptyldihydro- (104-67-6)</b>	
LC50 - Fish [1]	569 mg/l 96 h
EC50 - Crustacea [1]	5.85 mg/l 48 h
EC50 - Other aquatic organisms [1]	5.94 mg/l 72 h
<b>Ethyl maltol (4940-11-8)</b>	
LC50 - Fish [1]	> 85 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: ECHA)
<b>Linalool (78-70-6)</b>	
LC50 - Fish [1]	27.8 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static] Source: ECHA)
EC50 - Crustacea [1]	20 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 96h - Algae [1]	88.3 mg/l (Species: Desmodesmus subspicatus)
<b>Vertenex (32210-23-4)</b>	
LC50 - Fish [1]	8.6 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static] Source: ECHA)
<b>Eugenol (97-53-0)</b>	
LC50 - Fish [1]	13 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static] Source: ECHA)
<b>(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)</b>	
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)
<b>.alpha.-Pinene (80-56-8)</b>	
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)
<b>Linalyl acetate (115-95-7)</b>	
LC50 - Fish [1]	11 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [flow-through] Source: ECHA)

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<b>Aldehyde C-10 (112-31-2)</b>	
LC50 - Fish [1]	1.45 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static] Source: ECHA)
<b>citral (5392-40-5)</b>	
EC50 - Crustacea [1]	7 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 72h - Algae [1]	16 mg/l (Species: Desmodesmus subspicatus)
EC50 96h - Algae [1]	19 mg/l (Species: Desmodesmus subspicatus)
<b>Vanillin (121-33-5)</b>	
LC50 - Fish [1]	53 – 61.3 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)
LC50 - Fish [2]	88 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: EPA)
NOEC (acute)	10000 mg/kg (Exposure time: 42 Days - Species: Eisenia foetida [soil dry weight])
<b>Allyl caproate (123-68-2)</b>	
LC50 - Fish [1]	0.117 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static] Source: ECHA)
<b>Ethyl acetoacetate (141-97-9)</b>	
LC50 - Fish [1]	298 mg/l (Exposure time: 96 h - Species: Pimephales promelas Source: IUCLID)
LC50 - Fish [2]	290 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: IUCLID)
EC50 - Crustacea [1]	646 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 72h - Algae [1]	> 500 mg/l (Species: Desmodesmus subspicatus)
<b>Ethyl caproate (123-66-0)</b>	
LC50 - Fish [1]	8.02 – 9.97 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)
<b>benzyl benzoate (120-51-4)</b>	
LC50 - Fish [1]	2.32 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static] Source: ECHA)
NOEC (chronic)	0.168 mg/l
<b>ethyl acetate (141-78-6)</b>	
LC50 - Fish [1]	220 – 250 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)
LC50 - Fish [2]	484 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through] Source: IUCLID)
EC50 - Crustacea [1]	560 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
<b>12.2. Persistence and degradability</b>	
<b>MULLED WINE CC-16291</b>	
Persistence and degradability	May cause long-term adverse effects in the environment.
<b>Verdox (88-41-5)</b>	
Persistence and degradability	Rapidly degradable
<b>2(3H)-Furanone, 5-heptyldihydro- (104-67-6)</b>	
Persistence and degradability	Rapidly degradable

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<b>Ethyl maltol (4940-11-8)</b>	
Persistence and degradability	Rapidly degradable
<b>Linalool (78-70-6)</b>	
Persistence and degradability	Rapidly degradable
<b>Vertenex (32210-23-4)</b>	
Persistence and degradability	Rapidly degradable
<b>Helional (1205-17-0)</b>	
Persistence and degradability	Rapidly degradable
<b>Hexyl salicylate (6259-76-3)</b>	
Persistence and degradability	Rapidly degradable
<b>beta-Caryophyllene (87-44-5)</b>	
Persistence and degradability	Rapidly degradable
<b>Eugenol (97-53-0)</b>	
Persistence and degradability	Rapidly degradable
<b>Cinnamic aldehyde (104-55-2)</b>	
Persistence and degradability	Rapidly degradable
<b>(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)</b>	
Persistence and degradability	Rapidly degradable
<b>.alpha.-Pinene (80-56-8)</b>	
Persistence and degradability	Rapidly degradable
<b>Linalyl acetate (115-95-7)</b>	
Persistence and degradability	Rapidly degradable
<b>.beta.-Pinene (127-91-3)</b>	
Persistence and degradability	Rapidly degradable
<b>alpha-Methylcinnamic aldehyde (101-39-3)</b>	
Persistence and degradability	Rapidly degradable
<b>Amyl cinnamic aldehyde (122-40-7)</b>	
Persistence and degradability	Rapidly degradable
<b>Triplal (Vertocitral) (68039-49-6)</b>	
Persistence and degradability	Rapidly degradable
<b>Dimethylbenzyl carbonyl acetate(DMBCA) (151-05-3)</b>	
Persistence and degradability	Rapidly degradable
<b>Hexyl cinnamic aldehyde (101-86-0)</b>	
Persistence and degradability	Rapidly degradable
<b>Orange oil (8008-57-9)</b>	
Persistence and degradability	Rapidly degradable

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<b>Aldehyde C-10 (112-31-2)</b>	
Persistence and degradability	Rapidly degradable
<b>Clove Leaf Oil (8000-34-8)</b>	
Persistence and degradability	Rapidly degradable
<b>isopentyl acetate (123-92-2)</b>	
Persistence and degradability	Rapidly degradable
<b>citral (5392-40-5)</b>	
Persistence and degradability	Rapidly degradable
<b>Citrus medica limonum (Lemon) peel oil (8008-56-8)</b>	
Persistence and degradability	Rapidly degradable
<b>Vanillin (121-33-5)</b>	
Persistence and degradability	Not established.
<b>1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone (54464-57-2)</b>	
Persistence and degradability	Rapidly degradable
<b>Allyl caproate (123-68-2)</b>	
Persistence and degradability	Rapidly degradable
<b>Ethyl acetoacetate (141-97-9)</b>	
Persistence and degradability	Rapidly degradable
<b>Ethyl caproate (123-66-0)</b>	
Persistence and degradability	Rapidly degradable
<b>benzyl benzoate (120-51-4)</b>	
Persistence and degradability	May cause long-term adverse effects in the environment.
<b>Sandela (66068-84-6)</b>	
Persistence and degradability	Rapidly degradable
<b>Allyl amyl glycolate (67634-00-8)</b>	
Persistence and degradability	Rapidly degradable
<b>ethyl acetate (141-78-6)</b>	
Persistence and degradability	Rapidly degradable
<b>Cornmint oil (redist) (68917-18-0)</b>	
Persistence and degradability	Rapidly degradable
<b>Ginger oil (8007-08-7)</b>	
Persistence and degradability	Rapidly degradable
<b>p-Cymene (99-87-6)</b>	
Persistence and degradability	Rapidly degradable
<b>UNDECYLENAL (112-45-8)</b>	
Persistence and degradability	Rapidly degradable

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### 12.3. Bioaccumulative potential

MULLED WINE CC-16291	
Bioaccumulative potential	Not established.
2(3H)-Furanone, 5-heptyldihydro- (104-67-6)	
Partition coefficient n-octanol/water (Log Pow)	3.6 (at 25 °C)
Ethyl maltol (4940-11-8)	
Partition coefficient n-octanol/water (Log Pow)	2.9 (at 25 °C)
Linalool (78-70-6)	
Partition coefficient n-octanol/water (Log Pow)	2.9 (at 20 °C (at pH 7)
Vertenex (32210-23-4)	
Partition coefficient n-octanol/water (Log Pow)	4.8 (at 25 °C)
Helional (1205-17-0)	
Partition coefficient n-octanol/water (Log Pow)	2.4 (at 25 °C)
Hexyl salicylate (6259-76-3)	
Partition coefficient n-octanol/water (Log Pow)	5.5 (at 30 °C (at pH 7)
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)
Cinnamic aldehyde (104-55-2)	
Partition coefficient n-octanol/water (Log Pow)	2.1065 (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)
.alpha.-Pinene (80-56-8)	
Partition coefficient n-octanol/water (Log Pow)	4.1
Linalyl acetate (115-95-7)	
Partition coefficient n-octanol/water (Log Pow)	3.9 (at 25 °C)
.beta.-Pinene (127-91-3)	
Partition coefficient n-octanol/water (Log Pow)	4.4 (at 25 °C)
Amyl cinnamic aldehyde (122-40-7)	
Partition coefficient n-octanol/water (Log Pow)	2.498 (at 25 °C (at pH 6.2)
Triplal (Vertocitral) (68039-49-6)	
Partition coefficient n-octanol/water (Log Pow)	2.6
Dimethylbenzyl carbiny acetate(DMBCA) (151-05-3)	
Partition coefficient n-octanol/water (Log Pow)	3.64 (at 25 °C (at pH >6-<7)
Orange oil (8008-57-9)	
Partition coefficient n-octanol/water (Log Pow)	≥ 2.78 – ≤ 4.88

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<b>Aldehyde C-10 (112-31-2)</b>	
Partition coefficient n-octanol/water (Log Pow)	3.8 (at 35 °C)
<b>isopentyl acetate (123-92-2)</b>	
Partition coefficient n-octanol/water (Log Pow)	2.7 (at 35 °C)
<b>citral (5392-40-5)</b>	
Partition coefficient n-octanol/water (Log Pow)	2.76 (at 25 °C)
<b>Vanillin (121-33-5)</b>	
Partition coefficient n-octanol/water (Log Pow)	1.23 (at 22 °C)
Bioaccumulative potential	Not established.
<b>1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone (54464-57-2)</b>	
Partition coefficient n-octanol/water (Log Pow)	5.65 (at 30°C)
<b>Allyl caproate (123-68-2)</b>	
Partition coefficient n-octanol/water (Log Pow)	3.191 (at 20 °C (at pH 5))
<b>Ethyl acetoacetate (141-97-9)</b>	
Partition coefficient n-octanol/water (Log Pow)	0.8 (at 20 °C)
<b>Ethyl caproate (123-66-0)</b>	
Partition coefficient n-octanol/water (Log Pow)	2.96 (at 22.4 °C)
<b>benzyl benzoate (120-51-4)</b>	
Partition coefficient n-octanol/water (Log Pow)	3.97 (at 25 °C)
Bioaccumulative potential	Not established.
<b>Allyl amyl glycolate (67634-00-8)</b>	
Partition coefficient n-octanol/water (Log Pow)	1.96 (at 25 °C (at pH 2.3))
<b>ethyl acetate (141-78-6)</b>	
BCF - Fish [1]	(30 dimensionless)
Partition coefficient n-octanol/water (Log Pow)	0.73 (at 20 °C (at pH 7))
<b>p-Cymene (99-87-6)</b>	
Partition coefficient n-octanol/water (Log Pow)	4.8 (at 20 °C (at pH 7))
Partition coefficient n-octanol/water (Log Kow)	0
<b>UNDECYLENAL (112-45-8)</b>	
Partition coefficient n-octanol/water (Log Pow)	4.672 (at 25 °C)

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

No additional information available

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### 12.7. Other adverse effects

#### MULLED WINE CC-16291

Other information	Avoid release to the environment.
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#### Vanillin (121-33-5)

Other information	Avoid release to the environment.
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#### benzyl benzoate (120-51-4)

Other information	Avoid release to the environment.
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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container in accordance with local/national laws and regulations.
Ecological waste information	: Avoid release to the environment.
HP Code	: HP6 - "Acute Toxicity:" waste which can cause acute toxic effects following oral or dermal administration, or inhalation exposure. HP4 - "Irritant – skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye. HP10 - "Toxic for reproduction:" waste which has adverse effects on sexual function and fertility in adult males and females, as well as developmental toxicity in the offspring. HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment

## SECTION 14: Transport information


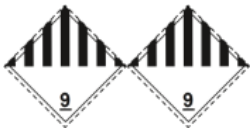

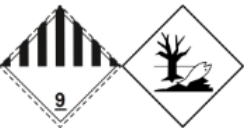
In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number or ID number</b>				
UN 3082	UN 3082	UN 3082	UN 3082	Not regulated
<b>14.2. UN proper shipping name</b>				
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (HEXYL SALICYLATE)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (HEXYL SALICYLATE)	Environmentally hazardous substance, liquid, n.o.s. (HEXYL SALICYLATE)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (HEXYL SALICYLATE)	Not regulated
<b>Transport document description</b>				
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (HEXYL SALICYLATE), 9, III, (-)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (HEXYL SALICYLATE), 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (HEXYL SALICYLATE), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (HEXYL SALICYLATE), 9, III	Not regulated
<b>14.3. Transport hazard class(es)</b>				
9	9	9	9	Not regulated

# MULLED WINE CC-16291

## Safety Data Sheet

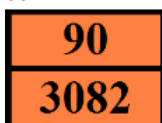
according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

ADR	IMDG	IATA	ADN	RID
				Not regulated
<b>14.4. Packing group</b>				
III	III	III	III	Not regulated
<b>14.5. Environmental hazards</b>				
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes EmS-No. (Fire): F-A EmS-No. (Spillage): S-F	Dangerous for the environment: Yes	Dangerous for the environment: Yes	Not regulated
No supplementary information available				

### 14.6. Special precautions for user

#### Overland transport

Classification code (ADR) : M6  
 Special provisions (ADR) : 274, 335, 375, 601  
 Limited quantities (ADR) : 5I  
 Excepted quantities (ADR) : E1  
 Packing instructions (ADR) : P001, IBC03, LP01, R001  
 Special packing provisions (ADR) : PP1  
 Mixed packing provisions (ADR) : MP19  
 Portable tank and bulk container instructions (ADR) : T4  
 Portable tank and bulk container special provisions (ADR) : TP1, TP29  
 Tank code (ADR) : LGBV  
 Vehicle for tank carriage : AT  
 Transport category (ADR) : 3  
 Special provisions for carriage - Packages (ADR) : V12  
 Special provisions for carriage - Loading, unloading and handling (ADR) : CV13  
 Hazard identification number (Kemler No.) : 90  
 Orange plates :



Tunnel restriction code (ADR) : -  
 EAC code : •3Z

#### Transport by sea

Special provisions (IMDG) : 274, 335, 969  
 Limited quantities (IMDG) : 5 L  
 Excepted quantities (IMDG) : E1  
 Packing instructions (IMDG) : LP01, P001  
 Special packing provisions (IMDG) : PP1  
 IBC packing instructions (IMDG) : IBC03  
 Tank instructions (IMDG) : T4  
 Tank special provisions (IMDG) : TP1, TP29  
 Stowage category (IMDG) : A

#### Air transport

PCA Excepted quantities (IATA) : E1  
 PCA Limited quantities (IATA) : Y964  
 PCA limited quantity max net quantity (IATA) : 30kgG  
 PCA packing instructions (IATA) : 964

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PCA max net quantity (IATA)	: 450L
CAO packing instructions (IATA)	: 964
CAO max net quantity (IATA)	: 450L
Special provisions (IATA)	: A97, A158, A197, A215
ERG code (IATA)	: 9L

### Inland waterway transport

Classification code (ADN)	: M6
Special provisions (ADN)	: 274, 335, 375, 601
Limited quantities (ADN)	: 5 L
Excepted quantities (ADN)	: E1
Carriage permitted (ADN)	: T
Equipment required (ADN)	: PP
Number of blue cones/lights (ADN)	: 0

### Rail transport

Not regulated

### 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

#### EU-Regulations

#### REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
3(a)	Orange oil ; Isoamyl acetate ; Lemon oil ; Ethyl caproate ; Ethyl acetate	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F
3(b)	MULLED WINE CC-16291 ; alpha-Methylcinnamic aldehyde ; Vertenex ; Cinnamic aldehyde ; Eugenol ; Linalyl acetate ; Linalool ; Hexyl salicylate ; Helional ; Triplal (Vertocitral) ; Orange oil ; Amyl cinnamic aldehyde ; Hexyl cinnamic aldehyde ; Aldehyde C-10 ; Clove Leaf Oil ; Citral ; Lemon oil ; 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone ; Allyl caproate ; Ethyl caproate ; Benzyl benzoate ; Allyl amyl glycolate ; Sandela ; Ethyl acetate ; Ginger oil ; Cornmint oil (redist) ; UNDECYLENAL	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

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EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
3(c)	MULLED WINE CC-16291 ; Verdox ; Aldehyde C-14 ; Cinnamic aldehyde ; Hexyl salicylate ; Helional ; Triplal (Vertocitral) ; Orange oil ; Dimethylbenzyl carbonyl acetate(DMBCA) ; Amyl cinnamic aldehyde ; Hexyl cinnamic aldehyde ; Aldehyde C-10 ; Lemon oil ; 1-(1,2,3,4,5,6,7,8- Octahydro-2,3,8,8- tetramethyl-2- naphthalenyl)ethanone ; Allyl caproate ; Benzyl benzoate ; Sandela ; Ginger oil ; Cornmint oil (redist) ; UNDECYLENAL	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.	Orange oil ; Isoamyl acetate ; Lemon oil ; Ethyl caproate ; Ethyl acetate	Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.

### REACH Annex XIV (Authorisation List)

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

### REACH Candidate List (SVHC)

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

### PIC Regulation (Prior Informed Consent)

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

### POP Regulation (Persistent Organic Pollutants)

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

### Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 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

### VOC Directive (2004/42)

VOC content : 27.3327 % (calculated value)(CARB VOC) (%w/w)

### Explosives Precursors Regulation (EU 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 (EC 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)

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### 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

VOC ordinance (ChemVOCFarbV) : VOC content : 27.3327 % (calculated value)(CARB VOC) (%w/w)

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 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 : Triplal (Vertocitral), Orange oil, Lemon oil, Sandela, Allyl amyl glycolate, Cornmint oil (redist), Ginger oil are listed

SZW-lijst van mutagene stoffen : Triplal (Vertocitral), Orange oil, Lemon oil, Sandela, Allyl amyl glycolate, Ginger 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 : Hexyl salicylate is listed

#### Denmark

Class for fire hazard : Class III-1

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 it.  
If an employee is pregnant or breastfeeding and the person in question uses or is exposed to this product at work, the employer must always carry out a risk assessment of the work. The assessment must both deal with the dangerousness of the impact and its strength and duration. The employer's decision that a pregnant or lactating woman can perform a specific work task must therefore be made in the context of her specific working conditions. See also WEA-Guideline A.1.8-7 on the working environment of pregnant and breastfeeding workers.

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### Poland

#### Polish National Regulations

- : Act of 25 February 2011 on chemical substances and their mixtures (J. o L. No. 63, item 322 as amended; consolidated text J. o L. 2019, item 1225).
- Act of 14 December 2012 on waste (J. o L. 2013, item 322 as amended; consolidated text J. o L. 2020, item 797).
- The announcement of Marshal of the Sejm of the Republic of Poland dated 19 October 2016 concerning the consolidated text announcement of the decree on the management of packaging and packaging waste (J. o L. 2016, item 1863 as amended).
- Decree of the Minister of Environment of 14 December 2014 on the catalogue of waste (J. o L. 2014, item 1923).
- Act of 19 August 2011 on the Carriage of Dangerous Goods (J. o L. 2011 No. 227, item 1367 as amended; consolidated text J. o L. 2020, item 154).
- Regulation of the Minister of Family, Labour and Social Policy of 12 June 2018 on the highest permissible concentration and intensity of noxious agents for health at work environment (J. o L. item 1286 as amended).
- The announcement of Minister of Health dated 9 September 2016 concerning the consolidated text announcement of the decree of the Minister of Health of 30 December 2004 on health and safety at work related to exposure to chemical agents at work (J. o L. of 16 September 2016, item 1488)
- Regulation of the Minister of Health of 2 February 2011 on tests and measurements of the noxious agents for health at work environment (J. o L. No. 33, item 166 as amended).
- Regulation of the Minister of Environment of 9 December 2003 on particularly hazardous substances to the environment (J. o L. No. 217, item 2141).
- ADR Agreement: Government Statement of 13 March 2023 on the entry into force of amendments to Annexes A and B to the Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), signed in Geneva on 30 September 1957 (J. o. L. 2023, item 891)
- Regulation of the Minister of Health of 25 August 2015 on the method of marking places, pipelines, and containers and tanks used for storing or containing hazardous substances or hazardous mixtures (J.o.L. 2015, item 1368 as amended)

### 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. 2 (Inhalation)	Acute toxicity (inhal.), Category 2
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

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Full text of H- and EUH-statements:	
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
EUH208	Contains {0 message≤name of sensitising substance> fieldvalue=_SENSITIZER_COMPONENTS}. May produce an allergic reaction.
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 1	Flammable liquids, Category 1
Flam. Liq. 3	Flammable liquids, Category 3
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 SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis
H224	Extremely flammable liquid and vapour.
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.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child.
H361d	Suspected of damaging 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.

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.