

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 18.09.2019 Revision date: 30.11.2023 Supersedes version of: 20.07.2020 Version: 2.0

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

#### 1.1. Product identifier

Product form : Mixture

 Trade name
 : OUD & WOOD #EU42766F

 UFI
 : 2PET-K3XH-A00P-1CY0

Product code : EU42766F

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 : For professional use only

Industrial

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

FRENCH COLOR & FRAGRANCE International GmbH

Mittlerer Weg 35 DE- 79424 Auggen

Germany

T 49-7631-931-8900

SDS@frenchcolor.com - www.frenchcolor.com

#### 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]

Acute toxicity (oral), Category 4 H302
Skin corrosion/irritation, Category 2 H315
Serious eye damage/eye irritation, Category 2 H319
Skin sensitisation, Category 1 H317
Hazardous to the aquatic environment – Acute Hazard,

Category 1

Hazardous to the aquatic environment – Chronic Hazard, H411

Category 2

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

### Adverse physicochemical, human health and environmental effects

May cause cancer. Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. Very toxic to aquatic life. Toxic to aquatic life with long lasting effects. May cause an allergic skin reaction.

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#### 2.2. Label elements

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

Hazard pictograms (CLP)





GHS07

07 GHS09

Signal word (CLP) : Warning

Contains : Benzyl benzoate; Iso E Super; Patchouli oil; Amyl cinnamic aldehyde; Vertenex; Vertofix;

Benzyl alcohol; Bergamot oil; Eugenol; Cinnamic aldehyde; COUMARIN; Linalyl acetate;

Heliotropine; Aldehyde C-16; Eucalyptus oil; Linalool; beta-Caryophyllene

Hazard statements (CLP) : H302 - Harmful if swallowed.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation.

H410 - Very toxic 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. P270 - Do not eat, drink or smoke when using this product.

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.

Extra phrases : For professional users only.

#### 2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 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]
benzyl benzoate	CAS-No.: 120-51-4 EC-No.: 204-402-9 EC Index-No.: 607-085-00-9 REACH-no: 01-2119976371- 33	22,5 – 45,075	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Iso E Super	CAS-No.: 54464-57-2 EC-No.: 259-174-3 REACH-no: 01-2119489989- 04	4,2 – 8,45	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 1, H410
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide; (HHCB)	CAS-No.: 1222-05-5 EC-No.: 214-946-9 EC Index-No.: 603-212-00-7 REACH-no: 01-2119488227- 29	2,1 – 4,125	Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Patchouli oil	CAS-No.: 8014-09-3 EC Index-No.: 616-944-7	1,8 – 3,5	Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Vertofix	CAS-No.: 32388-55-9 EC-No.: 251-020-3 REACH-no: 01-2119969651- 28	1,5 – 2,9	Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
benzyl alcohol substance with national workplace exposure limit(s) (BG, CZ, DE, FI, LT, LV, PL, SI, CH)	CAS-No.: 100-51-6 EC-No.: 202-859-9 EC Index-No.: 603-057-00-5 REACH-no: 01-2119492630-38	1,5 – 2,9	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319
Bergamot oil	CAS-No.: 8007-75-8 EC-No.: 289-612-9	1,2 – 2,325	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Chronic 3, H412
Eugenol	CAS-No.: 97-53-0 EC-No.: 202-589-1 REACH-no: 01-2119971802- 33	1,125 – 2,325	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Skin Sens. 1B, H317
Vertenex	CAS-No.: 32210-23-4 EC-No.: 250-954-9 REACH-no: 01-2119976286- 24	1 – 2	Skin Sens. 1B, H317
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	CAS-No.: 63500-71-0 EC-No.: 405-040-6 EC Index-No.: 603-101-00-3 REACH-no: 01-000015458-64	0,5 – 2	Eye Irrit. 2, H319
Ethylene brassylate	CAS-No.: 105-95-3 EC-No.: 203-347-8 REACH-no: 01-2119976314- 33	0,9 – 1,75	Aquatic Chronic 2, H411
Amyl cinnamic aldehyde	CAS-No.: 122-40-7 EC-No.: 204-541-5	0,9 – 1,7	Skin Sens. 1B, H317 Aquatic Chronic 2, H411
Cinnamic aldehyde	CAS-No.: 104-55-2 EC-No.: 203-213-9 REACH-no: 01-2119935242- 45	0,805 – 1,66875	Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1A, H317 Aquatic Chronic 3, H412
Diethyl malonate	CAS-No.: 105-53-3 EC-No.: 203-305-9 REACH-no: 01-2119886972- 18	0,7 – 1,45	Eye Irrit. 2, H319
COUMARIN	CAS-No.: 91-64-5 EC-No.: 202-086-7 REACH-no: 01-2119943756- 26	0,60001 – 1,100015	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Skin Sens. 1, H317 Aquatic Chronic 2, H411

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Linalyl acetate	CAS-No.: 115-95-7 EC-No.: 204-116-4 REACH-no: 01-2119454789- 19	0,2 – 0,4515	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
Cedarwood oil, Texas	CAS-No.: 68990-83-0 EC-No.: 294-461-7	0,2 - 0,45	Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Camphor substance with national workplace exposure limit(s) (AT, BE, BG, DK, ES, FI, FR, GB, GR, HR, IE, LT, PL, PT, RO, SK, NO, CH)	CAS-No.: 76-22-2 EC-No.: 200-945-0	0,1 – 0,25	Flam. Sol. 2, H228 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 2, H371 Aquatic Chronic 2, H411
Benzyl acetate substance with national workplace exposure limit(s) (BE, DK, ES, IE, LT, LV, PT, RO)	CAS-No.: 140-11-4 EC-No.: 205-399-7 REACH-no: 01-2119638272- 42	0,1 – 0,15	Aquatic Chronic 3, H412
Heliotropine	CAS-No.: 120-57-0 EC-No.: 204-409-7 REACH-no: 01-2119983608- 21	0,1 – 0,15	Skin Sens. 1B, H317
Eucalyptus oil	CAS-No.: 8000-48-4 EC-No.: 283-406-2 REACH-no: 01-2119978250- 37	0,1 – 0,15	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
beta-Caryophyllene	CAS-No.: 87-44-5 EC-No.: 201-746-1 REACH-no: 01-2120745237- 53	0,055 – 0,1125	Skin Sens. 1B, H317 Asp. Tox. 1, H304
Linalool	CAS-No.: 78-70-6 EC-No.: 201-134-4 EC Index-No.: 603-235-00-2 REACH-no: 01-2119474016-	0,1 – 0,1015	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
Aldehyde C-16	CAS-No.: 77-83-8 EC-No.: 201-061-8 REACH-no: 01-2119967770- 28	0,1 – 0,1	Skin Sens. 1B, H317 Aquatic Chronic 2, H411
(R)-p-mentha-1,8-diene; d-limonene substance with national workplace exposure limit(s) (DE, ES, FI, SI, NO, CH)	CAS-No.: 5989-27-5 EC-No.: 205-341-0 EC Index-No.: 601-096-00-2 REACH-no: 01-2119493353- 35	< 0,0015	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 3, H412
.alphaPinene substance with national workplace exposure limit(s) (BE, EE, ES, LT, PT, SE, NO)	CAS-No.: 80-56-8 EC-No.: 201-291-9	< 0,0015	Flam. Liq. 3, H226

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
.betaPinene substance with national workplace exposure limit(s) (BE, EE, ES, LT, PT, SE, NO)	CAS-No.: 127-91-3 EC-No.: 204-872-5	< 0,0015	Flam. Liq. 3, H226

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

## **SECTION 4: First aid measures**

First-aid measures after skin contact

### 4.1. Description of first aid measures

First-aid measures general : IF exposed or concerned: Get medical advice/attention. Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where

possible). Call a poison center or a doctor if you feel unwell.

: Remove person to fresh air and keep comfortable for breathing. Allow affected person to

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Allow affected breathe fresh air. Allow the victim to rest.

Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see Get medical advice/attention. on this label). If skin irritation occurs: Get medical advice/attention. Wash skin with plenty of water. Take off contaminated

clothing. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness

persists. Rinse 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 : Do NOT induce vomiting. Obtain emergency medical attention. Rinse mouth. 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 : May cause an allergic skin reaction. Irritation.

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 : Only qualified personnel equipped with suitable protective equipment may intervene.

Evacuate unnecessary personnel. 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 product enters sewers or public waters. 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.

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or

public waters. Soak up spills with inert solids, such as clay or diatomaceous earth as soon

as possible. Collect spillage. Store away from other materials.

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

#### 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. Obtain special instructions before use. Do not

handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Avoid 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 : Store locked up. Keep only in the original container in a cool, well ventilated place away

from : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container closed when not in use. Store in a well-ventilated place. Keep

cool

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

Storage temperature : 25 °C

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

Special rules on packaging : Store in a closed container.

Packaging materials : Do not store in corrodable metal.

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# 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

benzyl alcohol (100-51-6)		
Bulgaria - Occupational Exposure Limits		
OEL TWA	5 mg/m³	
Czech Republic - Occupational Exposure Limits		
PEL (OEL TWA)	40 mg/m³	
Finland - Occupational Exposure Limits		
HTP (OEL TWA) [1]	45 mg/m³	
HTP (OEL TWA) [2]	10 ppm	
Germany - Occupational Exposure Limits (TRGS 90	0)	
AGW (OEL TWA) [1]	22 mg/m³ (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	
Latvia - Occupational Exposure Limits		
OEL TWA	5 mg/m³	
Lithuania - Occupational Exposure Limits		
IPRV (OEL TWA)	5 mg/m³	
OEL chemical category	Skin notation	
Poland - Occupational Exposure Limits		
NDS (OEL TWA)	240 mg/m³	
Slovenia - Occupational Exposure Limits		
OEL TWA	22 mg/m³	
OEL TWA	5 ppm	
OEL STEL	44 mg/m³	
OEL STEL	10 ppm	
OEL chemical category	Potential for cutaneous absorption	
Switzerland - Occupational Exposure Limits		
MAK (OEL TWA) [1]	22 mg/m³ (aerosol, vapour)	
MAK (OEL TWA) [2]	5 ppm (aerosol, vapour)	
OEL chemical category	Skin notation	
Benzyl acetate (140-11-4)		
Belgium - Occupational Exposure Limits		
OEL TWA	62 mg/m³	

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Benzyl acetate (140-11-4)			
OEL TWA	10 ppm		
Denmark - Occupational Exposure Limits			
OEL TWA [1]	61 mg/m³		
OEL TWA [2]	10 ppm		
OEL STEL	122 mg/m³		
OEL STEL	20 ppm		
Ireland - Occupational Exposure Limits			
OEL TWA [2]	10 ppm		
OEL STEL	30 ppm (calculated)		
Latvia - Occupational Exposure Limits			
OEL TWA	5 mg/m³		
Lithuania - Occupational Exposure Limits			
IPRV (OEL TWA)	5 mg/m³		
Portugal - Occupational Exposure Limits			
OEL TWA	10 ppm		
OEL chemical category	A4 - Not Classifiable as a Human Carcinogen		
Romania - Occupational Exposure Limits			
OEL TWA	50 mg/m³		
OEL TWA	8 ppm		
OEL STEL	80 mg/m³		
OEL STEL	13 ppm		
Spain - Occupational Exposure Limits			
VLA-ED (OEL TWA) [1]	62 mg/m³		
VLA-ED (OEL TWA) [2]	10 ppm		
USA - ACGIH - Occupational Exposure Limits			
ACGIH OEL TWA [ppm]	10 ppm		
ACGIH chemical category	Not Classifiable as a Human Carcinogen		
Camphor (76-22-2)	Camphor (76-22-2)		
Austria - Occupational Exposure Limits			
MAK (OEL TWA)	13 mg/m³		
MAK (OEL TWA) [ppm]	2 ppm		
Belgium - Occupational Exposure Limits			
OEL TWA	12 mg/m³		
OEL TWA	2 ppm		
OEL STEL	19 mg/m³		
OEL STEL	3 ppm		
Bulgaria - Occupational Exposure Limits			
OEL TWA	12 mg/m³		
OEL STEL	18 mg/m³		

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Camphor (76-22-2)		
Croatia - Occupational Exposure Limits		
GVI (OEL TWA) [1]	13 mg/m³	
GVI (OEL TWA) [2]	2 ppm	
KGVI (OEL STEL)	19 mg/m³	
KGVI (OEL STEL) [ppm]	3 ppm	
Denmark - Occupational Exposure Limits		
OEL TWA [1]	12 mg/m³	
OEL TWA [2]	2 ppm	
OEL STEL	24 mg/m³	
OEL STEL	4 ppm	
Finland - Occupational Exposure Limits		
HTP (OEL TWA) [1]	1,9 mg/m³	
HTP (OEL TWA) [2]	0,3 ppm	
HTP (OEL STEL)	5,7 mg/m³	
HTP (OEL STEL) [ppm]	0,9 ppm	
France - Occupational Exposure Limits		
VME (OEL TWA)	12 mg/m³	
VME (OEL TWA) [ppm]	2 ppm	
Greece - Occupational Exposure Limits		
OEL TWA	12 mg/m³ (inhalable fraction)	
OEL STEL	18 mg/m³	
Ireland - Occupational Exposure Limits		
OEL TWA [1]	12 mg/m³	
OEL TWA [2]	2 ppm	
OEL STEL	18 mg/m³	
OEL STEL	3 ppm	
Lithuania - Occupational Exposure Limits		
IPRV (OEL TWA)	3 mg/m³	
Poland - Occupational Exposure Limits		
NDS (OEL TWA)	12 mg/m³	
NDSCh (OEL STEL)	18 mg/m³	
Portugal - Occupational Exposure Limits		
OEL TWA	2 ppm	
OEL STEL	3 ppm	
OEL chemical category	A4 - Not Classifiable as a Human Carcinogen	
Romania - Occupational Exposure Limits		
OEL TWA	1 mg/m³	
OEL TWA	6 ppm	
OEL STEL	3 mg/m³	

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Camphor (76-22-2)			
OEL STEL	18 ppm		
Slovakia - Occupational Exposure Limits			
NPHV (OEL TWA) [1]	13 mg/m³		
NPHV (OEL TWA) [2]	2 ppm		
NPHV (OEL C)	26 mg/m³		
Spain - Occupational Exposure Limits			
VLA-ED (OEL TWA) [1]	13 mg/m³		
VLA-ED (OEL TWA) [2]	2 ppm		
VLA-EC (OEL STEL)	19 mg/m³		
VLA-EC (OEL STEL) [ppm]	3 ppm		
United Kingdom - Occupational Exposure Limits			
WEL TWA (OEL TWA) [1]	13 mg/m³		
WEL TWA (OEL TWA) [2]	2 ppm		
WEL STEL (OEL STEL)	19 mg/m³		
WEL STEL (OEL STEL) [ppm]	3 ppm		
Norway - Occupational Exposure Limits			
Grenseverdi (OEL TWA) [1]	12 mg/m³		
Grenseverdi (OEL TWA) [2]	2 ppm		
Korttidsverdi (OEL STEL)	18 mg/m³ (value calculated)		
Korttidsverdi (OEL STEL) [ppm]	4 ppm (value calculated)		
Switzerland - Occupational Exposure Limits			
MAK (OEL TWA) [1]	13 mg/m³ (aerosol, vapour)		
MAK (OEL TWA) [2]	2 ppm (aerosol, vapour)		
USA - ACGIH - Occupational Exposure Limits			
ACGIH OEL TWA [ppm]	2 ppm (synthetic)		
ACGIH OEL STEL [ppm]	3 ppm (synthetic)		
ACGIH chemical category	Not Classifiable as a Human Carcinogen synthetic		
(R)-p-mentha-1,8-diene; d-limonene (5989-27-	(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)		
Finland - Occupational Exposure Limits			
HTP (OEL TWA) [1]	140 mg/m³		
HTP (OEL TWA) [2]	25 ppm		
HTP (OEL STEL)	280 mg/m³		
HTP (OEL STEL) [ppm]	50 ppm		
Germany - Occupational Exposure Limits (TRGS 900)			
AGW (OEL TWA) [1]	28 mg/m³ (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		

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(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)		
Slovenia - Occupational Exposure Limits		
OEL TWA	28 mg/m³	
OEL TWA	5 ppm	
OEL STEL	112 mg/m³	
OEL STEL	20 ppm	
OEL chemical category	Potential for cutaneous absorption	
Spain - Occupational Exposure Limits		
VLA-ED (OEL TWA) [1]	168 mg/m³	
VLA-ED (OEL TWA) [2]	30 ppm	
OEL chemical category	Sensitizer, skin - potential for cutaneous absorption	
Norway - Occupational Exposure Limits		
Grenseverdi (OEL TWA) [1]	140 mg/m³	
Grenseverdi (OEL TWA) [2]	25 ppm	
Korttidsverdi (OEL STEL)	175 mg/m³ (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/m³	
MAK (OEL TWA) [2]	7 ppm	
KZGW (OEL STEL)	80 mg/m³	
KZGW (OEL STEL) [ppm]	14 ppm	
OEL chemical category	Sensitizer	
.alphaPinene (80-56-8)		
Belgium - Occupational Exposure Limits		
OEL TWA	20 ppm	
Estonia - Occupational Exposure Limits		
OEL TWA	150 mg/m³ (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	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/m³ (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	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/m³	
IPRV (OEL TWA) [ppm]	25 ppm	
TPRV (OEL STEL)	300 mg/m³	
TPRV (OEL STEL) [ppm]	50 ppm	

# Safety Data Sheet

Portugal - Occupational Exposure Limits	claba Binana (90 EC 9)		
OEL TWA 20 ppm (Turpentine and selected Monoterpenes)  OEL chemical category Sensitizer dermal, A4 - Not Classifiable as a Human Carcinogen  Spain - Occupational Exposure Limits  VLA-ED (OEL TWA) [1] 13 mg/m²  VLA-ED (OEL TWA) [2] 20 ppm  OEL chemical category Sensitizer  Sweden - Occupational Exposure Limits  NGV (OEL TWA) [ppm] 25 ppm  KTV (OEL TWA) [ppm] 25 ppm  KTV (OEL STEL) [ppm] 50 ppm  OEL chemical category Sensitizer  Norway - Occupational Exposure Limits  Norway - Occupational Exposure Limits  Grenseverdi (OEL TWA) [1] 140 mg/m²  Grenseverdi (OEL TWA) [1] 140 mg/m²  Grenseverdi (OEL TWA) [2] 25 ppm  Kortidsverdi (OEL STEL) [ppm] 37.5 ppm (value calculated)  Kortidsverdi (OEL STEL) [ppm] 37.5 ppm (value calculated)  OEL chemical category Skin notation  USA - ACGIH - Occupational Exposure Limits  ACGIH - Occupational Exposure Limits  ACGIH - Occupational Exposure Limits  DEL TWA [2] 20 ppm (Turpentine and selected Monoterpenes)  ACGIH - Chemical category Not Classifiable as a Human Carcinogen, dermal sensitizer  Jesta-Pinene (127-91-3)  Belgium - Occupational Exposure Limits  OEL TWA 20 ppm  Estonia - Occupational Exposure Limits  OEL TWA 25 ppm (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carrene, have a lesser effect)  OEL STEL 300 mg/m² (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carrene, have a lesser effect)  OEL STEL 50 ppm (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carrene, have a lesser effect)  OEL STEL 50 ppm (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carrene, have a lesser effect)  OEL STEL 50 ppm (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carrene, have a lesser effect)	.alphaPinene (80-56-8)		
OEL chemical category  Sensitzer dermal, A4 - Not Classifiable as a Human Carcinogen  Spain - Occupational Exposure Limits  VLA-ED (OEL TWA) [1]  VLA-ED (OEL TWA) [2]  20 ppm  OEL chemical category  Sweden - Occupational Exposure Limits  NGV (OEL TWA)  NGV (OEL TWA) [pm]  25 ppm  KTV (OEL STEL)  300 mg/m²  KTV (OEL STEL) [pm]  OEL chemical category  Sensitzer  Norway - Occupational Exposure Limits  Grenseverid (OEL TWA) [1]  140 mg/m²  Grenseverid (OEL TWA) [1]  Grenseverid (OEL TWA) [2]  25 ppm  Kortididaverid (OEL STEL) [pm]  37,5 ppm (value calculated)  Kortididaverid (OEL STEL) [pm]  37,5 ppm (value calculated)  Cel chemical category  Norway - Occupational Exposure Limits  ACGIH - Occupational Exposure Limits  OEL TWA  20 ppm (Turpentine and selected Monoterpenes)  ACGIH - Occupational Exposure Limits  OEL TWA  20 ppm  Estonia - Occupational Exposure Limits  OEL TWA  150 mg/m² (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  30 mg/m² (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  30 mg/m² (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  30 mg/m² (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  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)  OEL STEL  300 mg/m² (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Caren			
Spain - Occupational Exposure Limits			
VLA-ED (OEL TWA) [1]  VLA-ED (OEL TWA) [2]  OEL chemical category  Sensilizer  Sweden - Occupational Exposure Limits  NGY (OEL TWA)  NGY (OEL STEL)  Sop pm  KTV (OEL STEL)  Sop pm  CEL chemical category  Sensilizer  Norway - Occupational Exposure Limits  Grenseverdi (OEL TWA) [1]  Grenseverdi (OEL TWA) [1]  Grenseverdi (OEL TWA) [2]  Sop pm  Korttidseverdi (OEL STEL)  Norway - Occupational Exposure Limits  ACGIH OEL STEL)  NGRI OCCUPATIONAL Exposure Limits  ACGIH OEL TWA [2]  ACGIH - Occupational Exposure Limits  ACGIH OEL TWA [2]  ACGIH - Occupational Exposure Limits  OEL TWA  Norway - Occupational Exposure Limits  OEL TWA  150 mg/m² (Turpentine and selected Monoterpenes)  ACGIH - Occupational Exposure Limits  OEL TWA  150 mg/m² (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  25 pm (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/m² (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  50 pm (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  50 pm (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  PRV (OEL TWA)  150 mg/m²  150 mg/m		Sensitizer dermal, A4 - Not Classifiable as a Human Carcinogen	
VLA-ED (OEL TWA) [2]  OEL chemical category  Sensitizer  Sweden - Occupational Exposure Limits  NGV (OEL TWA) [ppm]  KTV (OEL STEL) [ppm]  OEL chemical category  Sensitizer  Norway - Occupational Exposure Limits  Grenseverdi (OEL TRA) [1]  Grenseverdi (OEL TWA) [1]  Grenseverdi (OEL TWA) [1]  Grenseverdi (OEL TWA) [1]  Grenseverdi (OEL TWA) [2]  Sppm  Kortiddsverdi (OEL TWA) [2]  Sppm  Kortiddsverdi (OEL STEL) [ppm]  OEL chemical category  Skin notation  USA - ACGIH - Occupational Exposure Limits  ACGIH OEL TWA [ppm]  ACGIH chemical category  Not Classifiable as a Human Carcinogen, dermal sensitizer  DetaPinene (127-91-3)  Belgium - Occupational Exposure Limits  OEL TWA  OEL TWA  20 ppm  Estonia - Occupational Exposure Limits  OEL TWA  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/m² (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/m² (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  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)  OEL STEL  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)  OEL STEL  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)  OEL STEL  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)  OEL STEL  50 ppm (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Caren			
OEL chemical category Sensitizer  Sweden - Occupational Exposure Limits  NGV (OEL TWA) [ppm]		113 mg/m³	
Swedon - Occupational Exposure Limits  NGV (OEL TWA)   150 mg/m²   25 ppm  KTV (OEL STEL)   300 mg/m²   50 ppm  OEL chemical category   50 ppm  Korttidosverdi (OEL TWA) [1]   140 mg/m²   70 ppm   70	VLA-ED (OEL TWA) [2]	20 ppm	
NGV (OEL TWA)   150 mg/m³   25 ppm   25 ppm   KTV (OEL STEL)   300 mg/m³   KTV (OEL STEL)   300 mg/m³   KTV (OEL STEL)   50 ppm	OEL chemical category	Sensitizer	
NGV (OEL TWA) [ppm] 25 ppm  KTV (OEL STEL) 300 mg/m³  KTV (OEL STEL) [ppm] 50 ppm  OEL chemical category Sensitizer  Norway - Occupational Exposure Limits  Grenseverdi (OEL TWA) [1] 140 mg/m³  Grenseverdi (OEL TWA) [2] 25 ppm  Kortidiseverdi (OEL STEL) [ppm] 37.5 ppm (value calculated)  Kortidiseverdi (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 OEL TWA [ppm] 20 ppm (Turpentine and selected Monoterpenes)  ACGIH OEL TWA [ppm] 20 ppm (Turpentine and selected Monoterpenes)  Belgium - Occupational Exposure Limits  OEL TWA 20 ppm  Estonia - Occupational Exposure Limits  OEL TWA 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 TWA 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/m² (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 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)  OEL STEL 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)  PRV (OEL TWA) 150 mg/m³	Sweden - Occupational Exposure Limits		
KTV (OEL STEL) [ppm] 50 ppm  OEL chemical category Sensitizer  Norway - Occupational Exposure Limits  Grenseverdi (OEL TWA) [1] 140 mg/m²  Grenseverdi (OEL TWA) [2] 25 ppm  Kortidsverdi (OEL STEL) 175 mg/m² (value calculated)  Kortidsverdi (OEL STEL) 57,5 ppm (value calculated)  OEL chemical category Skin notation  USA - ACGIH - Occupational Exposure Limits  ACGIH OEL TWA [ppm] 20 ppm (Turpentine and selected Monoterpenes)  ACGIH OEL TWA [ppm] 20 ppm (Turpentine and selected Monoterpenes)  Belgium - Occupational Exposure Limits  OEL TWA 20 ppm  Estonia - Occupational Exposure Limits  OEL TWA 150 mg/m² (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 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/m² (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 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)  OEL STEL 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)  DEL STEL 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)  PRV (OEL TWA) [ppm] 25 ppm  TPRV (OEL TWA) [ppm] 25 ppm  TPRV (OEL TWA) [ppm] 25 ppm	NGV (OEL TWA)	150 mg/m³	
KTV (OEL STEL) [ppm] 50 ppm  OEL chemical category Sensitizer  Norway - Occupational Exposure Limits  Grenseverdi (OEL TWA) [1] 140 mg/m³  Grenseverdi (OEL TWA) [2] 25 ppm  Kortidsverdi (OEL STEL) 175 mg/m³ (value calculated)  Kortidsverdi (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 OEL TWA [ppm] 20 ppm (Turpentine and selected Monoterpenes)  Belgium - Occupational Exposure Limits  OEL TWA 20 ppm  Estonia - Occupational Exposure Limits  OEL TWA 150 mg/m³ (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 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/m³ (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 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)  OEL STEL 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) [ppm] 25 ppm  TPRV (OEL TWA) [ppm] 25 ppm  TPRV (OEL TWA) [ppm] 25 ppm	NGV (OEL TWA) [ppm]	25 ppm	
OEL chemical category  Norway - Occupational Exposure Limits  Grenseverdi (OEL TWA) [1] 140 mg/m³  Grenseverdi (OEL TWA) [2] 25 ppm  Korttidsverdi (OEL STEL) 175 mg/m³ (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  betaPinene (127-91-3)  Belgium - Occupational Exposure Limits  OEL TWA 20 ppm  Estonia - Occupational Exposure Limits  OEL TWA 150 mg/m³ (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 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/m³ (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 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)  OEL STEL 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)  OEL STEL 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)  OEL STEL 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)  OEL STEL 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)	KTV (OEL STEL)	300 mg/m³	
Norway - Occupational Exposure Limits  Grenseverdi (OEL TWA) [1]	KTV (OEL STEL) [ppm]	50 ppm	
Grenseverdi (OEL TWA) [1] 140 mg/m³ Grenseverdi (OEL TWA) [2] 25 ppm Korttidsverdi (OEL STEL) 175 mg/m³ (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 Classiffable as a Human Carcinogen, dermal sensitizer  betaPinene (127-91-3) Belgium - Occupational Exposure Limits  OEL TWA 20 ppm  Estonia - Occupational Exposure Limits  OEL TWA 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/m³ (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 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)  OEL STEL 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)  OEL STEL 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)  DEL STEL 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)  DEL STEL 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)  DEL STEL 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)	OEL chemical category	Sensitizer	
Grenseverdi (OEL TWA) [2] 25 ppm  Korttidsverdi (OEL STEL) 175 mg/m³ (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  DetaPinene (127-91-3)  Belgium - Occupational Exposure Limits  OEL TWA 20 ppm  Estonia - Occupational Exposure Limits  OEL TWA 150 mg/m³ (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 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/m³ (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 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)  OEL STEL 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)  DEL STEL 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)  DEL STEL 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)  DEL STEL 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)  DEL STEL 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)	Norway - Occupational Exposure Limits		
Korttidsverdi (OEL STEL)  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  .betaPinene (127-91-3)  Belgium - Occupational Exposure Limits  OEL TWA  20 ppm  Estonia - Occupational Exposure Limits  OEL TWA  150 mg/m² (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  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/m² (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  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)  OEL STEL  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)  DEL STEL  150 mg/m² (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect)  DEL STEL  150 mg/m²  IPRV (OEL TWA)  150 mg/m²  1PRV (OEL TWA)  150 mg/m²  1PRV (OEL TWA)  150 mg/m³	Grenseverdi (OEL TWA) [1]	140 mg/m³	
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  betaPinene (127-91-3)  Belgium - Occupational Exposure Limits  OEL TWA 20 ppm  Estonia - Occupational Exposure Limits  OEL TWA 150 mg/m³ (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 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/m³ (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 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/m³  IPRV (OEL TWA) 25 ppm  TPRV (OEL TWA) [ppm] 25 ppm  TPRV (OEL STEL) 300 mg/m³	Grenseverdi (OEL TWA) [2]	25 ppm	
DEL chemical category  USA - ACGIH - Occupational Exposure Limits  ACGIH OEL TWA [ppm]  ACGIH chemical category  Not Classifiable as a Human Carcinogen, dermal sensitizer  betaPinene (127-91-3)  Belgium - Occupational Exposure Limits  OEL TWA  20 ppm  Estonia - Occupational Exposure Limits  OEL TWA  150 mg/m³ (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/m³ (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  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)  OEL STEL  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/m³  IPRV (OEL TWA) [ppm]  25 ppm  TPRV (OEL STEL)  300 mg/m³	Korttidsverdi (OEL STEL)	175 mg/m³ (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  betaPinene (127-91-3)  Belgium - Occupational Exposure Limits  OEL TWA 20 ppm  Estonia - Occupational Exposure Limits  OEL TWA 150 mg/m³ (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 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/m³ (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 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)  OEL STEL 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/m³  IPRV (OEL TWA) [ppm] 25 ppm  TPRV (OEL TWA) [ppm] 25 ppm  TPRV (OEL STEL) 300 mg/m³	Korttidsverdi (OEL STEL) [ppm]	37,5 ppm (value calculated)	
ACGIH OEL TWA [ppm] 20 ppm (Turpentine and selected Monoterpenes)  ACGIH chemical category Not Classifiable as a Human Carcinogen, dermal sensitizer  .betaPinene (127-91-3)  Belgium - Occupational Exposure Limits  OEL TWA 20 ppm  Estonia - Occupational Exposure Limits  OEL TWA 150 mg/m³ (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 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/m³ (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 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/m³  IPRV (OEL TWA) [ppm] 25 ppm  TPRV (OEL STEL) 300 mg/m³	OEL chemical category	Skin notation	
ACGIH chemical category  Not Classifiable as a Human Carcinogen, dermal sensitizer    DetaPinene (127-91-3)	USA - ACGIH - Occupational Exposure Limits		
DetaPinene (127-91-3)   Belgium - Occupational Exposure Limits	ACGIH OEL TWA [ppm]	20 ppm (Turpentine and selected Monoterpenes)	
Belgium - Occupational Exposure Limits  OEL TWA 20 ppm  Estonia - Occupational Exposure Limits  OEL TWA 150 mg/m³ (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 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/m³ (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 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/m³  IPRV (OEL TWA) [ppm] 25 ppm  TPRV (OEL STEL) 300 mg/m³	ACGIH chemical category	Not Classifiable as a Human Carcinogen, dermal sensitizer	
DEL TWA  Estonia - Occupational Exposure Limits  OEL TWA  150 mg/m³ (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  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/m³ (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  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/m³  IPRV (OEL TWA) [ppm]  25 ppm  TPRV (OEL STEL)  300 mg/m³	.betaPinene (127-91-3)		
Estonia - Occupational Exposure Limits  OEL TWA  150 mg/m³ (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  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/m³ (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  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/m³  IPRV (OEL TWA) [ppm]  25 ppm  TPRV (OEL STEL)  300 mg/m³	Belgium - Occupational Exposure Limits		
OEL TWA  150 mg/m³ (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  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/m³ (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  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/m³  IPRV (OEL TWA) [ppm]  25 ppm  TPRV (OEL STEL)  300 mg/m³	OEL TWA	20 ppm	
monoterpenes, with the exception of 3-Carene, have a lesser effect)  OEL TWA  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/m³ (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  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/m³  IPRV (OEL TWA) [ppm]  25 ppm  TPRV (OEL STEL)  300 mg/m³	Estonia - Occupational Exposure Limits		
monoterpenes, with the exception of 3-Carene, have a lesser effect)  OEL STEL  300 mg/m³ (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  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/m³  IPRV (OEL TWA) [ppm]  25 ppm  TPRV (OEL STEL)  300 mg/m³	OEL TWA		
monoterpenes, with the exception of 3-Carene, have a lesser effect)  OEL STEL  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/m³  IPRV (OEL TWA) [ppm]  25 ppm  TPRV (OEL STEL)  300 mg/m³	OEL TWA		
monoterpenes, with the exception of 3-Carene, have a lesser effect)  Lithuania - Occupational Exposure Limits  IPRV (OEL TWA)	OEL STEL		
IPRV (OEL TWA)         150 mg/m³           IPRV (OEL TWA) [ppm]         25 ppm           TPRV (OEL STEL)         300 mg/m³	OEL STEL		
IPRV (OEL TWA) [ppm]         25 ppm           TPRV (OEL STEL)         300 mg/m³	Lithuania - Occupational Exposure Limits		
TPRV (OEL STEL)  300 mg/m³	IPRV (OEL TWA)	150 mg/m³	
	IPRV (OEL TWA) [ppm]	25 ppm	
TPRV (OEL STEL) [ppm] 50 ppm	TPRV (OEL STEL)	300 mg/m³	
	TPRV (OEL STEL) [ppm]	50 ppm	

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.betaPinene (127-91-3)		
Portugal - Occupational Exposure Limits		
OEL TWA	20 ppm (Turpentine and selected Monoterpenes)	
OEL chemical category	Sensitizer dermal, A4 - Not Classifiable as a Human Carcinogen	
Spain - Occupational Exposure Limits		
VLA-ED (OEL TWA) [1]	113 mg/m³	
VLA-ED (OEL TWA) [2]	20 ppm	
OEL chemical category	Sensitizer	
Sweden - Occupational Exposure Limits		
NGV (OEL TWA)	150 mg/m³	
NGV (OEL TWA) [ppm]	25 ppm	
KTV (OEL STEL)	300 mg/m³	
KTV (OEL STEL) [ppm]	50 ppm	
OEL chemical category	Sensitizer	
Norway - Occupational Exposure Limits		
Grenseverdi (OEL TWA) [1]	140 mg/m³	
Grenseverdi (OEL TWA) [2]	25 ppm	
Korttidsverdi (OEL STEL)	175 mg/m³ (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	

#### 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):







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#### 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:

Protective gloves. Wear protective gloves.

#### 8.2.2.3. Respiratory protection

#### Respiratory protection:

[In case of inadequate ventilation] wear 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.

Odour : characteristic. characteristic.

Odour threshold Not available Melting point : Not applicable Freezing point : Not available Boiling point : Not available Flammability : Not applicable : Not available Lower explosion limit Upper explosion limit : Not available Flash point : > 93 °C Auto-ignition temperature : Not available Decomposition temperature : Not available рΗ : Not available : Not available Viscosity, kinematic Solubility : Not available : Not available Partition coefficient n-octanol/water (Log Kow) : Not available Vapour pressure Vapour pressure at 50°C : Not available Density : Not available Relative density : ≈ 1,05 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

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# **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

Stable under normal conditions. Not established.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Not established.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7). Direct sunlight. Extremely high or low temperatures.

#### 10.5. Incompatible materials

Strong acids. Strong bases.

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. 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) : Harmful if swallowed.

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

Acute toxicity (inhalation)	Not classified	
OUD & WOOD #EU42766F		
ATE CLP (oral)	924,737 mg/kg bodyweight	
benzyl benzoate (120-51-4)		
LD50 oral rat	500 mg/kg (Source: NLM_CIP)	
LD50 oral	1160 mg/kg bodyweight	
LD50 dermal rabbit	4000 mg/kg (Source: NLM_CIP)	
Patchouli oil (8014-09-3)		
LD50 oral rat	> 5 g/kg (Source: NLM_CIP)	
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethyllin	ndeno[5,6-c]pyran; galaxolide; (HHCB) (1222-05-5)	
LD50 oral rat	> 3250 mg/kg (Source: CHEMVIEW)	
LD50 dermal rabbit	> 3250 mg/kg (Source: CHEMVIEW)	
Ethylene brassylate (105-95-3)		
LD50 oral rat	> 5000 mg/kg (Source: ECHA)	
LD50 dermal rabbit	> 5000 mg/kg (Source: ECHA)	
Amyl cinnamic aldehyde (122-40-7)		
LD50 oral rat	3730 mg/kg (Source: CHEMVIEW)	
LD50 dermal rabbit	> 2000 mg/kg (Source: CHEMVIEW)	
Vertenex (32210-23-4)		
LD50 oral rat	5 g/kg (Source: NLM_CIP)	

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Vertenex (32210-23-4)	
LD50 oral	3370 mg/kg bodyweight
LD50 dermal rabbit	> 5000 mg/kg (Source: CHEMVIEW)
Vertofix (32388-55-9)	
LD50 oral	4500 mg/kg bodyweight
LD50 dermal rabbit	> 5000 mg/kg (Source: ECHA_API)
benzyl alcohol (100-51-6)	
LD50 oral rat	1230 mg/kg (Source: NLM_CIP)
LD50 oral	1620 mg/kg bodyweight
LD50 dermal	2500 mg/kg bodyweight
Bergamot oil (8007-75-8)	
LD50 oral rat	11520 mg/kg (Source: NLM_CIP)
Eugenol (97-53-0)	
LD50 oral rat	1930 mg/kg (Source: NZ_CCID)
LD50 oral	2500 mg/kg bodyweight
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mix	ed isomers (cis and trans) (63500-71-0)
LD50 dermal rabbit	> 2000 mg/kg (Source: ECHA_API)
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_HPV)
LD50 dermal	1100 mg/kg bodyweight
Benzyl acetate (140-11-4)	
LD50 oral rat	2490 mg/kg (Source: JAPAN_GHS)
LD50 oral	2490 mg/kg bodyweight
LD50 dermal rabbit	> 5000 mg/kg (Source: JAPAN_GHS)
Camphor (76-22-2)	
LD50 oral	1500 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg (Source: ECHA_API)
LC50 Inhalation - Rat (Dust/Mist)	1,5 mg/l/4h
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)
Diethyl malonate (105-53-3)	
LD50 oral rat	14900 μl/kg (Source: NLM_CIP)
LD50 dermal rabbit	> 16960 mg/kg (Source: ECHA_API)

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Linalyl acetate (115-95-7)	
LD50 oral rat	14550 mg/kg (Source: EPA_HPV)
LD50 dermal rabbit	> 5000 mg/kg (Source: EPA_HPV)
Heliotropine (120-57-0)	
LD50 oral rat	2700 mg/kg (Source: NLM_CIP)
LD50 oral	2700 mg/kg bodyweight
LD50 dermal rat	> 5000 mg/kg (Source: ECHA_API)
Aldehyde C-16 (77-83-8)	
LD50 oral rat	5470 mg/kg (Source: NLM_CIP)
LD50 dermal rat	> 2000 mg/kg (Source: ECHA_API)
Eucalyptus oil (8000-48-4)	
LD50 oral rat	2480 mg/kg (Source: NLM_CIP)
Linalool (78-70-6)	
LD50 oral	2790 mg/kg bodyweight
(R)-p-mentha-1,8-diene; d-limonene (5989-27-	5)
LD50 oral rat	4400 mg/kg (Source: CHEMVIEW)
LD50 dermal rabbit	> 5 g/kg (Source: CHEMVIEW)
.alphaPinene (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)
.betaPinene (127-91-3)	
LD50 oral rat	> 5000 mg/kg (Source: EPA_HPV)
LD50 dermal rabbit	> 5000 mg/kg (Source: CHEMVIEW)
	Causes skin irritation.
-	Causes serious eye irritation.
·	May cause an allergic skin reaction.  Not classified
	Not classified
Eugenol (97-53-0)	
IARC group	3 - Not classifiable
Benzyl acetate (140-11-4)	
IARC group	3 - Not classifiable
COUMARIN (91-64-5)	
IARC group	3 - Not classifiable
(R)-p-mentha-1,8-diene; d-limonene (5989-27-	5)
IARC group	3 - Not classifiable
Reproductive toxicity :	Not classified
STOT-single exposure :	Not classified

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Camphor (76-22-2)	
STOT-single exposure	May cause damage to organs.
STOT-repeated exposure :	Not classified
Aspiration hazard :	Not classified
benzyl benzoate (120-51-4)	
Viscosity, kinematic	7,456 mm²/s
Heliotropine (120-57-0)	
Viscosity, kinematic	Not applicable

# 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

: Toxic to aquatic life with long lasting effects. Very toxic to aquatic life. Ecology - general

Hazardous to the aquatic environment, short-term : Very toxic to aquatic life.

(acute)

Hazardous to the aquatic environment, long-term : Toxic to aquatic life with long lasting effects.

(chronic)		
benzyl benzoate (120-51-4)		
LC50 - Fish [1]	2,32 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static] Source: ECHA)	
NOEC (chronic)	0,168 mg/l	
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethyllin	ndeno[5,6-c]pyran; galaxolide; (HHCB) (1222-05-5)	
LC50 - Fish [1]	0,452 mg/l Wolf, 1996d-27682	
LC50 - Other aquatic organisms [1]	> 0,14 mg/l REACH DOSSIER Pimephales promelas	
EC50 - Crustacea [2]	260 μg/l REACH Dossier	
EC50 - Other aquatic organisms [1] 0,131 mg/l REACH Dossier		
Vertenex (32210-23-4)		
LC50 - Fish [1]	8,6 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static] Source: ECHA)	
benzyl alcohol (100-51-6)		
LC50 - Fish [1]	460 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: EPA)	
LC50 - Fish [2]	10 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: EPA)	
EC50 - Crustacea [1] 23 mg/l (Exposure time: 48 h - Species: water flea)		
Eugenol (97-53-0)		
LC50 - Fish [1]	13 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static] Source: ECHA)	
Diethyl malonate (105-53-3)		
LC50 - Fish [1]	10,3 – 13,4 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)	

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Diethyl malonate (105-53-3)   EC50 - Chistacea [1]   202.3 mg/l (Exposure time: 48 h - Species: Daphnia magna)			
EC50 72h - Algae [1] 508.2 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [flow-through] Source: ECHA)  Heliotropine (120-57-0)  LC50 - Fish [1] 2.5 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [static] Source: ECHA)  Aldehyde C-16 (77-83-8)  LC50 - Fish [1] 4.2 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [static] Source: ECHA)  Aldehyde C-16 (77-83-8)  LC50 - Fish [1] 4.2 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static] Source: ECHA)  Linatool (78-70-6)  EC50 96h - Algae [1] 88.3 mg/l (Species: Desmodesmus subspicatus)  (R)-p-montha-1,8-diene; d-limonene (5989-27-5)  LC50 - Fish [1] 0,619 - 0,796 mg/l (Exposure time: 96 h - Species: Pimephales prometas [flow-through] Source: EFA)  LC50 - Fish [2] 35 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: EPA)  alphaPinene (80-56-8)  LC50 - Fish [1] 0,28 mg/l (Exposure time: 96 h - Species: Desmodesmus subspicatus)  12.2. Persistence and degradability  OUD & WOOD #EU42766F  Persistence and degradability Not established.  Denzyl benzoate (120-51-4)  Persistence and degradability Not established.  Eucalyptus oil (8000-48-4)  Persistence and degradability Not established.  Denzyl benzoate (120-51-4)  Partition coefficient n-octanol/water (Log Pow) 3,97 (at 25 °C)	Diethyl malonate (105-53-3)		
Linalyl acetate (115-95-7)  LC50 - Fish [1]	EC50 - Crustacea [1]	202,3 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
LC50 - Fish [1]	EC50 72h - Algae [1]	508,2 mg/l (Species: Desmodesmus subspicatus)	
Heliotropine (120-57-0)  LC50 - Fish [1] 2,5 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [static] Source: ECHA)  Aldehyde C-16 (77-83-8)  LC50 - Fish [1] 4.2 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static] Source: ECHA)  Linatool (78-70-6)  EC50 96h - Algae [1] 88,3 mg/l (Species: Desmodesmus subspicatus)  ((R)-p-mentha-1,8-diene; d-limonene (5989-27-5)  LC50 - Fish [1] 0,619 - 0,796 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)  LC50 - Fish [2] 35 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: EPA)  alpha-Pinene (80-56-8)  LC50 - Fish [1] 0,28 mg/l (Exposure time: 96 h - Species: Dimephales promelas [static] Source: IUCLID)  EC50 - Crustacea [1] 41 mg/l (Exposure time: 96 h - Species: Daphnia magna)  12.2. Persistence and degradability  OUD & WOOD #EU42766F  Persistence and degradability Not established.  benzyl benzoate (120-51-4)  Persistence and degradability Not established.  Eucalyptus oil (8000-48-4)  Persistence and degradability Not established.  DUB & WOOD #EU42766F  Bioaccumulative potential Not established.  Benzyl benzoate (120-51-4)  Partition coefficient n-octanol/water (Log Pow) 3,97 (st 25 °C)	Linalyl acetate (115-95-7)		
LC50 - Fish [1] 2,5 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [static] Source: ECHA)  Aldehyde C-16 (77-83-8)  LC50 - Fish [1] 4,2 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static] Source: ECHA)  Linalool (78-70-6)  EC50 96h - Algae [1] 88,3 mg/l (Species: Desmodesmus subspicatus)  (R)-p-mentha-1,8-diene; d-limonene (5989-27-5)  LC50 - Fish [1] 0,619 - 0,796 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)  LC50 - Fish [2] 35 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: EPA)  alphaPinene (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)  12.2. Persistence and degradability  OUD & WOOD #EU42766F  Persistence and degradability Not established.  benzyl benzoate (120-51-4)  Persistence and degradability Not established.  Eucalyptus oil (8000-48-4)  Persistence and degradability Not established.  Eucalyptus oil (8000-48-4)  Persistence and degradability Not established.  12.3. Bioaccumulative potential Not established.  benzyl benzoate (120-51-4)  Partition coefficient n-octanol/water (Log Pow) 3,97 (at 25 °C)	LC50 - Fish [1]	11 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [flow-through] Source: ECHA)	
Aldehyde C-16 (77-83-8)  LC50 - Fish [1]	Heliotropine (120-57-0)		
LCS0 - Fish [1]	LC50 - Fish [1]	2,5 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [static] Source: ECHA)	
ECHA)  Linalool (78-70-6)  ECS0 96h - Algae [1] 88.3 mg/l (Species: Desmodesmus subspicatus)  (R)-p-mentha-1,8-diene; d-limonene (5989-27-5)  LC50 - Fish [1] 0.619 – 0.796 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)  LC50 - Fish [2] 35 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: EPA)  alphaPinene (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: 96 h - Species: Daphnia magna)  12.2. Persistence and degradability  OUD & WOOD #EU42766F  Persistence and degradability Not established.  benzyl benzoate (120-51-4)  Persistence and degradability Not established.  Eucalyptus oil (8000-48-4)  Persistence and degradability Not established.  12.3. Bloaccumulative potential  OUD & WOOD #EU42766F  Bioaccumulative potential  Not established.  benzyl benzoate (120-51-4)  Partition coefficient n-octanol/water (Log Pow) 3,97 (at 25 °C)	Aldehyde C-16 (77-83-8)		
ECS0 96h - Algae [1] 88,3 mg/l (Species: Desmodesmus subspicatus)  (R)-p-mentha-1,8-diene; d-limonene (5989-27-5)  LC50 - Fish [1] 0,619 - 0,796 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)  LC50 - Fish [2] 35 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: EPA)  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)  12.2. Persistence and degradability  OUD & WOOD #EU42766F  Persistence and degradability Not established.  benzyl benzoate (120-51-4)  Persistence and degradability Not established.  Cedarwood oil, Texas (68990-83-0)  Persistence and degradability Not established.  Eucalyptus oil (8000-48-4)  Persistence and degradability Not established.  12.3. Bloaccumulative potential  OUD & WOOD #EU42766F  Bioaccumulative potential  Not established.  benzyl benzoate (120-51-4)  Partition coefficient n-octanol/water (Log Pow) 3,97 (at 25 °C)	LC50 - Fish [1]		
(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)  LC50 - Fish [1]	Linalool (78-70-6)		
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)  .alphaPinene (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)  12.2. Persistence and degradability  OUD & WOOD #EU42766F  Persistence and degradability  Not established.  benzyl benzoate (120-51-4)  Persistence and degradability  Not established.  Eucalyptus oil (8000-48-4)  Persistence and degradability  Not established.  12.3. Bioaccumulative potential  OUD & WOOD #EU42766F  Bioaccumulative potential  Not established.  benzyl benzoate (120-51-4)  Partition coefficient n-octanol/water (Log Pow)  3,97 (at 25 °C)	EC50 96h - Algae [1]	88,3 mg/l (Species: Desmodesmus subspicatus)	
Source: EPA)  LC50 - Fish [2] 35 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: EPA)  .alphaPinene (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)  12.2. Persistence and degradability  OUD & WOOD #EU42766F  Persistence and degradability Not established.  benzyl benzoate (120-51-4)  Persistence and degradability May cause long-term adverse effects in the environment.  Cedarwood oil, Texas (68990-83-0)  Persistence and degradability Not established.  Eucalyptus oil (8000-48-4)  Persistence and degradability Not established.  12.3. Bioaccumulative potential  OUD & WOOD #EU42766F  Bioaccumulative potential  Not established.  benzyl benzoate (120-51-4)  Partition coefficient n-octanol/water (Log Pow) 3,97 (at 25 °C)	(R)-p-mentha-1,8-diene; d-limonene (5989-27-	5)	
.alphaPinene (80-56-8)  LC50 - Fish [1]	LC50 - Fish [1]		
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)  12.2. Persistence and degradability  OUD & WOOD #EU42766F  Persistence and degradability Not established.  benzyl benzoate (120-51-4)  Persistence and degradability May cause long-term adverse effects in the environment.  Cedarwood oil, Texas (68990-83-0)  Persistence and degradability Not established.  Eucalyptus oil (8000-48-4)  Persistence and degradability Not established.  12.3. Bioaccumulative potential  OUD & WOOD #EU42766F  Bioaccumulative potential Not established.  benzyl benzoate (120-51-4)  Partition coefficient n-octanol/water (Log Pow) 3,97 (at 25 °C)	LC50 - Fish [2]	35 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: EPA)	
### 1 mg/l (Exposure time: 48 h - Species: Daphnia magna)  12.2. Persistence and degradability  OUD & WOOD #EU42766F  Persistence and degradability Not established.  benzyl benzoate (120-51-4)  Persistence and degradability May cause long-term adverse effects in the environment.  Cedarwood oil, Texas (68990-83-0)  Persistence and degradability Not established.  Eucalyptus oil (8000-48-4)  Persistence and degradability Not established.  12.3. Bioaccumulative potential  OUD & WOOD #EU42766F  Bioaccumulative potential Not established.  benzyl benzoate (120-51-4)  Partition coefficient n-octanol/water (Log Pow) 3,97 (at 25 °C)	.alphaPinene (80-56-8)		
12.2. Persistence and degradability  OUD & WOOD #EU42766F  Persistence and degradability Not established.  benzyl benzoate (120-51-4)  Persistence and degradability May cause long-term adverse effects in the environment.  Cedarwood oil, Texas (68990-83-0)  Persistence and degradability Not established.  Eucalyptus oil (8000-48-4)  Persistence and degradability Not established.  12.3. Bioaccumulative potential  OUD & WOOD #EU42766F  Bioaccumulative potential Not established.  benzyl benzoate (120-51-4)  Partition coefficient n-octanol/water (Log Pow) 3,97 (at 25 °C)	LC50 - Fish [1]	0,28 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: IUCLID)	
OUD & WOOD #EU42766F Persistence and degradability Not established.  benzyl benzoate (120-51-4) Persistence and degradability May cause long-term adverse effects in the environment.  Cedarwood oil, Texas (68990-83-0) Persistence and degradability Not established.  Eucalyptus oil (8000-48-4) Persistence and degradability Not established.  12.3. Bioaccumulative potential  OUD & WOOD #EU42766F Bioaccumulative potential Not established.  benzyl benzoate (120-51-4) Partition coefficient n-octanol/water (Log Pow) 3,97 (at 25 °C)	EC50 - Crustacea [1]	41 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
Persistence and degradability  benzyl benzoate (120-51-4)  Persistence and degradability  May cause long-term adverse effects in the environment.  Cedarwood oil, Texas (68990-83-0)  Persistence and degradability  Not established.  Eucalyptus oil (8000-48-4)  Persistence and degradability  Not established.  12.3. Bioaccumulative potential  OUD & WOOD #EU42766F  Bioaccumulative potential  Not established.  benzyl benzoate (120-51-4)  Partition coefficient n-octanol/water (Log Pow)  3,97 (at 25 °C)	12.2. Persistence and degradability		
benzyl benzoate (120-51-4)  Persistence and degradability May cause long-term adverse effects in the environment.  Cedarwood oil, Texas (68990-83-0)  Persistence and degradability Not established.  Eucalyptus oil (8000-48-4)  Persistence and degradability Not established.  12.3. Bioaccumulative potential  OUD & WOOD #EU42766F  Bioaccumulative potential Not established.  benzyl benzoate (120-51-4)  Partition coefficient n-octanol/water (Log Pow) 3,97 (at 25 °C)	OUD & WOOD #EU42766F		
Persistence and degradability  May cause long-term adverse effects in the environment.  Cedarwood oil, Texas (68990-83-0)  Persistence and degradability  Not established.  Eucalyptus oil (8000-48-4)  Persistence and degradability  Not established.  12.3. Bioaccumulative potential  OUD & WOOD #EU42766F  Bioaccumulative potential  Not established.  benzyl benzoate (120-51-4)  Partition coefficient n-octanol/water (Log Pow)  3,97 (at 25 °C)	Persistence and degradability	Not established.	
Cedarwood oil, Texas (68990-83-0)  Persistence and degradability Not established.  Eucalyptus oil (8000-48-4)  Persistence and degradability Not established.  12.3. Bioaccumulative potential  OUD & WOOD #EU42766F  Bioaccumulative potential Not established.  benzyl benzoate (120-51-4)  Partition coefficient n-octanol/water (Log Pow) 3,97 (at 25 °C)	benzyl benzoate (120-51-4)		
Persistence and degradability  Not established.  Eucalyptus oil (8000-48-4)  Persistence and degradability  Not established.  12.3. Bioaccumulative potential  OUD & WOOD #EU42766F  Bioaccumulative potential  Not established.  benzyl benzoate (120-51-4)  Partition coefficient n-octanol/water (Log Pow)  3,97 (at 25 °C)	Persistence and degradability	May cause long-term adverse effects in the environment.	
Eucalyptus oil (8000-48-4)  Persistence and degradability  Not established.  12.3. Bioaccumulative potential  OUD & WOOD #EU42766F  Bioaccumulative potential  Not established.  benzyl benzoate (120-51-4)  Partition coefficient n-octanol/water (Log Pow)  3,97 (at 25 °C)	Cedarwood oil, Texas (68990-83-0)		
Persistence and degradability  12.3. Bioaccumulative potential  OUD & WOOD #EU42766F  Bioaccumulative potential  Not established.  benzyl benzoate (120-51-4)  Partition coefficient n-octanol/water (Log Pow)  3,97 (at 25 °C)	Persistence and degradability	Not established.	
12.3. Bioaccumulative potential  OUD & WOOD #EU42766F  Bioaccumulative potential  Not established.  benzyl benzoate (120-51-4)  Partition coefficient n-octanol/water (Log Pow)  3,97 (at 25 °C)	Eucalyptus oil (8000-48-4)		
OUD & WOOD #EU42766F  Bioaccumulative potential Not established.  benzyl benzoate (120-51-4)  Partition coefficient n-octanol/water (Log Pow) 3,97 (at 25 °C)	Persistence and degradability	Not established.	
Bioaccumulative potential  Not established.  benzyl benzoate (120-51-4)  Partition coefficient n-octanol/water (Log Pow)  3,97 (at 25 °C)	12.3. Bioaccumulative potential		
benzyl benzoate (120-51-4)  Partition coefficient n-octanol/water (Log Pow)  3,97 (at 25 °C)	OUD & WOOD #EU42766F		
Partition coefficient n-octanol/water (Log Pow) 3,97 (at 25 °C)	Bioaccumulative potential	Not established.	
	benzyl benzoate (120-51-4)		
	Partition coefficient n-octanol/water (Log Pow)	3,97 (at 25 °C)	
Bioaccumulative potential Not established.	Bioaccumulative potential	Not established.	
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide; (HHCB) (1222-05-5)			
199, 199, 19 Horard 1,-199, 199, 199, 199, 199, 199, 199, 1	BCF - Fish [1]	(1618 dimensionless (whole body w.w.)	
	Partition coefficient n-octanol/water (Log Pow)	5,3 (at 25 °C (at pH 7)	

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Ethylene brassylate (105-95-3)		
Partition coefficient n-octanol/water (Log Pow)	4,3 (at 25 °C (at pH 6.4-7)	
Amyl cinnamic aldehyde (122-40-7)		
Partition coefficient n-octanol/water (Log Pow)	2,498 (at 25 °C (at pH 6.2)	
Vertenex (32210-23-4)		
Partition coefficient n-octanol/water (Log Pow)	4,8 (at 25 °C)	
Vertofix (32388-55-9)		
BCF - Fish [1]	(3920 dimensionless (organ w.w.)	
Partition coefficient n-octanol/water (Log Pow)	5,6 – 5,9	
benzyl alcohol (100-51-6)		
Partition coefficient n-octanol/water (Log Pow)	1,05	
Eugenol (97-53-0)		
Partition coefficient n-octanol/water (Log Pow)	1,83 (at 30 °C (at pH 5.5)	
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mix	ed isomers (cis and trans) (63500-71-0)	
Partition coefficient n-octanol/water (Log Pow)	1,65 (at 23 °C (at pH >6.09-<6.74)	
Cinnamic aldehyde (104-55-2)		
Partition coefficient n-octanol/water (Log Pow)	2,1065 (at 25 °C)	
Benzyl acetate (140-11-4)		
Partition coefficient n-octanol/water (Log Pow)	1,96 (at 25 °C (at pH 7)	
Cedarwood oil, Texas (68990-83-0)		
Bioaccumulative potential	Not established.	
Camphor (76-22-2)		
Partition coefficient n-octanol/water (Log Pow)	2,414 (at 25 °C)	
Diethyl malonate (105-53-3)		
Partition coefficient n-octanol/water (Log Pow)	0,96	
Linalyl acetate (115-95-7)		
Partition coefficient n-octanol/water (Log Pow)	3,9 (at 25 °C)	
Heliotropine (120-57-0)		
Partition coefficient n-octanol/water (Log Pow)	1,2 (at 35 °C)	
Aldehyde C-16 (77-83-8)		
Partition coefficient n-octanol/water (Log Pow)	2,4 (at 25 °C (cis isomer)	
Eucalyptus oil (8000-48-4)		
Bioaccumulative potential	Not established.	
beta-Caryophyllene (87-44-5)		
Partition coefficient n-octanol/water (Log Pow)	6,23 (at 25 °C (at pH 7)	
(R)-p-mentha-1,8-diene; d-limonene (5989-27-	5)	
Partition coefficient n-octanol/water (Log Pow)	4,38 (at 37 °C (at pH 7.2)	

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.alphaPinene (80-56-8)	
Partition coefficient n-octanol/water (Log Pow)	4,1

#### 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
Product/Packaging disposal recommendations
Ecology - waste materials
HP Code

- : Dispose of contents/container in accordance with licensed collector's sorting instructions.
- : Dispose in a safe manner in accordance with local/national regulations.
- : Avoid release to the environment.
- : HP3 "Flammable:"
  - 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  $^{\circ}\text{C}$  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.
  - HP6 "Acute Toxicity:" waste which can cause acute toxic effects following oral or dermal administration, or inhalation exposure.
  - 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 n	umber			
UN 3082	UN 3082	UN 3082	UN 3082	UN 3082
14.2. UN proper shippin	g name			
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ISO E SUPER)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ISO E SUPER)	Environmentally hazardous substance, liquid, n.o.s. (ISO E SUPER)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ISO E SUPER)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ISO E SUPER)

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ADR	IMDG	IATA	ADN	RID
Transport document descr	iption			
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ISO E SUPER), 9, III, (-)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ISO E SUPER), 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (ISO E SUPER), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ISO E SUPER), 9,	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ISO E SUPER), 9,
14.3. Transport hazard	class(es)			
9	9	9	9	9
**************************************	**************************************	**************************************	**************************************	**************************************
14.4. Packing group				
III	III	III	III	III
14.5. Environmental haz	ards			
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes
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) : 5l 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 : TP1, TP29

(ADR)

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 : CV13

and handling (ADR)

Hazard identification number (Kemler No.) : 90

Orange plates : T

90 3082

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

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Tank instructions (IMDG) : T4
Tank special provisions (IMDG) : TP1, TP29
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-F
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
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

Classification code (RID) : M6

Special provisions (RID) : 274, 335, 375, 601

Limited quantities (RID) : 5L Excepted quantities (RID) : E1

Packing instructions (RID) : P001, IBC03, LP01, R001

Special packing provisions (RID) : PP1
Mixed packing provisions (RID) : MP19
Portable tank and bulk container instructions (RID) : T4
Portable tank and bulk container special provisions : TP1, TP29

(RID)

Tank codes for RID tanks (RID) : LGBV

Transport category (RID) : 3

Special provisions for carriage – Packages (RID) : W12

Special provisions for carriage - Loading, unloading : CW13, CW31

and handling (RID)

Colis express (express parcels) (RID) : CE8
Hazard identification number (RID) : 90

## 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

# Safety Data Sheet

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

## **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)	Bergamot oil; Eucalyptus oil; (R)-p-mentha-1,8- diene; d-limonene; .alphaPinene; .beta Pinene	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F
3(b)	OUD & WOOD #EU42766F; benzyl benzoate; Iso E Super; Patchouli oil; Amyl cinnamic aldehyde; Vertenex; Vertofix; benzyl alcohol; Bergamot oil; Eugenol; tetrahydro- 2-isobutyl-4-methylpyran- 4-ol, mixed isomers (cis and trans); Cinnamic aldehyde; Cedarwood oil, Texas; Diethyl malonate; Linalyl acetate; Aldehyde C-16; Eucalyptus oil; Linalool; (R)-p-mentha- 1,8-diene; d-limonene	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard 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)	OUD & WOOD #EU42766F; benzyl benzoate; Iso E Super; Patchouli oil; 1,3,4,6,7,8- hexahydro-4,6,6,7,8,8- hexamethylindeno[5,6- c]pyran; galaxolide; (HHCB); Ethylene brassylate; Amyl cinnamic aldehyde; Vertofix; Bergamot oil; Cinnamic aldehyde; Benzyl acetate; Cedarwood oil, Texas; Aldehyde C-16; Eucalyptus oil; (R)-p- mentha-1,8-diene; d- limonene	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1
40.	Bergamot oil; Camphor; Eucalyptus oil; (R)-p- mentha-1,8-diene; d- limonene; .alphaPinene ; .betaPinene	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

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#### **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

#### 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 3, Highly 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(1) - highly toxic for aquatic organisms, may have longterm hazardous effects in aquatic

environment

SZW-lijst van kankerverwekkende stoffen : Bergamot oil, Cedarwood oil, Texas, Eucalyptus oil are listed

SZW-lijst van mutagene stoffen : Bergamot oil,Eucalyptus oil are listed SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed

SZW-lijst van reprotoxische stoffen – Solstvoeding : None of the components are listed

Vruchtbaarheid

SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed

Denmark

Classification remarks : Emergency management guidelines for the storage of flammable liquids must be followed

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product

Pregnant/breastfeeding women working with the product must not be in direct contact with

the product

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## **SECTION 16: Other information**

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

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Abbreviations and acronyms:		
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.

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 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Flam. Sol. 2	Flammable solids, Category 2
H226	Flammable liquid and vapour.

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Full text of H- and EUH-statements:		
H228	Flammable solid.	
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.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
H331	Toxic if inhaled.	
H332	Harmful if inhaled.	
H371	May cause damage to organs.	
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	
H411	Toxic to aquatic life with long lasting effects.	
H412	Harmful to aquatic life with long lasting effects.	
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 2	Specific target organ toxicity – Single exposure, Category 2	

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.