Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: $5/22/2023\,$ Version: 1.0



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

1.1. Product identifier

Product form	: Mixture
Trade name	: SILVER BIRCH & BALSAM
UFI	: 1FPT-S98M-E002-SDVS
Product code	: CC-16379
Type of product	: Perfumes, fragrances
Product group	: Trade product

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

1.2.1. Relevant identified uses

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

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

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

1.4. Emergency telephone number

Emergency number

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture		
Classification according to Regulation (EC) No. 1272/2008 [CLP]		
Skin corrosion/irritation, Category 2	H315	
Serious eye damage/eye irritation, Category 2	H319	
Skin sensitisation, Category 1	H317	
Aspiration hazard, Category 1	H304	
Hazardous to the aquatic environment – Chronic Hazard, Category 3	H412	

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

Adverse physicochemical, human health and environmental effects

Causes skin irritation. Causes serious eye irritation. May be fatal if swallowed and enters airways. Harmful to aquatic life with long lasting effects. May cause an allergic skin reaction.

2.2. Label elements

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

Hazard pictograms (CLP)



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Signal word (CLP)	: Danger
Contains	: Cinnamic aldehyde; Pine Needle Oil ; Vertenex; d-Limonene; Triplal (Vertocitral); Eucalyptus oil: Aldehyde C-12
Hazard statements (CLP)	 H304 - May be fatal if swallowed and enters airways. H315 - Causes skin irritation.
	H317 - May cause an allergic skin reaction.
	H319 - Causes serious eye irritation.
	H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements (CLP)	: P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
	P264 - Wash hands, forearms and face thoroughly after handling.
	P272 - Contaminated work clothing should not be allowed out of the workplace. P273 - Avoid release to the environment.
	P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
	P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.
Extra phrases	: For professional users only.

2.3. Other hazards

Contains no PBT/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]
Cinnamic aldehyde	CAS-No.: 104-55-2 EC-No.: 203-213-9 REACH-no: 01-2119935242- 45	5.8 – 11.66	Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412
Pine Needle Oil	CAS-No.: 8002-09-3 EC-No.: 306-895-7	4.6 – 9.23	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Verdox	CAS-No.: 88-41-5 EC-No.: 201-828-7 REACH-no: 01-2119970713- 33	1.2 – 2.43	Aquatic Chronic 2, H411
Vertenex	CAS-No.: 32210-23-4 EC-No.: 250-954-9 REACH-no: 01-2119976286- 24	1.2 – 2.43	Skin Sens. 1B, H317

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
d-Limonene substance with national workplace exposure limit(s) (DE, ES, FI, SI, NO, CH)	CAS-No.: 5989-27-5 EC-No.: 227-813-5 EC Index-No.: 601-029-00- 7;601-096-00-2 REACH-no: 01-2119493353- 35	0.7 – 1.46	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 3, H412
Triplal (Vertocitral)	CAS-No.: 68039-49-6 EC-No.: 268-264-1	0.2 – 0.49	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412
Eucalyptus oil	CAS-No.: 8000-48-4 EC-No.: 283-406-2;286-249- 8;616-775-9 REACH-no: 01-2119978250- 37	0.2 – 0.49	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Benzyl benzoate	CAS-No.: 120-51-4 EC-No.: 204-402-9 EC Index-No.: 607-085-00-9 REACH-no: 01-2119976371- 33	0.2 – 0.342	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Allyl amyl glycolate	CAS-No.: 67634-00-8 EC-No.: 266-803-5	0.1 – 0.19	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Acute Tox. 2 (Inhalation), H330
Aldehyde C-12	CAS-No.: 112-54-9 EC-No.: 203-983-6	0.1 – 0.1	Eye Irrit. 2, H319 Skin Irrit. 2, H315 Skin Sens. 1B, H317
.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 – 0.00627	Flam. Liq. 3, H226
.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 – 0.00114	Flam. Liq. 3, H226
Dipentene substance with national workplace exposure limit(s) (EE, LT, SE, NO)	CAS-No.: 138-86-3	0 – 0.00019	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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

SECTION 4: First aid measures

4.1. Description of first aid measures	
First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). Call a physician immediately.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	 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.

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First-aid measures after eye contact First-aid measures after ingestion	 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. Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Do not induce
4.2. Most important symptoms and effects	vomiting. Call a physician immediately.
4.2. Most important symptoms and effects,	both acute and delayed
Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Eye irritation.
Symptoms/effects after ingestion	: Risk of lung oedema.

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 Unsuitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand. : Do not use a heavy water stream.	
5.2. Special hazards arising from the substance or mixture		
Hazardous decomposition products in case of fire	: Toxic fumes may be released.	
5.3. Advice for firefighters		
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.	
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.	

SECTION 6: Accidental release measures			
6.1. Personal precautions, protective	equipment and emergency procedures		
6.1.1. For non-emergency personnel			
Emergency procedures	: Ventilate spillage area. Evacuate unnecessary personnel. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.		
6.1.2. For emergency responders			
Protective equipment	: Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".		
Emergency procedures	: Ventilate area.		
6.2. Environmental precautions			

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

6.3. Methods and material for containment and cleaning up		
Methods for cleaning up	: Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.	
Other information	: Dispose of materials or solid residues at an authorized site.	
6.4. Reference to other sections		

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

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SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Ensure good ventilation of the work station. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapours/spray.
Hygiene measures	: Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, including	any incompatibilities
Storage conditions	: Keep 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 locked up. Store in a well-ventilated place. Keep cool.
Incompatible products	: Strong bases. Strong acids.
Incompatible materials	: Sources of ignition. Direct sunlight.
Storage temperature	: 25 °C
Storage area	: Store in a well-ventilated place. Store away from heat.
Special rules on packaging	: Store in a closed container.
Packaging materials	: Do not store in corrodable metal.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

d-Limonene (5989-27-5)	
Finland - Occupational Exposure Limits	
HTP (OEL TWA) [1]	140 mg/m ³
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/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
AGW (OEL TWA) [2]	5 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Chemical category	Skin notation, Skin sensitization
Slovenia - Occupational Exposure Limits	
OEL TWA	28 mg/m ³
OEL TWA [ppm]	5 ppm
OEL STEL	112 mg/m ³
OEL STEL [ppm]	20 ppm
OEL chemical category	Potential for cutaneous absorption

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Spain - Occupational Exposure Limits VLA-ED (OEL TWA) [1] 168 mg/m² VLA-ED (OEL TWA) [2] 30 ppm Get: chemical category Sensitizer, skin - potential for outaneous absorption Norway - Occupational Exposure Limits Grenseverdi (OEL TWA) [2] Grenseverdi (OEL TWA) [2] 25 ppm Kortidoverdi (OEL STEL) 175 mg/m² (value calculated) Kortidoverdi (OEL STEL) 7.5 ppm (value calculated) OEL chemical category Allergenic substance Switzerland - Occupational Exposure Limits Margenic substance Switzerland - Occupational Exposure Limits Margenic substance Switzerland - Occupational Exposure Limits 40 mg/m² MAK (OEL TWA) [2] 7 ppm K2GW (OEL STEL) 80 mg/m² K2GW (OEL STEL) 90 mg/m² K2GW (OEL STEL) 80 mg/m² VEL chemical category Sensitizer Jota-Pinene (127-91-3) Belgium - Occupational Exposure Limits OEL TWA 150 mg/m²	d-Limonene (5989-27-5)		
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betaPinene (127-91-3) Belgium - Occupational Exposure Limits OEL TWA [ppm] 20 ppm Estonia - Occupational Exposure Limits OEL TWA 150 mg/m³ OEL TWA 150 mg/m³ OEL STEL 300 mg/m³ OEL STEL [ppm] 50 ppm Lithuania - Occupational Exposure Limits IPRV (OEL TWA) 150 mg/m³ IPRV (OEL STEL) 300 mg/m³ TPRV (OEL STEL) 300 mg/m³ TPRV (OEL STEL) 300 mg/m³ TPRV (OEL STEL) [ppm] 50 ppm Portugal - Occupational Exposure Limits 00 mg/m³ OEL TWA [ppm] 20 ppm (Turpentine and selected Monoterpenes) OEL TWA [ppm] 20 ppm (Turpentine and selected Monoterpenes) OEL chemical category Sensitizer, 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 Sensitizer	KZGW (OEL STEL) [ppm]	14 ppm	
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OEL STEL300 mg/m³OEL STEL [ppm]50 ppmLithuania - Occupational Exposure LimitsIPRV (OEL TWA)150 mg/m³IPRV (OEL TWA) [ppm]25 ppmTPRV (OEL STEL)300 mg/m³TPRV (OEL STEL) [ppm]50 ppmPortugal - Occupational Exposure LimitsOEL TWA [ppm]20 ppm (Turpentine and selected Monoterpenes)OEL tWA [ppm]20 ppm (Turpentine and selected Monoterpenes)OEL chemical categorySensitizer, A4 - Not Classifiable as a Human CarcinogenSpain - Occupational Exposure LimitsVLA-ED (OEL TWA) [1]113 mg/m³VLA-ED (OEL TWA) [2]20 ppmOEL chemical categorySensitizer	OEL TWA	150 mg/m³	
OEL STEL [ppm]50 ppmLithuania - Occupational Exposure LimitsIPRV (OEL TWA)150 mg/m³IPRV (OEL TWA) [ppm]25 ppmTPRV (OEL STEL)300 mg/m³TPRV (OEL STEL) [ppm]50 ppmPortugal - Occupational Exposure LimitsOEL TWA [ppm]20 ppm (Turpentine and selected Monoterpenes)OEL chemical categorySensitizer, A4 - Not Classifiable as a Human CarcinogenSpain - Occupational Exposure LimitsVLA-ED (OEL TWA) [1]113 mg/m³VLA-ED (OEL TWA) [2]20 ppm	OEL TWA [ppm]	25 ppm	
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IPRV (OEL TWA) [ppm]25 ppmTPRV (OEL STEL)300 mg/m³TPRV (OEL STEL) [ppm]50 ppmPortugal - Occupational Exposure LimitsOEL TWA [ppm]20 ppm (Turpentine and selected Monoterpenes)OEL chemical categorySensitizer, A4 - Not Classifiable as a Human CarcinogenSpain - Occupational Exposure LimitsVLA-ED (OEL TWA) [1]113 mg/m³VLA-ED (OEL TWA) [2]20 ppmOEL chemical categorySensitizer	Lithuania - Occupational Exposure Limits		
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TPRV (OEL STEL) [ppm]50 ppmPortugal - Occupational Exposure LimitsOEL TWA [ppm]20 ppm (Turpentine and selected Monoterpenes)OEL chemical categorySensitizer, A4 - Not Classifiable as a Human CarcinogenSpain - Occupational Exposure LimitsVLA-ED (OEL TWA) [1]VLA-ED (OEL TWA) [2]20 ppmOEL chemical categorySensitizer	IPRV (OEL TWA) [ppm]	25 ppm	
Portugal - Occupational Exposure Limits OEL TWA [ppm] 20 ppm (Turpentine and selected Monoterpenes) OEL chemical category Sensitizer, 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	TPRV (OEL STEL)	300 mg/m ³	
OEL TWA [ppm] 20 ppm (Turpentine and selected Monoterpenes) OEL chemical category Sensitizer, 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 Sensitizer	TPRV (OEL STEL) [ppm]	50 ppm	
OEL chemical category Sensitizer, 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	Portugal - Occupational Exposure Limits		
Spain - Occupational Exposure Limits VLA-ED (OEL TWA) [1] 113 mg/m³ VLA-ED (OEL TWA) [2] 20 ppm OEL chemical category Sensitizer	OEL TWA [ppm]	20 ppm (Turpentine and selected Monoterpenes)	
VLA-ED (OEL TWA) [1] 113 mg/m ³ VLA-ED (OEL TWA) [2] 20 ppm OEL chemical category Sensitizer	OEL chemical category	Sensitizer, A4 - Not Classifiable as a Human Carcinogen	
VLA-ED (OEL TWA) [2] 20 ppm OEL chemical category Sensitizer	Spain - Occupational Exposure Limits		
OEL chemical category Sensitizer	VLA-ED (OEL TWA) [1]	113 mg/m ³	
	VLA-ED (OEL TWA) [2]	20 ppm	
	OEL chemical category	Sensitizer	
Sweden - Occupational Exposure Limits			
NGV (OEL TWA) 150 mg/m ³	NGV (OEL TWA)	150 mg/m ³	
NGV (OEL TWA) [ppm] 25 ppm	NGV (OEL TWA) [ppm]	25 ppm	

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.betaPinene (127-91-3)		
KTV (OEL STEL)	300 mg/m ³	
KTV (OEL STEL) [ppm]	50 ppm	
OEL chemical category	Sensitizer	
Norway - Occupational Exposure Limits	·	
Grenseverdi (OEL TWA) [1]	140 mg/m ³	
Grenseverdi (OEL TWA) [2]	25 ppm	
Korttidsverdi (OEL STEL)	175 mg/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	
.alphaPinene (80-56-8)		
Belgium - Occupational Exposure Limits		
OEL TWA [ppm]	20 ppm	
Estonia - Occupational Exposure Limits		
OEL TWA	150 mg/m³	
OEL TWA [ppm]	25 ppm	
OEL STEL	300 mg/m ³	
OEL STEL [ppm]	50 ppm	
Lithuania - Occupational Exposure Limits	·	
IPRV (OEL TWA)	150 mg/m³	
IPRV (OEL TWA) [ppm]	25 ppm	
TPRV (OEL STEL)	300 mg/m ³	
TPRV (OEL STEL) [ppm]	50 ppm	
Portugal - Occupational Exposure Limits		
OEL TWA [ppm]	20 ppm (Turpentine and selected Monoterpenes)	
OEL chemical category	Sensitizer, 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/m ³	
KTV (OEL STEL) [ppm]	50 ppm	
OEL chemical category	Sensitizer	
Norway - Occupational Exposure Limits		
Grenseverdi (OEL TWA) [1]	140 mg/m ³	

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.alphaPinene (80-56-8)		
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	
Dipentene (138-86-3)		
Estonia - Occupational Exposure Limits		
OEL TWA	150 mg/m ³	
OEL TWA [ppm]	25 ppm	
OEL STEL	300 mg/m ³	
OEL STEL [ppm]	50 ppm	
Lithuania - Occupational Exposure Limits		
IPRV (OEL TWA)	150 mg/m ³	
IPRV (OEL TWA) [ppm]	25 ppm	
TPRV (OEL STEL)	300 mg/m ³	
TPRV (OEL STEL) [ppm]	50 ppm	
OEL chemical category	Sensitizer coniferous resin sensitizes the skin	
Sweden - Occupational Exposure Limits		
NGV (OEL TWA)	150 mg/m ³	
NGV (OEL TWA) [ppm]	25 ppm	
KTV (OEL STEL)	300 mg/m ³	
KTV (OEL STEL) [ppm]	50 ppm	
OEL chemical category	Sensitizer	
Norway - Occupational Exposure Limits		
Grenseverdi (OEL TWA) [1]	140 mg/m ³	
Grenseverdi (OEL TWA) [2]	25 ppm	
Korttidsverdi (OEL STEL)	175 mg/m³ (value calculated)	
Korttidsverdi (OEL STEL) [ppm]	37.5 ppm (value calculated)	
OEL chemical category	Allergenic substance	

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

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8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Chemical goggles or safety glasses. Safety glasses

8.2.2.2. Skin protection

Skin and body protection: Wear suitable protective clothing

Hand protection: Wear protective gloves.

8.2.2.3. Respiratory protection

Respiratory protection: Wear appropriate mask

8.2.2.4. Thermal hazards No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls: Avoid release to the environment.

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Colour	:Liquid :Conforms to standard.
Odour	: characteristic.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Not applicable
Explosive limits	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: 90 °C
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
рН	: Not available
Viscosity, kinematic	: Not available
Solubility	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available

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

Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

SECTION 10: Stability and reactivity

10.3. Possibility of hazardous reactions

Direct sunlight. Extremely high or low temperatures.

No additional information available

10.1. Reactivity

Not established.

Not established.

10.2. Chemical stability

10.4. Conditions to avoid

10.5. Incompatible materials

Strong acids. Strong bases.		
10.6. Hazardous decomposition products		
fume. Carbon monoxide. Carbon dioxide.		
SECTION 11: Toxicological information		
11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008		
	Not classified	
	Not classified	
Acute toxicity (inhalation) : Not classified		
Cinnamic aldehyde (104-55-2)		
LD50 oral rat	2220 mg/kg	
LD50 oral	2200 mg/kg bodyweight	
LD50 dermal rabbit	1260 mg/kg	
LD50 dermal	1100 mg/kg bodyweight	
Pine Needle Oil (8002-09-3)		
LD50 oral rat	3200 mg/kg	
LD50 oral	3200 mg/kg bodyweight	
LD50 dermal rabbit	400 mg/kg	
LC50 Inhalation - Rat	> 3.79 mg/l/4h	

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Verdox (88-41-5)	
LD50 oral rat	4600 mg/kg
LD50 oral	4600 mg/kg bodyweight
Vertenex (32210-23-4)	
LD50 oral rat	5 g/kg
LD50 oral	3370 mg/kg bodyweight
LD50 dermal rabbit	> 5000 mg/kg
d-Limonene (5989-27-5)	
LD50 oral rat	4400 mg/kg
LD50 dermal rabbit	> 5 g/kg
Triplal (Vertocitral) (68039-49-6)	
LD50 oral	3900 mg/kg bodyweight
Eucalyptus oil (8000-48-4)	
LD50 oral rat	2480 mg/kg
Benzyl benzoate (120-51-4)	
LD50 oral rat	500 mg/kg
LD50 oral	1160 mg/kg bodyweight
LD50 dermal rabbit	4000 mg/kg
Allyl amyl glycolate (67634-00-8)	
LD50 oral	500 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg
LC50 Inhalation - Rat	0.43 mg/l/4h
LC50 Inhalation - Rat (Dust/Mist)	0.5 mg/l/4h
Aldehyde C-12 (112-54-9)	
LD50 oral rat	23 g/kg
LD50 dermal rabbit	> 2000 mg/kg
.betaPinene (127-91-3)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
.alphaPinene (80-56-8)	
LD50 oral rat	3700 mg/kg
LD50 oral	500 mg/kg bodyweight
LD50 dermal rat	> 5000 mg/kg
Dipentene (138-86-3)	
LD50 oral rat	5300 mg/kg
	Causes skin irritation.
	Causes serious eye irritation.
	May cause an allergic skin reaction.
0	Not classified
Carcinogenicity :	Not classified

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d-Limonene (5989-27-5)	
IARC group	3 - Not classifiable
Reproductive toxicity	Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: May be fatal if swallowed and enters airways.
Benzyl benzoate (120-51-4)	
Viscosity, kinematic	7.456 mm²/s
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 : Based on available data, the classification criteria are not met symptoms

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general Hazardous to the aquatic environment, short–term (acute) Hazardous to the aquatic environment, long–term (chronic)	 Harmful to aquatic life with long lasting effects. Not classified Harmful to aquatic life with long lasting effects.
Pine Needle Oil (8002-09-3)	
EC50 - Crustacea [1]	17 – 28 mg/l (Exposure time: 48 h - Species: Daphnia magna [Flow through])
Vertenex (32210-23-4)	
LC50 - Fish [1]	8.6 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static])
d-Limonene (5989-27-5)	
LC50 - Fish [1]	0.619 – 0.796 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
LC50 - Fish [2]	35 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
Benzyl benzoate (120-51-4)	
LC50 - Fish [1]	2.32 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static])
NOEC (chronic)	0.168 mg/l
.alphaPinene (80-56-8)	
LC50 - Fish [1]	0.28 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 - Crustacea [1]	41 mg/l (Exposure time: 48 h - Species: Daphnia magna)

12.2. Persistence and degradability

SILVER BIRCH & BALSAM CC-16379	
Persistence and degradability	Not established.
Eucalyptus oil (8000-48-4)	
Persistence and degradability	Not established.

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Benzyl benzoate (120-51-4)	
Persistence and degradability	May cause long-term adverse effects in the environment.
12.3. Bioaccumulative potential	
SILVER BIRCH & BALSAM CC-16379	
Bioaccumulative potential	Not established.
Cinnamic aldehyde (104-55-2)	
Partition coefficient n-octanol/water (Log Pow)	2.1065 (at 25 °C)
Vertenex (32210-23-4)	
Partition coefficient n-octanol/water (Log Pow)	4.8 (at 25 °C)
d-Limonene (5989-27-5)	
Partition coefficient n-octanol/water (Log Pow)	4.38 (at 37 °C (at pH 7.2)
Eucalyptus oil (8000-48-4)	
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.
Allyl amyl glycolate (67634-00-8)	
Partition coefficient n-octanol/water (Log Pow)	1.96 (at 25 °C (at pH 2.3)
Aldehyde C-12 (112-54-9)	
Partition coefficient n-octanol/water (Log Pow)	4.9 (at 35 °C)
.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	 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.

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HP Code : 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 °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.

HP4 - "Irritant – skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye.

HP13 - "Sensitising:" waste which contains one or more substances known to cause sensitising effects to the skin or the respiratory organs.

HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment

SECTION 14: Transport information

ADR	IMDG	ΙΑΤΑ	ADN	RID	
14.1. UN number or ID r	number	· · · ·		·	
Not applicable	Not applicable	Not applicable Not applicable Not applica			
14.2. UN proper shippin	ig name	· · · ·		<u>.</u>	
Not applicable	Not applicable	Not applicable	Not applicable Not applicable Not appl		
14.3. Transport hazard	class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.4. Packing group					
Not applicable	Not applicable	Not applicable	Not applicable Not applica		
14.5. Environmental ha	zards	· · · ·			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	

14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

Inland waterway transport

Not applicable

Rail transport

Not applicable

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14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
3(a)	d-Limonene ; Eucalyptus oil ; .betaPinene ; .alphaPinene ; Dipentene	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)	SILVER BIRCH & BALSAM CC-16379 ; Cinnamic aldehyde ; Pine Needle Oil ; Vertenex ; d- Limonene ; Triplal (Vertocitral) ; Eucalyptus oil ; Benzyl benzoate ; Allyl amyl glycolate ; Aldehyde C-12 ; Dipentene	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)	SILVER BIRCH & BALSAM CC-16379 ; Cinnamic aldehyde ; Pine Needle Oil ; Verdox ; d- Limonene ; Triplal (Vertocitral) ; Eucalyptus oil ; Benzyl benzoate ; Dipentene	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.	d-Limonene ; Eucalyptus oil ; .betaPinene ; .alphaPinene ; Dipentene	Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.

REACH Annex XIV (Authorisation List)

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

REACH Candidate List (SVHC)

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

PIC Regulation (Prior Informed Consent)

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

POP Regulation (Persistent Organic Pollutants)

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

Ozone Regulation (1005/2009)

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

Explosives Precursors Regulation (2019/1148)

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

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Drug Precursors Regulation (273/2004)

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

15.1.2. National regulations

Germany

Water hazard class (WGK) Storage class (LGK, TRGS 510)		ly hazardous to nbustible liquid	•	ation according	to AwSV, Annex ?	1).
Joint storage table	EGIT 10 COL	LGK 2A	LGK 2B	LGK 3	LGK 4.1A	
	LGK 4.1B	LGK 4.2	LGK 4.3	LGK 5.1A	LGK 5.1B	
	LGK 5.1C	LGK 5.2	LGK 6.1A	LGK 6.1B	LGK 6.1C	
	LGK 6.1D	LGK 6.2	LGK 7	LGK 8A	LGK 8B	
	LGK 10	LGK 11	LGK 12	LGK 13	LGK 10-13	
Joint storage not permitted for	: LGK 1, LGK 2	2A, LGK 5.1A, L	_GK 6.2, LGK 7			
Joint storage with restrictions permitted for				K 5.1C, LGK 5.2		
Joint storage permitted for			_GK 6.1A, LGK .GK 13, LGK 10	-	, LGK 6.1D, LGK 8	3A, LGK 8B,
List of sensitizing substances (TRGS 907)			ices according 1			
Hazardous Incident Ordinance (12. BImSchV)		-	-	dinance (12. Bln	nSchV)	
Netherlands						
ABM category	: A(2) - toxic for aquatic organisms, may have longterm hazardous effects in aquatic					
SZW-lijst van kankerverwekkende stoffen	environment		tocitral) Eucalyr	tus oil Allvi am	ul alvcolate are list	ted
SZW-lijst van kankelverwerkende stoffen	: Pine Needle Oil ,Triplal (Vertocitral),Eucalyptus oil,Allyl amyl glycolate are listed : Pine Needle Oil ,Triplal (Vertocitral),Eucalyptus oil,Allyl amyl glycolate are listed					
SZW-lijst van reprotoxische stoffen – Borstvoeding			,		, giyeelate are not	.00
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid		components are				
SZW-lijst van reprotoxische stoffen – Ontwikkeling	: None of the c	components are	listed			
Denmark						
Class for fire hazard	: Class III-1					
Store unit	 50 liter Flammable according to the Danish Ministry of Justice; Emergency management guideline for the storage of flammable liquids must be followed 					
Classification remarks				ent guidelines		
Danish National Regulations		-			use the product ust not be in direc	t contact with
Switzerland						
Storage class (LK)	: LK 6.1 - Toxi	c materials				
15.2. Chemical safety assessment						

No chemical safety assessment has been carried out

SECTION 16: Other information

Other information

: None.

Full text of H- and EUH	I-statements:
Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1

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Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
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. 1B	Skin sensitisation, category 1B

The classification complies with

: ATP 12

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.