## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878



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

## 1.1. Product identifier

Product form : Mixture

Product name : WILLOW MOON CC-16368 5% in DPG

Product code : CC-16368\_5%

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 : Perfumes, Fragrances

Use of the substance/mixture : Perfumes, Fragr 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]

Hazardous to the aquatic environment – Chronic Hazard H412

Category 3

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

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

Harmful to aquatic life with long lasting effects.

# 2.2. Label elements

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

Signal word (CLP) : -

Hazard statements (CLP) : H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP) : P273 - Avoid release to the environment.

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation.

EUH phrases : EUH208 - Contains Iso E Super, Vertenex, (R)-p-mentha-1,8-diene, d-limonene, Hexyl

salicylate. May produce an allergic reaction.

Extra phrases : Restricted to professional users.

## 2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

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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	0.745 – 1.48653	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	0.315 – 0.625	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 1, H410
Vertenex	CAS-No.: 32210-23-4 EC-No.: 250-954-9 REACH-no: 01-2119976286- 24	0.15 – 0.3	Skin Sens. 1B, H317
(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-	0.13 – 0.264	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 3, H412
Cedarwood oil, Virginia	CAS-No.: 8000-27-9 EC-No.: 285-370-3	0.125 – 0.25	Asp. Tox. 1, H304 Aquatic Chronic 1, H410
Hexyl salicylate	CAS-No.: 6259-76-3 EC-No.: 228-408-6	0.11 – 0.22318	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
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	0.015 – 0.03	Aquatic Chronic 3, H412
dipentene, limonene substance with national workplace exposure limit(s) (EE, LT, SE, NO)	CAS-No.: 138-86-3	0.015 – 0.0285	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
.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	0.005 – 0.0105	Flam. Liq. 3, H226

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
citral substance with national workplace exposure limit(s) (BE, ES, IE, PL, PT)	CAS-No.: 5392-40-5 EC-No.: 226-394-6 EC Index-No.: 605-019-00-3 REACH-no: 01-2119462829- 23	0 – 0.00375	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
Alcohol C-10 substance with national workplace exposure limit(s) (BG, DE, LT, LV, RO, CH)	CAS-No.: 112-30-1 EC-No.: 203-956-9	0 – 0.00002	Aquatic Chronic 3, H412
isopentyl acetate substance with national workplace exposure limit(s) (AT, BE, BG, CY, DE, DK, EE, ES, FI, FR, GI, GR, HR, HU, IE, IT, LT, LU, LV, MT, NL, PL, PT, RO, SE, SI, SK, NO, TR); substance with a Community workplace exposure limit	CAS-No.: 123-92-2 EC-No.: 204-662-3 EC Index-No.: 607-130-00-2 REACH-no: 01-2119548408- 32	0 – 0.000005	Flam. Liq. 3, H226

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

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

#### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation 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. Wash skin with plenty of water.

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

persists. Rinse eyes with water as a precaution.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a poison

center/doctor/physician 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

# 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 environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

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#### **SECTION 6: Accidental release measures**

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

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel.

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 Heading 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. Wear personal protective equipment. 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

vapor.

Hygiene measures : 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

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

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

Storage temperature : 25 °C

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

Special rules on packaging : Store in a closed container.

Packaging materials : Do not store in corrodable metal.

#### 7.3. Specific end use(s)

No additional information available

#### **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

# (R)-p-mentha-1,8-diene, d-limonene (5989-27-5)

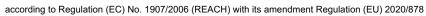
# Finland - Occupational Exposure Limits

HTP (OEL TWA) [1] 140 mg/m<sup>3</sup>



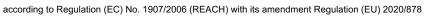


(R)-p-mentha-1,8-diene, d-limonene (5989-27-5)		
HTP (OEL TWA) [2]	25 ppm	
HTP (OEL STEL)	280 mg/m³	
HTP (OEL STEL) [ppm]	50 ppm	
Germany - Occupational Exposure Limits (TRGS 90	00)	
AGW (OEL TWA) [1]	28 mg/m³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)	
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	
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	
Benzyl acetate (140-11-4)		
Belgium - Occupational Exposure Limits		
OEL TWA	62 mg/m³	
OEL TWA	10 ppm	
Denmark - Occupational Exposure Limits		
OEL TWA [1]	61 mg/m³	
OEL TWA [2]	10 ppm	
OEL STEL	122 mg/m³	



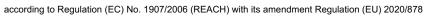


OEL STEL  Ireland - Occupational Exposure Limits	20 ppm	
reland - Occupational Exposure Limits		
OEL TWA [2]	10 ppm	
OEL STEL	30 ppm (calculated)	
Latvia - Occupational Exposure Limits		
OEL TWA	5 mg/m³	
Lithuania - Occupational Exposure Limits		
IPRV (OEL TWA)	5 mg/m³	
Portugal - Occupational Exposure 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	
dipentene, limonene (138-86-3)		
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)	
	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)	
	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)	
	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	
OEL chemical category	Sensitizer coniferous resin sensitizes the skin	
Sweden - Occupational Exposure Limits		
NGV (OEL TWA)	150 mg/m³	



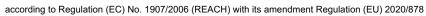


dipentene, limonene (138-86-3)		
NGV (OEL TWA) [ppm]	25 ppm	
KTV (OEL STEL)	300 mg/m³	
KTV (OEL STEL) [ppm]	50 ppm	
OEL chemical category	Sensitizer	
Norway - Occupational Exposure Limits		
Grenseverdi (OEL TWA) [1]	140 mg/m³	
Grenseverdi (OEL TWA) [2]	25 ppm	
Korttidsverdi (OEL STEL)	175 mg/m³ (value calculated)	
Korttidsverdi (OEL STEL) [ppm]	37.5 ppm (value calculated)	
OEL chemical category	Allergenic substance	
.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	
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	





.alphaPinene (80-56-8)		
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	
citral (5392-40-5)		
Belgium - Occupational Exposure Limits		
OEL TWA	32 mg/m³ (vapor and aerosol)	
OEL TWA	5 ppm (vapor and aerosol)	
OEL chemical category	Skin	
Ireland - Occupational Exposure Limits		
OEL TWA [2]	5 ppm	
OEL STEL	15 ppm (calculated)	
Poland - Occupational Exposure Limits		
NDS (OEL TWA)	27 mg/m³	
NDSCh (OEL STEL)	54 mg/m³	
Portugal - Occupational Exposure Limits		
OEL TWA	5 ppm (inhalable fraction; vapor)	
OEL chemical category	Sensitizer dermal, A4 - Not Classifiable as a Human Carcinogen, skin - potential for cutaneous exposure	
Spain - Occupational Exposure Limits		
VLA-ED (OEL TWA) [2]	5 ppm (inhalable fraction and vapor)	
OEL chemical category	Sensitizer, skin - potential for cutaneous absorption	
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA [ppm]	5 ppm (inhalable fraction and vapor)	
ACGIH chemical category	Not Classifiable as a Human Carcinogen, Skin - potential significant contribution to overall exposure by the cutaneous route, dermal sensitizer	
Alcohol C-10 (112-30-1)		
Bulgaria - Occupational Exposure Limits		
OEL TWA	10 mg/m³	
Germany - Occupational Exposure Limits (TRGS 900)		
AGW (OEL TWA) [1]	66 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]	10 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)	





Alcohol C-10 (112-30-1)		
Latvia - Occupational Exposure Limits		
OEL TWA	10 mg/m³	
Lithuania - Occupational Exposure Limits		
IPRV (OEL TWA)	10 mg/m³	
Romania - Occupational Exposure Limits		
OEL TWA	100 mg/m³	
OEL TWA	15 ppm	
OEL STEL	200 mg/m³	
OEL STEL	30 ppm	
Switzerland - Occupational Exposure Limits		
MAK (OEL TWA) [1]	66 mg/m³ (aerosol, vapour)	
MAK (OEL TWA) [2]	10 ppm (aerosol, vapour)	
KZGW (OEL STEL)	66 mg/m³ (aerosol, vapour)	
KZGW (OEL STEL) [ppm]	10 ppm (aerosol, vapour)	
isopentyl acetate (123-92-2)		
EU - Indicative Occupational Exposure Limit (IOEL)		
IOEL TWA	270 mg/m³	
IOEL TWA [ppm]	50 ppm	
IOEL STEL	540 mg/m³	
IOEL STEL [ppm]	100 ppm	
Austria - Occupational Exposure Limits		
MAK (OEL TWA)	270 mg/m³ (Pentyl acetate (all isomers))	
MAK (OEL TWA) [ppm]	50 ppm (Pentyl acetate (all isomers))	
MAK (OEL STEL)	540 mg/m³ (Pentylacetate)	
MAK (OEL STEL) [ppm]	100 ppm (Pentylacetate)	
Belgium - Occupational Exposure Limits		
OEL TWA	270 mg/m³	
OEL TWA	50 ppm	
OEL STEL	540 mg/m³	
OEL STEL	100 ppm	
Bulgaria - Occupational Exposure Limits		
OEL TWA	270 mg/m³	
OEL TWA	50 ppm	
OEL STEL	540 mg/m³	
OEL STEL	100 ppm	
Croatia - Occupational Exposure Limits		
GVI (OEL TWA) [1]	270 mg/m³	
GVI (OEL TWA) [2]	50 ppm	
KGVI (OEL STEL)	540 mg/m³	





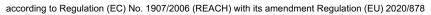
isopentyl acetate (123-92-2)		
KGVI (OEL STEL) [ppm]	100 ppm	
Cyprus - Occupational Exposure Limits		
OEL TWA	270 mg/m³	
OEL TWA	50 ppm	
OEL STEL	540 mg/m³	
OEL STEL	100 ppm	
Denmark - Occupational Exposure Limits		
OEL TWA [1]	271 mg/m³ (Amyl acetate, all isomers)	
OEL TWA [2]	50 ppm (Amyl acetate, all isomers)	
OEL STEL	540 mg/m³	
OEL STEL	100 ppm	
Estonia - Occupational Exposure Limits		
OEL TWA	270 mg/m³	
OEL TWA	50 ppm	
OEL STEL	540 mg/m³	
OEL STEL	100 ppm	
Finland - Occupational Exposure Limits		
HTP (OEL TWA) [1]	270 mg/m³ (Pentyl acetate)	
HTP (OEL TWA) [2]	50 ppm (Pentyl acetate)	
HTP (OEL STEL)	540 mg/m³	
HTP (OEL STEL) [ppm]	100 ppm	
France - Occupational Exposure Limits		
VME (OEL TWA)	270 mg/m³ (restrictive limit)	
VME (OEL TWA) [ppm]	50 ppm (restrictive limit)	
VLE (OEL C/STEL)	540 mg/m³ (restrictive limit)	
VLE (OEL C/STEL) [ppm]	100 ppm (restrictive limit)	
Germany - Occupational Exposure Limits (TRGS 90	0)	
AGW (OEL TWA) [1]	270 mg/m³	
AGW (OEL TWA) [2]	50 ppm	
Gibraltar - Occupational Exposure Limits		
OEL TWA	270 mg/m³	
OEL TWA	50 ppm	
OEL STEL	540 mg/m³	
OEL STEL	100 ppm	
Greece - Occupational Exposure Limits		
OEL TWA	530 mg/m³	
OEL TWA	100 ppm	
OEL STEL	800 mg/m <sup>3</sup>	
OEL STEL	150 ppm	





isopentyl acetate (123-92-2)		
Hungary - Occupational Exposure Limits		
AK (OEL TWA)	270 mg/m³	
CK (OEL STEL)	540 mg/m³	
Ireland - Occupational Exposure Limits		
OEL TWA [1]	260 mg/m³	
OEL TWA [2]	50 ppm	
OEL STEL	520 mg/m³	
OEL STEL	100 ppm	
Italy - Occupational Exposure Limits		
OEL TWA	270 mg/m³	
OEL TWA	50 ppm	
OEL STEL	540 mg/m³	
OEL STEL	100 ppm	
Latvia - Occupational Exposure Limits		
OEL TWA	270 mg/m³	
OEL TWA	50 ppm	
Lithuania - Occupational Exposure Limits		
IPRV (OEL TWA)	270 mg/m³	
IPRV (OEL TWA) [ppm]	50 ppm	
TPRV (OEL STEL)	540 mg/m³	
TPRV (OEL STEL) [ppm]	100 ppm	
Luxembourg - Occupational Exposure Limits		
OEL TWA	270 mg/m³	
OEL TWA	50 ppm	
OEL STEL	540 mg/m³	
OEL STEL	100 ppm	
Malta - Occupational Exposure Limits		
OEL TWA	270 mg/m³	
OEL TWA	50 ppm	
OEL STEL	540 mg/m³	
OEL STEL	100 ppm	
Netherlands - Occupational Exposure Limits		
TGG-15min (OEL STEL)	530 mg/m³	
TGG-15min (OEL STEL) [ppm]	98.1 ppm	
Poland - Occupational Exposure Limits		
NDS (OEL TWA)	250 mg/m³	
NDSCh (OEL STEL)	500 mg/m³	
Portugal - Occupational Exposure Limits		
OEL TWA	270 mg/m³ (indicative limit value)	

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isopentyl acetate (123-92-2)		
OEL TWA	50 ppm (indicative limit value (Pentyl acetate, all isomers)	
OEL STEL	540 mg/m³ (indicative limit value)	
OEL STEL	100 ppm (indicative limit value)	
Romania - Occupational Exposure Limits		
OEL TWA	270 mg/m³	
OEL TWA	50 ppm	
OEL STEL	540 mg/m³	
OEL STEL	100 ppm	
Slovakia - Occupational Exposure Limits		
NPHV (OEL TWA) [1]	270 mg/m³	
NPHV (OEL TWA) [2]	50 ppm	
NPHV (OEL C)	540 mg/m³	
Slovenia - Occupational Exposure Limits		
OEL TWA	270 mg/m³	
OEL TWA	50 ppm	
OEL STEL	540 mg/m³	
OEL STEL	100 ppm	
Spain - Occupational Exposure Limits		
VLA-ED (OEL TWA) [1]	270 mg/m³ (indicative limit value)	
VLA-ED (OEL TWA) [2]	50 ppm (indicative limit value)	
VLA-EC (OEL STEL)	540 mg/m³	
VLA-EC (OEL STEL) [ppm]	100 ppm	
Sweden - Occupational Exposure Limits		
NGV (OEL TWA)	270 mg/m³ (Pentyl acetates)	
NGV (OEL TWA) [ppm]	50 ppm (Pentyl acetates)	
KTV (OEL STEL)	540 mg/m³ (Pentyl acetates)	
KTV (OEL STEL) [ppm]	100 ppm (Pentyl acetates)	
Norway - Occupational Exposure Limits		
Grenseverdi (OEL TWA) [1]	260 mg/m³	
Grenseverdi (OEL TWA) [2]	50 ppm	
Korttidsverdi (OEL STEL)	325 mg/m³ (value calculated)	
Korttidsverdi (OEL STEL) [ppm]	75 ppm (value calculated)	
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA [ppm]	50 ppm (Pentyl acetate, all isomers)	
ACGIH OEL STEL [ppm]	100 ppm (Pentyl acetate, all isomers)	

# 8.1.2. Recommended monitoring procedures

No additional information available

# 8.1.3. Air contaminants formed

No additional information available

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No additional information available

#### 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### 8.2.2. Personal protection equipment

#### Personal protective equipment:

Avoid all unnecessary exposure.

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





# 8.2.2.1. Eye and face protection

#### Eye protection:

Chemical goggles or safety glasses. Safety glasses

#### 8.2.2.2. Skin protection

#### Skin and body protection:

Wear suitable protective clothing

#### Hand protection:

Wear protective gloves.

## 8.2.2.3. Respiratory protection

## Respiratory protection:

Wear appropriate mask

#### 8.2.2.4. Thermal hazards

No additional information available

# 8.2.3. Environmental exposure controls

#### **Environmental exposure controls:**

Avoid release to the environment.

## Other information:

Do not eat, drink or smoke during use.

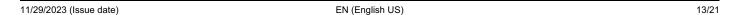
# **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Color : Standard. light yellow. amber. Conforms to standard.

Odor characteristic. Odor threshold Not available Melting point : Not applicable Freezing point : Not available : Not available Boiling point Flammability : Non flammable. Lower explosion limit : Not available Upper explosion limit : Not available : > 93 °C Flash point Auto-ignition temperature : Not available





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Decomposition temperature : Not available рΗ : Not available Viscosity, kinematic : Not available : Not available Solubility Partition coefficient n-octanol/water (Log Kow) : Not available Not available Vapor pressure Vapor pressure at 50°C Not available Density Not available Relative density : Not available Relative vapor density at 20°C : Not available Particle characteristics : Not applicable

#### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

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

#### 10.2. Chemical stability

Not established.

## 10.3. Possibility of hazardous reactions

Not established.

## 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

# 10.5. Incompatible materials

Strong acids. Strong bases.

# 10.6. Hazardous decomposition products

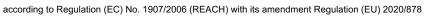
fume. Carbon monoxide. Carbon dioxide.

# **SECTION 11: Toxicological information**

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

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

riodio toxiony (irridiation)	Tet oldomou
benzyl benzoate (120-51-4)	
LD50 oral rat	500 mg/kg (Source: NLM_CIP)
LD50 oral	1160 mg/kg body weight
LD50 dermal rabbit	4000 mg/kg (Source: NLM_CIP)
Vertenex (32210-23-4)	
LD50 oral rat	5 g/kg (Source: NLM_CIP)
LD50 oral	3370 mg/kg body weight





LD50 dermal rabbit	Vertenex (32210-23-4)			
LD50 oral rat	LD50 dermal rabbit	> 5000 mg/kg (Source: CHEMVIEW)		
D50 demal rabbit	(R)-p-mentha-1,8-diene, d-limonene (5989-27-	(R)-p-mentha-1,8-diene, d-limonene (5989-27-5)		
Cedarwood oil, Virginia (8000-27-9)   LD50 oral rat	LD50 oral rat	4400 mg/kg (Source: CHEMVIEW)		
LD50 oral rat	LD50 dermal rabbit	> 5 g/kg (Source: CHEMVIEW)		
Hexyl salicylate (6259-76-3)	Cedarwood oil, Virginia (8000-27-9)			
LD50 oral rat	LD50 oral rat	> 5 g/kg (Source: NLM_CIP)		
LD50 dermal rabbit   > 5000 mg/kg (Source: ECHA_API)	Hexyl salicylate (6259-76-3)			
LD50 oral rat	LD50 oral rat	> 5 g/kg (Source: NLM_CIP)		
LD50 oral rat  LD50 oral  LD50 oral  LD50 oral  LD50 dermal rabbit  > 5000 mg/kg (Source: JAPAN_GHS)  LD50 dermal rabbit  > 5000 mg/kg (Source: NLM_CIP)  LalphaPinene (80-56-8)  LD50 oral rat    5300 mg/kg (Source: NLM_CIP)  LD50 oral rat    5000 mg/kg (Source: CHEMVIEW)    Citral (5392-40-5)  LD50 oral rat    4960 mg/kg (Source: NLM_CIP)    LD50 dermal rabbit    2250 mg/kg (Source: NLM_CIP)    Alcohol C-10 (112-30-1)  LD50 oral rat    4720 mg/kg (Source: NLM_CIP)    Skin corrosion/irritation    Additional information    Sased on available data, the classification criteria are not met    Serious eye damage/irritation   Additional information   Based on available data, the classification criteria are not met    Respiratory or skin sensitization   Additional information   Based on available data, the classification criteria are not met    Respiratory or skin sensitization   Additional information   Based on available data, the classification criteria are not met    Germ cell mutagenicity   Not classified   Additional information   Based on available data, the classification criteria are not met    Germ cell mutagenicity   Not classified   Additional information   Based on available data, the classification criteria are not met    Germ cell mutagenicity   Not classified   Additional information   Based on available data, the classification criteria are not met    Germ cell mutagenicity   Not classified   Additional information   Based on available data, the classification criteria are not met    Germ cell mutagenicity   Not classified   Additional information   Based on available data, the classification criteria are not met    Germ cell mutagenicity   Not classified   Additional information   Based on available data, the classification criteria are not met    Germ cell mutagenicity   Not classified   Additional information   Based on available data, the classification crit	LD50 dermal rabbit	> 5000 mg/kg (Source: ECHA_API)		
LD50 oral  LD50 dermal rabbit  > 5000 mg/kg (Source: JAPAN_GHS)  dipentene, limonene (138-86-3)  LD50 oral rat  \$ 5300 mg/kg (Source: NLM_CIP)  alpha-Pinene (80-56-8)  LD50 oral rat  \$ 3700 mg/kg (Source: NLM_CIP)  LD50 oral  LD50 oral  \$ 5000 mg/kg (Source: NLM_CIP)  LD50 oral  LD50 oral  \$ 5000 mg/kg (Source: CHEMVIEW)  citral (5392-40-5)  LD50 oral rat  \$ 4960 mg/kg (Source: NLM_CIP)  LD50 oral rat  \$ 4960 mg/kg (Source: NLM_CIP)  LD50 oral rat  \$ 4960 mg/kg (Source: NLM_CIP)  Alcohol C-10 (112-30-1)  LD50 oral rat  \$ 4720 mg/kg (Source: NLM_CIP)  Skin corrosion/irritation  \$ 3560 mg/kg (Source: NLM_CIP)  Skin corrosion/irritation  \$ 1000 mg/kg (Source: NLM_CIP)  Skin corrosion	Benzyl acetate (140-11-4)			
LD50 dermal rabbit > 5000 mg/kg (Source: JAPAN_GHS)  dipentene, limonene (138-86-3)  LD50 oral rat   5300 mg/kg (Source: NLM_CIP)  alphaPinene (80-56-8)  LD50 oral rat   3700 mg/kg (Source: NLM_CIP)  LD50 oral rat   500 mg/kg body weight  LD50 dermal rat   > 5000 mg/kg (Source: CHEMVIEW)  citral (5392-40-5)  LD50 oral rat   4960 mg/kg (Source: NLM_CIP)  LD50 dermal rabbit   2250 mg/kg (Source: NLM_CIP)  Alcohol C-10 (112-30-1)  LD50 dermal rabbit   3560 mg/kg (Source: NZ_CCID)  Alcohol C-10 (100 mg/kg (Source: NZ_CCID)  Skin corrosion/irritation   Sased on available data, the classification criteria are not met Serious eye damage/irritation   Not classified Additional information   Based on available data, the classification criteria are not met Respiratory or skin sensitization   Not classified Additional information   Based on available data, the classification criteria are not met Respiratory or skin sensitization   Not classified Additional information   Based on available data, the classification criteria are not met Respiratory or skin sensitization   Sased on available data, the classification criteria are not met Germ cell mutagenicity   Not classified Additional information   Based on available data, the classification criteria are not met Germ cell mutagenicity   Not classified Additional information   Based on available data, the classification criteria are not met (R)-p-mentha-1,8-diene, d-limonene (5989-27-5)  LARC group   3 - Not classified   Sancy a control or criteria are not met (R)-p-mentha-1,8-diene, d-limonene (5989-27-5)	LD50 oral rat	2490 mg/kg (Source: JAPAN_GHS)		
dipentene, limonene (138-86-3)  LD50 oral rat   \$300 mg/kg (Source: NLM_CIP)  .alphaPinene (80-56-8)  LD50 oral rat   \$3700 mg/kg (Source: NLM_CIP)  LD50 oral rat   \$500 mg/kg body weight  LD50 dermal rat   > 5000 mg/kg (Source: CHEMVIEW)  citral (5392-40-5)  LD50 oral rat   4960 mg/kg (Source: NLM_CIP)  LD50 dermal rabbit   2250 mg/kg (Source: NLM_CIP)  Alcohol C-10 (112-30-1)  LD50 oral rat   4720 mg/kg (Source: NLM_CIP)  LD50 dermal rabbit   3560 mg/kg (Source: NLM_CIP)  Skin corrosion/irritation   1000 call call call call call call call c	LD50 oral	2490 mg/kg body weight		
LD50 oral rat  alphaPinene (80-56-8)  LD50 oral rat  3700 mg/kg (Source: NLM_CIP)  LD50 oral  LD50 oral  LD50 oral  LD50 dermal rat  > 5000 mg/kg (Source: NLM_CIP)  citral (5392-40-5)  LD50 oral rat  4960 mg/kg (Source: NLM_CIP)  LD50 dermal rabbit  2250 mg/kg (Source: NLM_CIP)  LD50 dermal rabbit  2250 mg/kg (Source: NLM_CIP)  Alcohol C-10 (112-30-1)  LD50 dermal rabbit  3560 mg/kg (Source: NLM_CIP)  Skin corrosion/irritation  Additional information  Serious eye damage/irritation  Additional information  Sased on available data, the classification criteria are not met  Respiratory or skin sensitization  Additional information  Sased on available data, the classification criteria are not met  Germ cell mutagenicity  Additional information  Based on available data, the classification criteria are not met  Germ cell mutagenicity  Sased on available data, the classification criteria are not met  Germ cell mutagenicity  Sased on available data, the classification criteria are not met  Germ cell mutagenicity  Sased on available data, the classification criteria are not met  (R)-p-mentha-1,8-diene, d-limonene (5989-27-5)  IARC group  3 - Not classifiable  Benzyl acetate (140-11-4)	LD50 dermal rabbit	> 5000 mg/kg (Source: JAPAN_GHS)		
LD50 oral rat 3700 mg/kg (Source: NLM_CIP)  LD50 oral	dipentene, limonene (138-86-3)			
LD50 oral rat 3700 mg/kg (Source: NLM_CIP)  LD50 oral 500 mg/kg body weight  LD50 dermal rat > 5000 mg/kg (Source: CHEMVIEW)  citral (5392-40-5)  LD50 oral rat 4960 mg/kg (Source: NLM_CIP)  LD50 dermal rabbit 2250 mg/kg (Source: NLM_CIP)  Alcohol C-10 (112-30-1)  LD50 oral rat 4720 mg/kg (Source: NLM_CIP)  Alcohol C-10 (112-30-1)  LD50 dermal rabbit 3560 mg/kg (Source: NLM_CIP)  Skin corrosion/irritation : Not classified Additional information : Based on available data, the classification criteria are not met Serious eye damage/irritation : Not classified Additional information : Based on available data, the classification criteria are not met Respiratory or skin sensitization : Not classified Additional information : Based on available data, the classification criteria are not met Germ cell mutagenicity : Not classified Additional information : Based on available data, the classification criteria are not met Germ cell mutagenicity : Not classified Additional information : Based on available data, the classification criteria are not met Carcinogenicity : Not classified Additional information : Based on available data, the classification criteria are not met (R)-p-mentha-1,8-diene, d-limonene (5989-27-5)  LARC group 3 - Not classifiable  Benzyl acetate (140-11-4)	LD50 oral rat	5300 mg/kg (Source: NLM_CIP)		
LD50 oral  LD50 dermal rat  > 500 mg/kg (Source: CHEMVIEW)  citral (5392-40-5)  LD50 oral rat  4960 mg/kg (Source: NLM_CIP)  LD50 dermal rabbit  2250 mg/kg (Source: NLM_CIP)  Alcohol C-10 (112-30-1)  LD50 oral rat  4720 mg/kg (Source: NZ_CCID)  LD50 dermal rabbit  3560 mg/kg (Source: NLM_CIP)  Skin corrosion/irritation  Additional information  Serious eye damage/irritation  Additional information  Sased on available data, the classification criteria are not met  Respiratory or skin sensitization  Additional information  Sased on available data, the classification criteria are not met  Respiratory or skin sensitization  Additional information  Sased on available data, the classification criteria are not met  Germ cell mutagenicity  Not classified  Additional information  Sased on available data, the classification criteria are not met  Germ cell mutagenicity  Not classified  Additional information  Sased on available data, the classification criteria are not met  Carcinogenicity  Not classified  Additional information  Sased on available data, the classification criteria are not met  Carcinogenicity  Solo mg/kg (Source: NLM_CIP)  Additional information  Sased on available data, the classification criteria are not met  (R)-p-mentha-1,8-diene, d-limonene (5989-27-5)  IARC group  3 - Not classifiable	.alphaPinene (80-56-8)			
D50 dermal rat   > 5000 mg/kg (Source: CHEMVIEW)	LD50 oral rat	3700 mg/kg (Source: NLM_CIP)		
citral (5392-40-5)  LD50 oral rat  4960 mg/kg (Source: NLM_CIP)  LD50 dermal rabbit  2250 mg/kg (Source: NLM_CIP)  Alcohol C-10 (112-30-1)  LD50 oral rat  4720 mg/kg (Source: NZ_CCID)  LD50 dermal rabbit  3560 mg/kg (Source: NLM_CIP)  Skin corrosion/irritation  Skin corrosion/irritation  Additional information  Based on available data, the classification criteria are not met  Serious eye damage/irritation  Additional information  Based on available data, the classification criteria are not met  Respiratory or skin sensitization  Additional information  Based on available data, the classification criteria are not met  Germ cell mutagenicity  Not classified  Additional information  Based on available data, the classification criteria are not met  Germ cell mutagenicity  Not classified  Additional information  Based on available data, the classification criteria are not met  Carcinogenicity  Not classified  Additional information  Based on available data, the classification criteria are not met  Carcinogenicity  Not classified  Additional information  Based on available data, the classification criteria are not met  (R)-p-mentha-1,8-diene, d-limonene (5989-27-5)  IARC group  3 - Not classifiable	LD50 oral	500 mg/kg body weight		
LD50 oral rat  LD50 dermal rabbit  2250 mg/kg (Source: NLM_CIP)  Alcohol C-10 (112-30-1)  LD50 oral rat  4720 mg/kg (Source: NZ_CCID)  LD50 dermal rabbit  3560 mg/kg (Source: NLM_CIP)  Skin corrosion/irritation  Not classified  Additional information  Skin corrosion/irritation  Skin corrosion/irritation  Not classified  Additional information  Skin corrosion/irritation  Skin corrosion/irritation  Skin corrosion/irritation  Skin corrosion/irritation  Skased on available data, the classification criteria are not met  Serious eye damage/irritation  Skased on available data, the classification criteria are not met  Sem cell mutagenicity  Not classified  Additional information  Skased on available data, the classification criteria are not met  Carcinogenicity  Not classified  Additional information  Skased on available data, the classification criteria are not met  (R)-p-mentha-1,8-diene, d-limonene (5989-27-5)  IARC group  3 - Not classifiable  Benzyl acetate (140-11-4)	LD50 dermal rat	> 5000 mg/kg (Source: CHEMVIEW)		
LD50 dermal rabbit  2250 mg/kg (Source: NLM_CIP)  LD50 oral rat  4720 mg/kg (Source: NZ_CCID)  LD50 dermal rabbit  3560 mg/kg (Source: NLM_CIP)  Skin corrosion/irritation  Skin corrosion/irritation  Additional information  Serious eye damage/irritation  Additional information  Serious eye damage/irritation  Additional information  Sased on available data, the classification criteria are not met  Respiratory or skin sensitization  Additional information  Sased on available data, the classification criteria are not met  Respiratory or skin sensitization  Additional information  Sased on available data, the classification criteria are not met  Germ cell mutagenicity  Additional information  Sased on available data, the classification criteria are not met  Carcinogenicity  Additional information  Sased on available data, the classification criteria are not met  (R)-p-mentha-1,8-diene, d-limonene (5989-27-5)  IARC group  3 - Not classifiable  Benzyl acetate (140-11-4)	citral (5392-40-5)			
Alcohol C-10 (112-30-1)  LD50 oral rat	LD50 oral rat	4960 mg/kg (Source: NLM_CIP)		
LD50 oral rat  4720 mg/kg (Source: NZ_CCID)  LD50 dermal rabbit  3560 mg/kg (Source: NLM_CIP)  Skin corrosion/irritation  : Not classified  Additional information : Based on available data, the classification criteria are not met  Serious eye damage/irritation : Not classified  Additional information : Based on available data, the classification criteria are not met  Respiratory or skin sensitization : Not classified  Additional information : Based on available data, the classification criteria are not met  Germ cell mutagenicity : Not classified  Additional information : Based on available data, the classification criteria are not met  Carcinogenicity : Not classified  Additional information : Based on available data, the classification criteria are not met  (R)-p-mentha-1,8-diene, d-limonene (5989-27-5)  IARC group  3 - Not classifiable	LD50 dermal rabbit	2250 mg/kg (Source: NLM_CIP)		
LD50 dermal rabbit  3560 mg/kg (Source: NLM_CIP)  Skin corrosion/irritation  Additional information  : Not classified  Serious eye damage/irritation  Additional information  : Not classified  Additional information  : Based on available data, the classification criteria are not met  Respiratory or skin sensitization  : Not classified  Additional information  : Based on available data, the classification criteria are not met  Germ cell mutagenicity  : Not classified  Additional information  : Based on available data, the classification criteria are not met  Carcinogenicity  : Not classified  Additional information  : Based on available data, the classification criteria are not met  (R)-p-mentha-1,8-diene, d-limonene (5989-27-5)  IARC group  3 - Not classifiable  Benzyl acetate (140-11-4)	Alcohol C-10 (112-30-1)			
Skin corrosion/irritation : Not classified Additional information : Based on available data, the classification criteria are not met Serious eye damage/irritation : Not classified Additional information : Based on available data, the classification criteria are not met Respiratory or skin sensitization : Not classified Additional information : Based on available data, the classification criteria are not met Germ cell mutagenicity : Not classified Additional information : Based on available data, the classification criteria are not met Carcinogenicity : Not classified Additional information : Based on available data, the classification criteria are not met  (R)-p-mentha-1,8-diene, d-limonene (5989-27-5)  IARC group 3 - Not classifiable  Benzyl acetate (140-11-4)	LD50 oral rat	4720 mg/kg (Source: NZ_CCID)		
Additional information : Based on available data, the classification criteria are not met  Serious eye damage/irritation : Not classified  Additional information : Based on available data, the classification criteria are not met  Respiratory or skin sensitization : Not classified  Additional information : Based on available data, the classification criteria are not met  Germ cell mutagenicity : Not classified  Additional information : Based on available data, the classification criteria are not met  Carcinogenicity : Not classified  Additional information : Based on available data, the classification criteria are not met  (R)-p-mentha-1,8-diene, d-limonene (5989-27-5)  IARC group 3 - Not classifiable  Benzyl acetate (140-11-4)	LD50 dermal rabbit	3560 mg/kg (Source: NLM_CIP)		
Serious eye damage/irritation : Not classified Additional information : Based on available data, the classification criteria are not met Respiratory or skin sensitization : Not classified Additional information : Based on available data, the classification criteria are not met Germ cell mutagenicity : Not classified Additional information : Based on available data, the classification criteria are not met Carcinogenicity : Not classified Additional information : Based on available data, the classification criteria are not met  (R)-p-mentha-1,8-diene, d-limonene (5989-27-5)  IARC group 3 - Not classifiable  Benzyl acetate (140-11-4)				
Additional information : Based on available data, the classification criteria are not met  Respiratory or skin sensitization : Not classified  Additional information : Based on available data, the classification criteria are not met  Germ cell mutagenicity : Not classified  Additional information : Based on available data, the classification criteria are not met  Carcinogenicity : Not classified  Additional information : Based on available data, the classification criteria are not met  (R)-p-mentha-1,8-diene, d-limonene (5989-27-5)  IARC group 3 - Not classifiable  Benzyl acetate (140-11-4)				
Additional information : Based on available data, the classification criteria are not met  Germ cell mutagenicity : Not classified  Additional information : Based on available data, the classification criteria are not met  Carcinogenicity : Not classified  Additional information : Based on available data, the classification criteria are not met  (R)-p-mentha-1,8-diene, d-limonene (5989-27-5)  IARC group 3 - Not classifiable  Benzyl acetate (140-11-4)				
Germ cell mutagenicity : Not classified Additional information : Based on available data, the classification criteria are not met Carcinogenicity : Not classified Additional information : Based on available data, the classification criteria are not met  (R)-p-mentha-1,8-diene, d-limonene (5989-27-5)  IARC group 3 - Not classifiable  Benzyl acetate (140-11-4)				
Additional information : Based on available data, the classification criteria are not met  Carcinogenicity : Not classified  Additional information : Based on available data, the classification criteria are not met  (R)-p-mentha-1,8-diene, d-limonene (5989-27-5)  IARC group 3 - Not classifiable  Benzyl acetate (140-11-4)				
Carcinogenicity : Not classified Additional information : Based on available data, the classification criteria are not met  (R)-p-mentha-1,8-diene, d-limonene (5989-27-5)  IARC group 3 - Not classifiable  Benzyl acetate (140-11-4)				
Additional information : Based on available data, the classification criteria are not met  (R)-p-mentha-1,8-diene, d-limonene (5989-27-5)  IARC group 3 - Not classifiable  Benzyl acetate (140-11-4)				
IARC group 3 - Not classifiable  Benzyl acetate (140-11-4)		Based on available data, the classification criteria are not met		
Benzyl acetate (140-11-4)	(R)-p-mentha-1,8-diene, d-limonene (5989-27-5)			
	IARC group	3 - Not classifiable		
IARC group 3 - Not classifiable	Benzyl acetate (140-11-4)			
	IARC group	3 - Not classifiable		
Reproductive toxicity : Not classified Additional information : Based on available data, the classification criteria are not met				

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STOT-single exposure : Not classified

Additional information : Based on available data, the classification criteria are not met

STOT-repeated exposure : Not classified

Additional information Based on available data, the classification criteria are not met

Aspiration hazard : Not classified

Additional information Based on available data, the classification criteria are not met

benzyl benzoate (120-51-4)

Viscosity, kinematic 7.456 mm<sup>2</sup>/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

symptoms

: Based on available data, the classification criteria are not met

ANDLECRAFT

# **SECTION 12: Ecological information**

## 12.1. Toxicity

Ecology - general : Harmful to aquatic life with long lasting effects.

: Not classified

Hazardous to the aquatic environment, short-term Hazardous to the aquatic environment, long-term

: Harmful 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		
Vertenex (32210-23-4)			
LC50 - Fish [1] 8.6 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static] Source: ECH			
(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)		
citral (5392-40-5)			
EC50 - Crustacea [1]	7 mg/l (Exposure time: 48 h - Species: Daphnia magna)		
EC50 72h - Algae [1]	16 mg/l (Species: Desmodesmus subspicatus)		
EC50 96h - Algae [1] 19 mg/l (Species: Desmodesmus subspicatus)			
Alcohol C-10 (112-30-1)			
LC50 - Fish [1]	2.2 – 2.5 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)		
LC50 - Fish [2]	4.12 – 6.2 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: EPA)		

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Alcohol C-10 (112-30-1)		
EC50 - Crustacea [1]	3 mg/l (Exposure time: 48 h - Species: Daphnia magna)	

# 12.2. Persistence and degradability

VILLOW MOON CC-16368 5% in DPG	
Persistence and degradability	Not established.
benzyl benzoate (120-51-4)	
Persistence and degradability	May cause long-term adverse effects in the environment.

# 12.3. Bioaccumulative potential

WILLOW MOON CC-16368 5% in DPG		
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.	
Vertenex (32210-23-4)		
Partition coefficient n-octanol/water (Log Pow)	4.8 (at 25 °C)	
(R)-p-mentha-1,8-diene, d-limonene (5989-27-5)		
Partition coefficient n-octanol/water (Log Pow)	4.38 (at 37 °C (at pH 7.2)	
Hexyl salicylate (6259-76-3)		
Partition coefficient n-octanol/water (Log Pow)	5.5 (at 30 °C (at pH 7)	
Benzyl acetate (140-11-4)		
Partition coefficient n-octanol/water (Log Pow)	1.96 (at 25 °C (at pH 7)	
.alphaPinene (80-56-8)		
Partition coefficient n-octanol/water (Log Pow)	4.1	
citral (5392-40-5)		
Partition coefficient n-octanol/water (Log Pow)	2.76 (at 25 °C)	
Alcohol C-10 (112-30-1)		
Partition coefficient n-octanol/water (Log Pow)	4.5 (at 25 °C (at pH 6)	
isopentyl acetate (123-92-2)		
Partition coefficient n-octanol/water (Log Pow)	2.7 (at 35 °C)	

# 12.4. Mobility in soil

No additional information available

## 12.5. Results of PBT and vPvB assessment

No additional information available

# 12.6. Endocrine disrupting properties

No additional information available

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#### 12.7. Other adverse effects

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 °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.

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	14.1. UN number or ID number			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

#### 14.6. Special precautions for user

#### Overland transport

Not applicable

#### Transport by sea

Not applicable

#### Air transport

Not applicable

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#### **Inland waterway transport**

Not applicable

#### Rail transport

Not applicable

# 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

# **SECTION 15: Regulatory information**

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

#### 15.1.1. EU-Regulations

#### **REACH Annex XVII (Restriction List)**

EU restriction list (REA	EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description	
3(a)	(R)-p-mentha-1,8-diene, d-limonene; dipentene, limonene; .alphaPinene ; isopentyl acetate	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F	
3(b)	benzyl benzoate; Iso E Super; Vertenex; (R)-p- mentha-1,8-diene, d- limonene; Cedarwood oil, Virginia; Hexyl salicylate; dipentene, limonene; citral  Substances or mixtures fulfilling the criteria for any of the following hazard class categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classe 3.7 adverse effects on sexual function and fertility or on development, 3.8 effect than narcotic effects, 3.9 and 3.10		
3(c)	WILLOW MOON CC- 16368 5% in DPG; benzyl benzoate; Iso E Super; (R)-p-mentha-1,8- diene, d-limonene; Cedarwood oil, Virginia; Hexyl salicylate; Benzyl acetate; dipentene, limonene; Alcohol C-10	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	
40.	(R)-p-mentha-1,8-diene, d-limonene; dipentene, limonene; .alphaPinene ; isopentyl acetate	Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.	

#### **REACH Annex XIV (Authorisation List)**

Contains no REACH Annex XIV substances.

#### **REACH Candidate List (SVHC)**

Contains no REACH candidate substance

# PIC Regulation (Prior Informed Consent)

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

## **POP Regulation (Persistent Organic Pollutants)**

Contains no substance(s) subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

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#### Ozone Regulation (1005/2009)

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

# **Explosives Precursors Regulation (2019/1148)**

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

#### **Drug Precursors Regulation (273/2004)**

Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 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

: WGK 1, slightly hazardous to water (Classification according to AwSV, Annex 1). Water hazard class (WGK)

Storage class (LGK, TRGS 510) : LGK 12 - Non-combustible liquids.

Joint storage table

:	LGK 1	LGK 2A	LGK 2B	LGK 3	LGK 4.1A
	LGK 4.1B	LGK 4.2	LGK 4.3	LGK 5.1A	LGK 5.1B
	LGK 5.1C	LGK 5.2	LGK 6.1A	LGK 6.1B	LGK 6.1C
	LGK 6.1D	LGK 6.2	LGK 7	LGK 8A	LGK 8B
	LGK 10	LGK 11	LGK 12	LGK 13	LGK 10-13

: LGK 1, LGK 6.2, LGK 7. Joint storage not permitted for

Joint storage with restrictions permitted for : LGK 4.1A, LGK 4.3, LGK 5.1C.

: LGK 2A, LGK 2B, LGK 3, LGK 4.1B, LGK 4.2, LGK 5.1A, LGK 5.1B, LGK 5.2, LGK 6.1A, Joint storage permitted for

LGK 6.1B, LGK 6.1C, LGK 6.1D, LGK 8A, LGK 8B, LGK 10, LGK 11, LGK 12, LGK 13, LGK

: Is not subject of the Hazardous Incident Ordinance (12. BlmSchV) Hazardous Incident Ordinance (12. BImSchV)

**Netherlands** 

ABM category : A(2) - toxic for aquatic organisms, may have longterm hazardous effects in aquatic

environment

SZW-lijst van kankerverwekkende stoffen : Cedarwood oil, Virginia is listed

: Cedarwood oil, Virginia is listed SZW-lijst van mutagene stoffen SZW-lijst van reprotoxische stoffen - Borstvoeding

: None of the components are listed : None of the components are listed

SZW-lijst van reprotoxische stoffen -

: None of the components are listed

Vruchtbaarheid

SZW-lijst van reprotoxische stoffen - Ontwikkeling

#### **Denmark**

Classification remarks : Emergency management guidelines for the storage of flammable liquids must be followed **Danish National Regulations** : Pregnant/breastfeeding women working with the product must not be in direct contact with

the product

#### **Switzerland**

Storage class (LK) : LK 10/12 - Liquids

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## **SECTION 16: Other information**

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE Data sources

> COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and

amending Regulation (EC) No 1907/2006.

Other information None.

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Full text of H- and EUH-phrases:		
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	
EUH208	Contains Iso E Super, Vertenex, (R)-p-mentha-1,8-diene, d-limonene, Hexyl salicylate. May produce an allergic reaction.	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Flam. Liq. 3	Flammable liquids Category 3	
H226	Flammable liquid and vapor.	
H302	Harmful if swallowed.	
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.	
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 sensitization, Category 1	
Skin Sens. 1B	Skin sensitization, 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.