

# Silver Cedar CC-13041

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Issue date: 10/1/2020

# CandleCraft

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

### 1.1. Product identifier

Product form	: Mixture
Product name	: Silver Cedar
UFI	: GP8F-V3AQ-0009-7MK0
Product code	: CC-13041
Type of product	: Perfumes, Fragrances
Product group	: Finished Good

### 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	: For professional use only Industrial
Use of the substance/mixture	: Perfumes, Fragrances
Function or use category	: Odour agents

#### 1.2.2. Uses advised against

No additional information available

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

Candle Craft  
65510 Idstein  
Deutschland / 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]

Serious eye damage/eye irritation, Category 2	H319
Skin sensitization, Category 1	H317
Hazardous to the aquatic environment - Chronic Hazard Category 2	H411
Full text of H statements : see section 16	

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

May cause an allergic skin reaction. Causes serious eye irritation. Toxic to aquatic life with long lasting effects.

### 2.2. Label elements

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

Hazard pictograms (CLP) :



GHS07

GHS09

Signal word (CLP) :

Warning

Hazardous ingredients

: Lemon oil ; Linalool; Linalyl acetate; Citral; Vertenex; delta-Damascone; Iso E Super; acetyl cedrene; 2-Hydroxybenzoic acid, benzyl ester; Cedramber; Fir Needle oil, Siberian; d-Limonene; Triplal (Vertocitral)

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Hazard statements (CLP)	: H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H411 - Toxic to aquatic life with long lasting effects.
Precautionary statements (CLP)	: P264 - Wash hands, forearms and face thoroughly after handling. P272 - Contaminated work clothing should not be allowed out of the workplace. P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P302+P352 - IF ON SKIN: Wash with plenty of water. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 - If eye irritation persists: Get medical advice/attention.

### 2.3. Other hazards

No additional information available

## 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]
Linalyl acetate	(CAS-No.) 115-95-7 (EC-No.) 204-116-4 (REACH-no) 01-2119454789-19	1.3 – 2.6	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
Tetrahydrolinalool	(CAS-No.) 78-69-3 (EC-No.) 201-133-9	1.165 – 2.33	Skin Irrit. 2, H315 Eye Irrit. 2, H319
2-Isobutyl-4-methyltetrahydro-2H-pyran-4-ol	(CAS-No.) 63500-71-0 (EC-No.) 405-040-6 (EC Index-No.) 603-101-00-3 (REACH-no) 01-000015458-64	0.5875 – 1.958255	Eye Irrit. 2, H319
Cedarwood oil, Texas	(CAS-No.) 68990-83-0 (EC-No.) 294-461-7;614-888-8	0.95 – 1.9	Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Iso E Super	(CAS-No.) 54464-57-2 (EC-No.) 259-174-3 (REACH-no) 01-2119489989-04	0.875 – 1.75	Skin Sens. 1, H317 Aquatic Chronic 2, H411
Linalool	(CAS-No.) 78-70-6 (EC-No.) 201-134-4 (EC Index-No.) 603-235-00-2 (REACH-no) 01-2119474016-42	0.7 – 1.4	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
Ethylene brassylate	(CAS-No.) 105-95-3 (EC-No.) 203-347-8 (REACH-no) 01-2119967772-24	0.7 – 1.4	Aquatic Chronic 2, H411
Lemon oil	(CAS-No.) 8008-56-8 (EC-No.) 284-515-8;616-925-3	0.675 – 1.35	Flam. Liq. 3, H226 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	0.675 – 1.35	Skin Sens. 1B, H317

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ACETYL HEXAMETHYL TETRALIN	(CAS-No.) 21145-77-7 (EC-No.) 244-240-6	0.675 – 1.35	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Diethyl malonate	(CAS-No.) 105-53-3 (EC-No.) 203-305-9 (REACH-no) 01-2119886972-18	0.675 – 1.35	Eye Irrit. 2, H319
2-Hydroxybenzoic acid, benzyl ester	(CAS-No.) 118-58-1 (EC-No.) 204-262-9 (REACH-no) 01-2119969442-31	0.6 – 1.2	Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 3, H412
acetyl cedrene	(CAS-No.) 32388-55-9 (EC-No.) 251-020-3 (REACH-no) 01-2119969651-28	0.425 – 0.85	Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
d-Limonene	(CAS-No.) 5989-27-5 (EC-No.) 227-813-5 (EC Index-No.) 601-029-00-7 (REACH-no) 01-2119493353-35	0.425 – 0.85	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Fir Needle oil, Siberian	(CAS-No.) 8021-29-2 (EC-No.) 290-163-6;617-005-4	0.25 – 0.5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Chronic 1, H410
Triplal (Vertocitral)	(CAS-No.) 68039-49-6 (EC-No.) 268-264-1	0.225 – 0.45	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412
Musk ketone	(CAS-No.) 81-14-1 (EC-No.) 201-328-9 (EC Index-No.) 609-069-00-7	0.175 – 0.35	Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Cedramber	(CAS-No.) 19870-74-7 (EC-No.) 243-384-7	0.1 – 0.2	Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Skin Sens. 1B, H317
Citral	(CAS-No.) 5392-40-5 (EC-No.) 226-394-6 (EC Index-No.) 605-019-00-3 (REACH-no) 01-2119462829-23	0.05 – 0.1	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
delta-Damascone	(CAS-No.) 57378-68-4 (EC-No.) 260-709-8	0.05 – 0.1	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 1, H410
Diphenyl oxide substance with a Community workplace exposure limit	(CAS-No.) 101-84-8 (EC-No.) 202-981-2 (REACH-no) 01-2119472545-33	0 – 0.05	Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H-phrases: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

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First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.

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

Symptoms/effects after skin contact : May cause an allergic skin reaction.  
Symptoms/effects after eye contact : Eye irritation.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

### 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

Protection during firefighting : 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. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray.

#### 6.1.2. For emergency responders

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

### 6.2. Environmental precautions

Avoid release to the environment.

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

For containment : Collect spillage.  
Methods for cleaning up : Take up liquid spill into absorbent material.  
Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

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. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Wear personal protective equipment.  
Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

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### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

<b>Citral (5392-40-5)</b>	
<b>Belgium - Occupational Exposure Limits</b>	
Limit value [mg/m <sup>3</sup> ]	32 mg/m <sup>3</sup> (vapor and aerosol)
Limit value [ppm]	5 ppm (vapor and aerosol)
OEL chemical category (BE)	Skin
<b>Ireland - Occupational Exposure Limits</b>	
OEL (8 hours ref) (ppm)	5 ppm
OEL (15 min ref) (ppm)	15 ppm (calculated)
<b>Poland - Occupational Exposure Limits</b>	
NDS (mg/m <sup>3</sup> )	27 mg/m <sup>3</sup>
NDSch (mg/m <sup>3</sup> )	54 mg/m <sup>3</sup>
<b>Portugal - Occupational Exposure Limits</b>	
OEL TWA (ppm)	5 ppm
OEL chemical category (PT)	Sensitizer, skin - potential for cutaneous exposure
<b>Spain - Occupational Exposure Limits</b>	
VLA-ED (ppm)	5 ppm (inhalable fraction and vapor)
OEL chemical category (ES)	Sensitizer, skin - potential for cutaneous absorption
<b>USA - ACGIH - Occupational Exposure Limits</b>	
ACGIH TWA (ppm)	5 ppm (inhalable fraction and vapor)
ACGIH chemical category	dermal sensitizer, Skin - potential significant contribution to overall exposure by the cutaneous route, Not Classifiable as a Human Carcinogen

<b>Diphenyl oxide (101-84-8)</b>	
<b>EU - Occupational Exposure Limits</b>	
IOELV TWA (mg/m <sup>3</sup> )	7 mg/m <sup>3</sup>
IOELV TWA (ppm)	1 ppm
IOELV STEL (mg/m <sup>3</sup> )	14 mg/m <sup>3</sup>
IOELV STEL (ppm)	2 ppm
<b>Austria - Occupational Exposure Limits</b>	
MAK [mg/m <sup>3</sup> ]	7 mg/m <sup>3</sup>
MAK [ppm]	1 ppm
MAK Short time value [mg/m <sup>3</sup> ]	14 mg/m <sup>3</sup>
MAK Short time value [ppm]	2 ppm
<b>Belgium - Occupational Exposure Limits</b>	
Limit value [mg/m <sup>3</sup> ]	7 mg/m <sup>3</sup> (vapor)
Limit value [ppm]	1 ppm (vapor)

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Short time value [mg/m <sup>3</sup> ]	14 mg/m <sup>3</sup> (vapor)
Short time value [ppm]	2 ppm (vapor)
<b>Bulgaria - Occupational Exposure Limits</b>	
OEL TWA (mg/m <sup>3</sup> )	7 mg/m <sup>3</sup>
OEL TWA (ppm)	1 ppm
OEL STEL (mg/m <sup>3</sup> )	14 mg/m <sup>3</sup>
OEL STEL (ppm)	2 ppm
<b>Croatia - Occupational Exposure Limits</b>	
GVI (granična vrijednost izloženosti) (mg/m <sup>3</sup> )	7 mg/m <sup>3</sup>
GVI (granična vrijednost izloženosti) (ppm)	1 ppm
KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m <sup>3</sup> )	14 mg/m <sup>3</sup>
KGVI (kratkotrajna granična vrijednost izloženosti) (ppm)	2 ppm
<b>Cyprus - Occupational Exposure Limits</b>	
OEL TWA (mg/m <sup>3</sup> )	7 mg/m <sup>3</sup>
OEL TWA (ppm)	1 ppm
OEL STEL (mg/m <sup>3</sup> )	14 mg/m <sup>3</sup>
OEL STEL (ppm)	2 ppm
<b>Czech Republic - Occupational Exposure Limits</b>	
Exposure limits (PEL) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
<b>Denmark - Occupational Exposure Limits</b>	
Grænseværdi (8 timer) (mg/m <sup>3</sup> )	7 mg/m <sup>3</sup>
Grænseværdi (8 timer) (ppm)	1 ppm
<b>Estonia - Occupational Exposure Limits</b>	
OEL TWA (mg/m <sup>3</sup> )	7 mg/m <sup>3</sup>
OEL TWA (ppm)	1 ppm
OEL STEL (mg/m <sup>3</sup> )	14 mg/m <sup>3</sup>
OEL STEL (ppm)	2 ppm
<b>Finland - Occupational Exposure Limits</b>	
HTP-arvo (8h) (mg/m <sup>3</sup> )	7 mg/m <sup>3</sup>
HTP-arvo (8h) (ppm)	1 ppm
HTP-arvo (15 min)	14 mg/m <sup>3</sup>
HTP-arvo (15 min) (ppm)	2 ppm
<b>France - Occupational Exposure Limits</b>	
VME [mg/m <sup>3</sup> ]	7 mg/m <sup>3</sup>
VME [ppm]	1 ppm
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
Occupational exposure limit value (mg/m <sup>3</sup> )	7.1 mg/m <sup>3</sup> (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed-vapor)
Occupational exposure limit value (ppm)	1 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed-vapor)

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<b>Gibraltar - Occupational Exposure Limits</b>	
Eight hours mg/m <sup>3</sup>	7 mg/m <sup>3</sup>
Eight hours ppm	1 ppm
Short-term mg/m <sup>3</sup>	14 mg/m <sup>3</sup>
Short-term ppm	200 ppm
<b>Greece - Occupational Exposure Limits</b>	
OEL TWA (mg/m <sup>3</sup> )	7 mg/m <sup>3</sup>
OEL TWA (ppm)	1 ppm
OEL STEL (mg/m <sup>3</sup> )	14 mg/m <sup>3</sup>
OEL STEL (ppm)	2 ppm
<b>Hungary - Occupational Exposure Limits</b>	
Exposure Limit Value	7 mg/m <sup>3</sup>
CK-érték	14 mg/m <sup>3</sup>
<b>Ireland - Occupational Exposure Limits</b>	
OEL (8 hours ref) (mg/m <sup>3</sup> )	7 mg/m <sup>3</sup> (vapour)
OEL (8 hours ref) (ppm)	1 ppm (vapour)
OEL (15 min ref) (mg/m <sup>3</sup> )	14 mg/m <sup>3</sup> (vapour)
OEL (15 min ref) (ppm)	2 ppm (vapour)
<b>Latvia - Occupational Exposure Limits</b>	
OEL TWA (mg/m <sup>3</sup> )	7 mg/m <sup>3</sup>
OEL TWA (ppm)	1 ppm
<b>Lithuania - Occupational Exposure Limits</b>	
IPRV (mg/m <sup>3</sup> )	7 mg/m <sup>3</sup>
IPRV (ppm)	1 ppm
TPRV (mg/m <sup>3</sup> )	14 mg/m <sup>3</sup>
TPRV (ppm)	2 ppm
<b>Luxembourg - Occupational Exposure Limits</b>	
OEL TWA (mg/m <sup>3</sup> )	7 mg/m <sup>3</sup>
OEL TWA (ppm)	1 ppm
OEL STEL (mg/m <sup>3</sup> )	14 mg/m <sup>3</sup>
OEL STEL (ppm)	2 ppm
<b>Malta - Occupational Exposure Limits</b>	
OEL TWA (mg/m <sup>3</sup> )	7 mg/m <sup>3</sup>
OEL TWA (ppm)	1 ppm
OEL STEL (mg/m <sup>3</sup> )	14 mg/m <sup>3</sup>
OEL STEL (ppm)	2 ppm
<b>Netherlands - Occupational Exposure Limits</b>	
Grenswaarde TGG 8H (mg/m <sup>3</sup> )	7 mg/m <sup>3</sup>
Grenswaarde TGG 15MIN (mg/m <sup>3</sup> )	14 mg/m <sup>3</sup>
<b>Poland - Occupational Exposure Limits</b>	
NDS (mg/m <sup>3</sup> )	7 mg/m <sup>3</sup>

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NDSCh (mg/m <sup>3</sup> )	14 mg/m <sup>3</sup>
<b>Portugal - Occupational Exposure Limits</b>	
OEL TWA (mg/m <sup>3</sup> )	7 mg/m <sup>3</sup>
OEL TWA (ppm)	1 ppm (vapor)
OEL STEL (mg/m <sup>3</sup> )	14 mg/m <sup>3</sup> (indicative limit value)
OEL STEL (ppm)	2 ppm (indicative limit value-vapor)
<b>Romania - Occupational Exposure Limits</b>	
OEL TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
OEL TWA (ppm)	0.7 ppm
OEL STEL (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
OEL STEL (ppm)	1.4 ppm
<b>Slovakia - Occupational Exposure Limits</b>	
NPHV (priemerná) (mg/m <sup>3</sup> )	7 mg/m <sup>3</sup>
NPHV (priemerná) (ppm)	1 ppm
NPHV (Hraničná) (mg/m <sup>3</sup> )	7.1 mg/m <sup>3</sup>
<b>Slovenia - Occupational Exposure Limits</b>	
OEL TWA (mg/m <sup>3</sup> )	7 mg/m <sup>3</sup>
OEL TWA (ppm)	1 ppm
OEL STEL (mg/m <sup>3</sup> )	14 mg/m <sup>3</sup>
OEL STEL (ppm)	2 ppm
<b>Spain - Occupational Exposure Limits</b>	
VLA-ED (mg/m <sup>3</sup> )	7.1 mg/m <sup>3</sup> (vapor)
VLA-ED (ppm)	1 ppm (vapor)
VLA-EC (mg/m <sup>3</sup> )	14.2 mg/m <sup>3</sup> (vapor)
VLA-EC (ppm)	2 ppm (vapor)
<b>Sweden - Occupational Exposure Limits</b>	
nivågränsvärde (NVG) (mg/m <sup>3</sup> )	7 mg/m <sup>3</sup>
nivågränsvärde (NVG) (ppm)	1 ppm
kortidsvärde (KTV) (mg/m <sup>3</sup> )	14 mg/m <sup>3</sup>
kortidsvärde (KTV) (ppm)	2 ppm
<b>United Kingdom - Occupational Exposure Limits</b>	
WEL TWA (mg/m <sup>3</sup> )	7.1 mg/m <sup>3</sup> (vapour)
WEL TWA (ppm)	1 ppm (vapour)
WEL STEL (mg/m <sup>3</sup> )	21.3 mg/m <sup>3</sup> (calculated-vapour)
WEL STEL [ppm]	3 ppm (calculated-vapour)
<b>Norway - Occupational Exposure Limits</b>	
TWA (AN) (mg/m <sup>3</sup> )	7 mg/m <sup>3</sup>
TWA (AN) (ppm)	1 ppm
TWA (Korttidsverdi) (mg/m <sup>3</sup> )	14 mg/m <sup>3</sup> (value calculated)
TWA (Korttidsverdi) (ppm)	2 ppm (value calculated)

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<b>Switzerland - Occupational Exposure Limits</b>	
MAK (mg/m <sup>3</sup> )	7 mg/m <sup>3</sup> (aerosol, vapour)
MAK (ppm)	1 ppm (aerosol, vapour)
KZGW (mg/m <sup>3</sup> )	7 mg/m <sup>3</sup> (aerosol, vapour)
KZGW (ppm)	1 ppm (aerosol, vapour)
OEL chemical category (CH)	Category 2 developmental toxin, Category 2 reproductive toxin
<b>USA - ACGIH - Occupational Exposure Limits</b>	
ACGIH TWA (ppm)	1 ppm (vapor)
ACGIH STEL (ppm)	2 ppm (vapor fraction)
<b>Musk ketone (81-14-1)</b>	
<b>Austria - Occupational Exposure Limits</b>	
OEL chemical category (AT)	Group B Carcinogen
<b>d-Limonene (5989-27-5)</b>	
<b>Finland - Occupational Exposure Limits</b>	
HTP-arvo (8h) (mg/m <sup>3</sup> )	140 mg/m <sup>3</sup>
HTP-arvo (8h) (ppm)	25 ppm
HTP-arvo (15 min)	280 mg/m <sup>3</sup>
HTP-arvo (15 min) (ppm)	50 ppm
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
Occupational exposure limit value (mg/m <sup>3</sup> )	28 mg/m <sup>3</sup> (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Occupational exposure limit value (ppm)	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
<b>Slovenia - Occupational Exposure Limits</b>	
OEL TWA (mg/m <sup>3</sup> )	28 mg/m <sup>3</sup>
OEL TWA (ppm)	5 ppm
OEL STEL (mg/m <sup>3</sup> )	112 mg/m <sup>3</sup>
OEL STEL (ppm)	20 ppm
OEL chemical category (SI)	Potential for cutaneous absorption
<b>Spain - Occupational Exposure Limits</b>	
VLA-ED (mg/m <sup>3</sup> )	168 mg/m <sup>3</sup>
VLA-ED (ppm)	30 ppm
OEL chemical category (ES)	Sensitizer, skin - potential for cutaneous absorption
<b>Norway - Occupational Exposure Limits</b>	
TWA (AN) (mg/m <sup>3</sup> )	140 mg/m <sup>3</sup>
TWA (AN) (ppm)	25 ppm
TWA (Korttidsverdi) (mg/m <sup>3</sup> )	175 mg/m <sup>3</sup> (value calculated)
TWA (Korttidsverdi) (ppm)	37.5 ppm (value calculated)
OEL chemical category (NO)	Sensitizing substance

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### Switzerland - Occupational Exposure Limits

MAK (mg/m <sup>3</sup> )	40 mg/m <sup>3</sup>
MAK (ppm)	7 ppm
KZGW (mg/m <sup>3</sup> )	80 mg/m <sup>3</sup>
KZGW (ppm)	14 ppm
OEL chemical category (CH)	Sensitizer

### 8.2. Exposure controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### Hand protection:

Protective gloves

#### Eye protection:

Safety glasses

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

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



#### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Color	: light yellow. amber.
Odor	: characteristic.
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 90 °C (closed cup) ASTM D7094
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: 0.95
Solubility	: No data available

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Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosion limits	: No data available

### 9.2. Other information

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

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

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

<b>Lemon oil (8008-56-8)</b>	
LD50 oral rat	2840 mg/kg

<b>Tetrahydrolinalool (78-69-3)</b>	
LD50 oral rat	> 5 g/kg
LD50 dermal rabbit	> 5000 mg/kg

<b>Linalool (78-70-6)</b>	
LD50 oral	2790 mg/kg body weight

<b>Linalyl acetate (115-95-7)</b>	
LD50 oral rat	14550 mg/kg
LD50 dermal rabbit	> 5000 mg/kg

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### Citral (5392-40-5)

LD50 oral rat	4960 mg/kg
LD50 dermal rabbit	2250 mg/kg
LD50 dermal	2250 mg/kg body weight

### Vertenex (32210-23-4)

LD50 oral rat	5 g/kg
LD50 oral	3370 mg/kg body weight
LD50 dermal rabbit	> 5000 mg/kg

### delta-Damascone (57378-68-4)

LD50 oral	1400 mg/kg body weight
-----------	------------------------

### Diphenyl oxide (101-84-8)

LD50 oral rat	2450 mg/kg
LD50 oral	2830 mg/kg body weight
LD50 dermal rabbit	> 7940 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	1.5 mg/l/4h

### acetyl cedrene (32388-55-9)

LD50 oral	4500 mg/kg body weight
-----------	------------------------

### Ethylene brassylate (105-95-3)

LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg

### 2-Hydroxybenzoic acid, benzyl ester (118-58-1)

LD50 oral rat	2227 mg/kg
LD50 oral	2200 mg/kg body weight
LD50 dermal rabbit	> 5000 mg/kg

### ACETYL HEXAMETHYL TETRALIN (21145-77-7)

LD50 oral rat	570 mg/kg
LD50 oral	1000 mg/kg body weight
LD50 dermal rabbit	> 5 g/kg

### Musk ketone (81-14-1)

LD50 oral rat	10 g/kg
LD50 dermal rabbit	> 10 g/kg

### Diethyl malonate (105-53-3)

LD50 oral rat	14900 µl/kg
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### Fir Needle oil, Siberian (8021-29-2)

LD50 oral rat	10200 mg/kg
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### d-Limonene (5989-27-5)

LD50 oral rat	4400 mg/kg
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LD50 dermal rabbit	> 5 g/kg
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### Triplal (Vertocitral) (68039-49-6)

LD50 oral	3900 mg/kg body weight
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Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

### d-Limonene (5989-27-5)

IARC group	3 - Not classifiable
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Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general	: Toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Toxic to aquatic life with long lasting effects.

### Tetrahydroinalool (78-69-3)

LC50 fish 1	8.9 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static])
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### Linalool (78-70-6)

EC50 96h algae (1)	88.3 mg/l (Species: Desmodemus subspicatus)
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### Linalyl acetate (115-95-7)

LC50 fish 1	11 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [flow-through])
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### Citral (5392-40-5)

EC50 Daphnia 1	7 mg/l (Exposure time: 48 h - Species: Daphnia magna)
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EC50 72h algae 1	16 mg/l (Species: Desmodemus subspicatus)
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EC50 96h algae (1)	19 mg/l (Species: Desmodemus subspicatus)
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### Vertenex (32210-23-4)

LC50 fish 1	8.6 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static])
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### 2-Hydroxybenzoic acid, benzyl ester (118-58-1)

LC50 fish 1	1.03 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static])
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### Diethyl malonate (105-53-3)

LC50 fish 1	10.3 – 13.4 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
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EC50 Daphnia 1	202.3 mg/l (Exposure time: 48 h - Species: Daphnia magna)
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EC50 72h algae 1	508.2 mg/l (Species: Desmodesmus subspicatus)
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### d-Limonene (5989-27-5)

LC50 fish 1	0.619 – 0.796 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
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LC50 fish 2	35 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
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## 12.2. Persistence and degradability

### Cedarwood oil, Texas (68990-83-0)

Persistence and degradability	Not established.
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## 12.3. Bioaccumulative potential

### Citral (5392-40-5)

Partition coefficient n-octanol/water (Log Pow)	2.76 (at 25 °C)
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### Diphenyl oxide (101-84-8)

BCF fish 1	470
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Partition coefficient n-octanol/water (Log Pow)	4.2
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### Cedarwood oil, Texas (68990-83-0)

Bioaccumulative potential	Not established.
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### Diethyl malonate (105-53-3)

Partition coefficient n-octanol/water (Log Pow)	0.96
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## 12.4. Mobility in soil

No additional information available

## 12.5. Results of PBT and vPvB assessment

No additional information available

## 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

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### SECTION 14: Transport information

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

#### 14.1. UN number

UN-No. (ADR)	: UN 3082
UN-No. (IMDG)	: UN 3082
UN-No. (IATA)	: UN 3082
UN-No. (ADN)	: Not regulated
UN-No. (RID)	: Not applicable

#### 14.2. UN proper shipping name

Proper Shipping Name (ADR)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Proper Shipping Name (IMDG)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Proper Shipping Name (IATA)	: Environmentally hazardous substance, liquid, n.o.s.
Proper Shipping Name (ADN)	: Not regulated
Proper Shipping Name (RID)	: Not applicable
Transport document description (ADR)	: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cedarwood oil), 9, III, (-)
Transport document description (IMDG)	: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cedarwood oil), 9, III, MARINE POLLUTANT
Transport document description (IATA)	: UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Cedarwood oil), 9, III

#### 14.3. Transport hazard class(es)

##### ADR

Transport hazard class(es) (ADR)	: 9
Hazard labels (ADR)	: 9



##### IMDG

Transport hazard class(es) (IMDG)	: 9
Hazard labels (IMDG)	: 9



##### IATA

Transport hazard class(es) (IATA)	: 9
Hazard labels (IATA)	: 9



##### ADN

Transport hazard class(es) (ADN)	: Not regulated
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##### RID

Transport hazard class(es) (RID)	: Not applicable
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#### 14.4. Packing group

Packing group (ADR)	: III
Packing group (IMDG)	: III
Packing group (IATA)	: III

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Packing group (ADN) : Not regulated  
Packing group (RID) : Not applicable

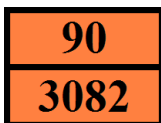
### 14.5. Environmental hazards

Dangerous for the environment : Yes  
Marine pollutant : Yes  
Other information : No supplementary information available

### 14.6. Special precautions for user

#### Overland transport

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



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

#### Transport by sea

Special provision (IMDG) : 274, 335, 969  
Limited quantities (IMDG) : 5 L  
Excepted quantities (IMDG) : E1  
Packing instructions (IMDG) : LP01, P001  
Packing provisions (IMDG) : PP1  
IBC packing instructions (IMDG) : IBC03  
Tank instructions (IMDG) : T4  
Tank special provisions (IMDG) : TP1, TP29  
EmS-No. (Fire) : F-A  
EmS-No. (Spillage) : S-F  
Stowage category (IMDG) : A

#### Air transport

PCA Excepted quantities (IATA) : E1  
PCA Limited quantities (IATA) : Y964  
PCA limited quantity max net quantity (IATA) : 30kgG  
PCA packing instructions (IATA) : 964  
PCA max net quantity (IATA) : 450L  
CAO packing instructions (IATA) : 964  
CAO max net quantity (IATA) : 450L  
Special provision (IATA) : A97, A158, A197  
ERG code (IATA) : 9L

#### Inland waterway transport

Not regulated

#### Rail transport

Not applicable

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### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

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

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

Reference code	Applicable
3(a)	Lemon oil ; Fir Needle oil, Siberian ; d-Limonene
3(b)	Silver Cedar CC-13041 ; Lemon oil ; Tetrahydrolinalool ; Linalool ; Linalyl acetate ; Citral ; Vertenex ; delta-Damascone ; 2-Isobutyl-4-methyltetrahydro-2H-pyran-4-ol ; Iso E Super ; acetyl cedrene ; 2-Hydroxybenzoic acid, benzyl ester ; Musk ketone ; Cedarwood oil, Texas ; Cedramber ; Diethyl malonate ; Fir Needle oil, Siberian ; d-Limonene ; Triplal (Vertocitral)
3(c)	Silver Cedar CC-13041 ; Lemon oil ; delta-Damascone ; Iso E Super ; acetyl cedrene ; Ethylene brassylate ; 2-Hydroxybenzoic acid, benzyl ester ; Musk ketone ; Cedarwood oil, Texas ; Cedramber ; Fir Needle oil, Siberian ; d-Limonene ; Triplal (Vertocitral)
40.	Lemon oil ; Fir Needle oil, Siberian ; d-Limonene

Contains no REACH candidate substance

Contains no REACH Annex XIV substances.

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.

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

#### 15.1.2. National regulations

##### Germany

Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG)  
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG)

Water hazard class (WGK) : WGK 2, significant hazardous to water (Classification according to AwSV, Annex 1)

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

##### Netherlands

SZW-lijst van kankerverwekkende stoffen : Lemon oil ,Cedarwood oil, Texas ,Triplal (Vertocitral) are listed

SZW-lijst van mutagene stoffen : Lemon oil ,Triplal (Vertocitral) are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

##### Denmark

Class for fire hazard : Class III-1

Store unit : 50 liter

Classification remarks : Flammable according to the Danish Ministry of Justice; Emergency management guidelines for the storage of flammable liquids must be followed

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product  
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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### SECTION 16: Other information

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

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
Carc. 2	Carcinogenicity Category 2
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids Category 3

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Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization, Category 1
Skin Sens. 1B	Skin sensitization, Category 1B
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.
H351	Suspected of causing cancer.
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.

SDS EU (REACH Annex II)

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.