

Nutmeg CC-16114

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830
Issue date: 7/27/2020 Revision date: 7/9/2021 Version: 1.0



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

1.1. Product identifier

Product form : Mixture
Product name : Nutmeg CC-16114
UFI : W5UX-C3DQ-A00J-T5GK
Product code : CC-16114
Type of product : Perfumes, Fragrances
Product group : Trade product

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

1.2.1. Relevant identified uses

Main use category : Industrial use, Professional use
Industrial/Professional use spec : For professional use only
Industrial
Use of the substance/mixture : Perfumes, Fragrances

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

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

1.4. Emergency telephone number

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Skin corrosion/irritation Category 2 H315
Serious eye damage/eye irritation, Category 2 H319
Skin 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

Causes skin irritation. 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

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Contains	: Acetyl diisoamylene; 2-Hydroxybenzoic acid, benzyl ester; Cinnamic aldehyde; beta-Caryophyllene; Clove leaf oil ; delta-Damascone; d-Limonene; Eucalyptus oil; Geraniol; zingiber officinale (ginger) root oil; Hexyl salicylate; Linalool; Linalyl acetate; Ylang ylang oil III
Hazard statements (CLP)	: H315 - Causes skin irritation. 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. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. 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]
Cinnamic aldehyde	CAS-No.: 104-55-2 EC-No.: 203-213-9 REACH-no: 01-2119935242-45	1.455 – 2.91	Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412
Linalool	CAS-No.: 78-70-6 EC-No.: 201-134-4 EC Index-No.: 603-235-00-2 REACH-no: 01-2119474016-42	1.455 – 2.91	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
Linalyl acetate	CAS-No.: 115-95-7 EC-No.: 204-116-4 REACH-no: 01-2119454789-19	1.455 – 2.91	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
Clove leaf oil	CAS-No.: 8000-34-8 EC-No.: 616-772-2	1.23 – 2.46	Eye Irrit. 2, H319 Skin Sens. 1, H317 Asp. Tox. 1, H304
beta-Caryophyllene	CAS-No.: 87-44-5 EC-No.: 201-746-1 REACH-no: 01-2120745237-53	0.89 – 1.78	Asp. Tox. 1, H304 Aquatic Chronic 4, H413 Skin Sens. 1B, H317
d-Limonene	CAS-No.: 5989-27-5 EC-No.: 227-813-5 EC Index-No.: 601-029-00-7 REACH-no: 01-2119493353-35	0.645 – 1.29	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Eucalyptus oil	CAS-No.: 8000-48-4 EC-No.: 283-406-2;286-249-8;616-775-9 REACH-no: 01-2119978250-37	0.585 – 1.17	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
2-Hydroxybenzoic acid, benzyl ester	CAS-No.: 118-58-1 EC-No.: 204-262-9 REACH-no: 01-2119969442-31	0.485 – 0.97	Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 3, H412
Ylang ylang oil III	CAS-No.: 8006-81-3 EC-No.: 281-092-1, 616-893-0	0.42 – 0.84	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Chronic 3, H412
cis-3-Hexenyl salicylate	CAS-No.: 65405-77-8 EC-No.: 265-745-8	0.325 – 0.65	Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Sandela	CAS-No.: 66068-84-6 EC-No.: 266-100-3	0.325 – 0.65	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Cedarwood oil, Texas	CAS-No.: 68990-83-0 EC-No.: 294-461-7;614-888-8	0.26 – 0.52	Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Cedarwood oil, Virginia	CAS-No.: 8000-27-9 EC-No.: 285-370-3;616-769-6	0.245 – 0.49	Asp. Tox. 1, H304 Aquatic Chronic 1, H410
Hexyl salicylate	CAS-No.: 6259-76-3 EC-No.: 228-408-6	0.195 – 0.39	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
delta-Damascone	CAS-No.: 57378-68-4 EC-No.: 260-709-8	0.16 – 0.32	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 1, H410
Acetyl diisoamylene	CAS-No.: 81786-73-4 EC-No.: 279-822-9	0.09 – 0.18	Skin Sens. 1B, H317 Aquatic Chronic 2, H411
Geraniol	CAS-No.: 106-24-1 EC-No.: 203-377-1 EC Index-No.: 603-241-00-5 REACH-no: 01-2119552430-49	0.065 – 0.13	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317
zingiber officinale (ginger) root oil	CAS-No.: 8007-08-7 EC-No.: 283-634-2, 616-904-9	0.065 – 0.13	Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Acetic acid substance with a Community workplace exposure limit	CAS-No.: 64-19-7 EC-No.: 200-580-7 EC Index-No.: 607-002-00-6	0 – 0.03	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Skin Corr. 1A, H314

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Specific concentration limits		
Name	Product identifier	Specific concentration limits
Acetic acid	CAS-No.: 64-19-7 EC-No.: 200-580-7 EC Index-No.: 607-002-00-6	(10 ≤C < 25) Eye Irrit. 2, H319 (10 ≤C < 25) Skin Irrit. 2, H315 (25 ≤C < 90) Skin Corr. 1B, H314 (90 ≤C < 100) Skin Corr. 1A, H314

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 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.
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	: Irritation. 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.
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5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire	: Toxic fumes may be released.
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5.3. Advice for firefighters

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

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment	: Collect spillage.
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Methods for cleaning up : Take up liquid spill into absorbent material.
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. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapors/spray.
Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

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

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. National occupational exposure and biological limit values

d-Limonene (5989-27-5)	
Finland - Occupational Exposure Limits	
HTP (OEL TWA) [1]	140 mg/m ³
HTP (OEL TWA) [2]	25 ppm
HTP (OEL STEL)	280 mg/m ³
HTP (OEL STEL) [ppm]	50 ppm
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA) [1]	28 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
AGW (OEL TWA) [2]	5 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Chemical category	skin notation, Skin sensitization
Slovenia - Occupational Exposure Limits	
OEL TWA	28 mg/m ³
OEL TWA [ppm]	5 ppm
OEL STEL	112 mg/m ³
OEL STEL [ppm]	20 ppm
Chemical category	Potential for cutaneous absorption
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA) [1]	168 mg/m ³
VLA-ED (OEL TWA) [2]	30 ppm

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d-Limonene (5989-27-5)	
Chemical category	Sensitizer, skin - potential for cutaneous absorption
Norway - Occupational Exposure Limits	
Grenseverdi (OEL TWA) [1]	140 mg/m ³
Grenseverdi (OEL TWA) [2]	25 ppm
Korttidsverdi (OEL STEL)	175 mg/m ³ (value calculated)
Korttidsverdi (OEL STEL) [ppm]	37.5 ppm (value calculated)
Chemical category	Sensitizing substance
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA) [1]	40 mg/m ³
MAK (OEL TWA) [2]	7 ppm
KZGW (OEL STEL)	80 mg/m ³
KZGW (OEL STEL) [ppm]	14 ppm
Chemical category	Sensitizer
Acetic acid (64-19-7)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	25 mg/m ³
IOEL TWA [ppm]	10 ppm
IOEL STEL	50 mg/m ³
IOEL STEL [ppm]	20 ppm
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	25 mg/m ³
MAK (OEL TWA) [ppm]	10 ppm
MAK (OEL STEL)	50 mg/m ³
MAK (OEL STEL) [ppm]	20 ppm
Belgium - Occupational Exposure Limits	
OEL TWA	25 mg/m ³
OEL TWA [ppm]	10 ppm
OEL STEL	38 mg/m ³
OEL STEL [ppm]	15 ppm
Bulgaria - Occupational Exposure Limits	
OEL TWA	25 mg/m ³
OEL TWA [ppm]	10 ppm
OEL STEL	50 mg/m ³
OEL STEL [ppm]	20 ppm
Croatia - Occupational Exposure Limits	
GVI (OEL TWA) [1]	25 mg/m ³
GVI (OEL TWA) [2]	10 ppm
KGVI (OEL STEL)	50 mg/m ³
KGVI (OEL STEL) [ppm]	20 ppm

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Acetic acid (64-19-7)	
Cyprus - Occupational Exposure Limits	
OEL TWA	25 mg/m ³
OEL TWA [ppm]	10 ppm
OEL STEL	50 mg/m ³
OEL STEL [ppm]	20 ppm
Czech Republic - Occupational Exposure Limits	
PEL (OEL TWA)	25 mg/m ³
Denmark - Occupational Exposure Limits	
OEL TWA [1]	25 mg/m ³
OEL TWA [2]	10 ppm
Estonia - Occupational Exposure Limits	
OEL TWA	25 mg/m ³
OEL TWA [ppm]	10 ppm
OEL STEL	25 mg/m ³
OEL STEL [ppm]	10 ppm
Finland - Occupational Exposure Limits	
HTP (OEL TWA) [1]	13 mg/m ³
HTP (OEL TWA) [2]	5 ppm
HTP (OEL STEL)	25 mg/m ³
HTP (OEL STEL) [ppm]	10 ppm
France - Occupational Exposure Limits	
VLE (OEL C/STEL)	25 mg/m ³
VLE (OEL C/STEL) [ppm]	10 ppm
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA) [1]	25 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
AGW (OEL TWA) [2]	10 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Gibraltar - Occupational Exposure Limits	
OEL TWA	25 mg/m ³
OEL TWA [ppm]	10 ppm
OEL STEL	50 mg/m ³
OEL STEL [ppm]	20 ppm
Greece - Occupational Exposure Limits	
OEL TWA	25 mg/m ³
OEL TWA [ppm]	10 ppm
OEL STEL	37 mg/m ³
OEL STEL [ppm]	15 ppm
Hungary - Occupational Exposure Limits	
AK (OEL TWA)	25 mg/m ³

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Acetic acid (64-19-7)	
CK (OEL STEL)	50 mg/m ³
Ireland - Occupational Exposure Limits	
OEL TWA [1]	25 mg/m ³
OEL TWA [2]	10 ppm
OEL STEL	50 mg/m ³
OEL STEL [ppm]	20 ppm
Italy - Occupational Exposure Limits	
OEL TWA	10 mg/m ³
OEL TWA [ppm]	25 ppm
OEL STEL	50 mg/m ³
OEL STEL [ppm]	20 ppm
Latvia - Occupational Exposure Limits	
OEL TWA	25 mg/m ³
OEL TWA [ppm]	10 ppm
Lithuania - Occupational Exposure Limits	
IPRV (OEL TWA)	25 mg/m ³
IPRV (OEL TWA) [ppm]	10 ppm
TPRV (OEL STEL)	50 mg/m ³
TPRV (OEL STEL) [ppm]	20 ppm
Luxembourg - Occupational Exposure Limits	
OEL TWA	25 mg/m ³
OEL TWA [ppm]	10 ppm
OEL STEL	50 mg/m ³
OEL STEL [ppm]	20 ppm
Malta - Occupational Exposure Limits	
OEL TWA	25 mg/m ³
OEL TWA [ppm]	10 ppm
OEL STEL	50 mg/m ³
OEL STEL [ppm]	20 ppm
Netherlands - Occupational Exposure Limits	
MAC-TGG (OEL TWA)	25 mg/m ³
MAC-15 (OEL STEL)	50 mg/m ³
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	25 mg/m ³
NDSCh (OEL STEL)	50 mg/m ³
Portugal - Occupational Exposure Limits	
OEL TWA	25 mg/m ³ (indicative limit value)
OEL TWA [ppm]	10 ppm (indicative limit value)
OEL STEL	50 mg/m ³ (indicative limit value)

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Acetic acid (64-19-7)	
OEL STEL [ppm]	20 ppm (indicative limit value)
Romania - Occupational Exposure Limits	
OEL TWA	25 mg/m ³ (for gaseous or vapor phase chemicals, the limit value is expressed at 20°C and 101.3 kPa)
OEL TWA [ppm]	10 ppm
OEL STEL	50 mg/m ³ (for gaseous or vapor phase chemicals, the limit value is expressed at 20°C and 101.3 kPa)
OEL STEL [ppm]	20 ppm
Slovakia - Occupational Exposure Limits	
NPHV (OEL TWA) [1]	25 mg/m ³
NPHV (OEL TWA) [2]	10 ppm
NPHV (OEL C)	50 mg/m ³
Slovenia - Occupational Exposure Limits	
OEL TWA	25 mg/m ³
OEL TWA [ppm]	10 ppm
OEL STEL	50 mg/m ³
OEL STEL [ppm]	20 ppm
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA) [1]	25 mg/m ³
VLA-ED (OEL TWA) [2]	10 ppm
VLA-EC (OEL STEL)	50 mg/m ³
VLA-EC (OEL STEL) [ppm]	20 ppm
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	13 mg/m ³
NGV (OEL TWA) [ppm]	5 ppm
KTV (OEL STEL)	25 mg/m ³
KTV (OEL STEL) [ppm]	10 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA) [1]	25 mg/m ³
WEL TWA (OEL TWA) [2]	10 ppm
WEL STEL (OEL STEL)	50 mg/m ³
WEL STEL (OEL STEL) [ppm]	20 ppm
Norway - Occupational Exposure Limits	
Grønseverdi (OEL TWA) [1]	25 mg/m ³
Grønseverdi (OEL TWA) [2]	10 ppm
Korttidsverdi (OEL STEL)	50 mg/m ³ (value from the regulation)
Korttidsverdi (OEL STEL) [ppm]	20 ppm (value from the regulation)
Chemical category	Sensitizing substance
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA) [1]	25 mg/m ³

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Acetic acid (64-19-7)	
MAK (OEL TWA) [2]	10 ppm
KZGW (OEL STEL)	50 mg/m ³
KZGW (OEL STEL) [ppm]	20 ppm
Turkey - Occupational Exposure Limits	
OEL TWA	25 mg/m ³
OEL TWA [ppm]	10 ppm
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA [ppm]	10 ppm
ACGIH OEL STEL [ppm]	15 ppm

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Safety glasses

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Protective gloves

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

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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	: > 93 °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	: 0.88
Solubility	: No data available
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

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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
Cinnamic aldehyde (104-55-2)	
LD50 oral rat	2220 mg/kg
LD50 oral	2200 mg/kg body weight
LD50 dermal rabbit	1260 mg/kg
LD50 dermal	1100 mg/kg body weight
Cedarwood oil, Virginia (8000-27-9)	
LD50 oral rat	> 5 g/kg
Clove leaf oil (8000-34-8)	
LD50 oral rat	1370 mg/kg
LD50 oral	2650 mg/kg body weight
LD50 dermal rabbit	1200 mg/kg
LD50 dermal	2500 mg/kg body weight
delta-Damascone (57378-68-4)	
LD50 oral	1400 mg/kg body weight
d-Limonene (5989-27-5)	
LD50 oral rat	4400 mg/kg
LD50 dermal rabbit	> 5 g/kg
Eucalyptus oil (8000-48-4)	
LD50 oral rat	2480 mg/kg
Geraniol (106-24-1)	
LD50 oral rat	3600 mg/kg
LD50 oral	3600 mg/kg body weight
LD50 dermal rabbit	> 5 g/kg
zingiber officinale (ginger) root oil (8007-08-7)	
LD50 oral rat	> 5 g/kg
Hexyl salicylate (6259-76-3)	
LD50 oral rat	> 5 g/kg
LD50 dermal rabbit	> 5000 mg/kg
cis-3-Hexenyl salicylate (65405-77-8)	
LD50 oral rat	5 g/kg
LD50 oral	2500 mg/kg body weight
LD50 dermal rabbit	> 2000 mg/kg
Linalool (78-70-6)	
LD50 oral	2790 mg/kg body weight

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Linalyl acetate (115-95-7)	
LD50 oral rat	14550 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
Sandela (66068-84-6)	
LD50 dermal rat	> 2000 mg/kg
LC50 Inhalation - Rat	> 5.27 mg/l/4h
Acetic acid (64-19-7)	
LD50 oral rat	3310 mg/kg
LD50 oral	3540 mg/kg body weight
LD50 dermal rabbit	1060 mg/kg
LD50 dermal	1100 mg/kg body weight
LC50 Inhalation - Rat	11.4 mg/l/4h
Ylang ylang oil III (8006-81-3)	
LD50 oral rat	> 5 g/kg
Skin corrosion/irritation	: Causes skin irritation.
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
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.
2-Hydroxybenzoic acid, benzyl ester (118-58-1)	
LC50 - Fish [1]	1.03 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static])
d-Limonene (5989-27-5)	
LC50 - Fish [1]	0.619 – 0.796 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
LC50 - Fish [2]	35 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
Geraniol (106-24-1)	
LC50 - Fish [1]	22 mg/l (Exposure time: 96 h - Species: Danio rerio [static])
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])
Acetic acid (64-19-7)	
LC50 - Fish [1]	79 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
LC50 - Fish [2]	75 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 - Crustacea [1]	65 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])

12.2. Persistence and degradability

Cedarwood oil, Texas (68990-83-0)	
Persistence and degradability	Not established.
Eucalyptus oil (8000-48-4)	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

Cinnamic aldehyde (104-55-2)	
Partition coefficient n-octanol/water (Log Pow)	2.22 (at 18 °C)
Cedarwood oil, Texas (68990-83-0)	
Bioaccumulative potential	Not established.
Eucalyptus oil (8000-48-4)	
Bioaccumulative potential	Not established.
Acetic acid (64-19-7)	
Partition coefficient n-octanol/water (Log Pow)	-0.31 (at 20 °C)

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.

SECTION 14: Transport information

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

14.1. UN number

UN-No. (ADR) : UN 3082
UN-No. (IMDG) : UN 3082
UN-No. (IATA) : UN 3082

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UN-No. (ADN) : Not regulated
UN-No. (RID) : Not regulated

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 regulated
Transport document description (ADR) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (d-Limonene), 9, III, (-)
Transport document description (IMDG) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (d-Limonene), 9, III, MARINE POLLUTANT
Transport document description (IATA) : UN 3082 Environmentally hazardous substance, liquid, n.o.s. (d-Limonene), 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

RID

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

14.4. Packing group

Packing group (ADR) : III
Packing group (IMDG) : III
Packing group (IATA) : III
Packing group (ADN) : Not regulated
Packing group (RID) : Not regulated

14.5. Environmental hazards

Dangerous for the environment : Yes

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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) : 5l
Excepted quantities (ADR) : E1
Packing instructions (ADR) : P001, IBC03, LP01, R001
Special packing provisions (ADR) : PP1
Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions (ADR) : T4
Portable tank and bulk container special provisions (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 regulated

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

Not applicable

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SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

EU restriction list (REACH Annex XVII)	
Reference code	Applicable on
3(a)	Acetic acid ; d-Limonene ; Eucalyptus oil
3(b)	Nutmeg CC-16114 ; Acetic acid ; Acetyl diisoamylene ; 2-Hydroxybenzoic acid, benzyl ester ; Cinnamic aldehyde ; beta-Caryophyllene ; Cedarwood oil, Texas ; Cedarwood oil, Virginia ; Clove leaf oil ; delta-Damascone ; d-Limonene ; Eucalyptus oil ; Geraniol ; zingiber officinale (ginger) root oil ; Hexyl salicylate ; Linalool ; Linalyl acetate ; Sandela ; Ylang ylang oil III
3(c)	Nutmeg CC-16114 ; Acetyl diisoamylene ; 2-Hydroxybenzoic acid, benzyl ester ; Cinnamic aldehyde ; beta-Caryophyllene ; Cedarwood oil, Texas ; Cedarwood oil, Virginia ; delta-Damascone ; d-Limonene ; Eucalyptus oil ; zingiber officinale (ginger) root oil ; Hexyl salicylate ; cis-3-Hexenyl salicylate ; Sandela ; Ylang ylang oil III
40.	Acetic acid ; d-Limonene ; Eucalyptus oil

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)
List of sensitizing substances (TRGS 907)	: Contains sensitizing substances according TRGS 907

Netherlands

SZW-lijst van kankerverwekkende stoffen	: Cedarwood oil, Texas ,Cedarwood oil, Virginia,Eucalyptus oil,Ginger oil,cis-3-Hexenyl salicylate,Sandela are listed
SZW-lijst van mutagene stoffen	: Cedarwood oil, Virginia,Eucalyptus oil,Ginger oil,cis-3-Hexenyl salicylate,Sandela 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

Denmark

Classification remarks	: Emergency management guidelines for the storage of flammable liquids must be followed
Danish National Regulations	: Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with the product

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road

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Abbreviations and acronyms	
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
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
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Full text of H- and EUH-phrases	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1

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Full text of H- and EUH-phrases	
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Aquatic Chronic 4	Hazardous to the aquatic environment - Chronic Hazard Category 4
Asp. Tox. 1	Aspiration hazard Category 1
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids Category 3
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
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.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
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.
H413	May cause long lasting harmful effects to aquatic life.

Safety Data Sheet (SDS), EU

The data contained in this Safety Data Sheet is accurate to the best knowledge of French Color & Fragrance Co., applies to the product as supplied by French Color & Fragrance Co. and does not relate to use in combination with any other material or in any process. Data and information is furnished without warranty expressed or implied, nor does French Color & Fragrance Co. assume responsibility for use or reliance upon this data.

This SDS is current to the date listed above. However, the GHS classifications may change due to hazard communication updates by the overseeing governing body. For the most current SDS information please contact SDS@frenchcolor.com