Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 9/12/2022 Revision date: 8/19/2024 Version: 2.0



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

1.1. Product identifier

Product form : Mixture

 Trade name
 : CLEAN CLOVE CC-16415

 UFI
 : 2VAT-K4J5-T002-WGS2

Product code : CC-16415

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, fragrance 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
into @candlegraft do., www.cc

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]

Acute toxicity (oral), Category 4 H302
Serious eye damage/eye irritation, Category 2 H319
Skin sensitisation, Category 1 H317
Aspiration hazard, Category 1 H304
Hazardous to the aquatic environment – Acute Hazard,

Category 1

Hazardous to the aquatic environment – Chronic Hazard, H411

Category 2

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

Adverse physicochemical, human health and environmental effects

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

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2.2. Label elements

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

Hazard pictograms (CLP)







GHS07

GHS08

8 GHS

Signal word (CLP)

: Danger

Contains

 $: benzyl\ benzoate;\ Clean\ Clove\ Leaf\ Oil\ ;\ Cinnamic\ aldehyde;\ COUMARIN;\ Eugenol;\ Linalool;$

beta-Caryophyllene

Hazard statements (CLP)

: H302 - Harmful if swallowed.

H304 - May be fatal if swallowed and enters airways.

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (CLP)

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
 P264 - Wash hands, forearms and face thoroughly after handling.

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

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

P272 - Contaminated work clothing should not be allowed out of the workplace.

P273 - Avoid release to the environment.

P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing

protection.

Extra phrases

: For professional users only.

2.3. Other hazards

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

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are 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	15 – 30	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Clean Clove Leaf Oil	CAS-No.: 8000-34-8 EC-No.: 616-772-2	3.5 – 7	Eye Irrit. 2, H319 Skin Sens. 1, H317 Asp. Tox. 1, H304
Cinnamic aldehyde	CAS-No.: 104-55-2 EC-No.: 203-213-9 REACH-no: 01-2119935242- 45	2.52 – 5.4	Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1A, H317 Aquatic Chronic 3, H412

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1.32 – 3.6 - 1.7 – 3.3 - 0.6 – 2.4	Asp. Tox. 1, H304 Skin Sens. 1B, H317 Aquatic Chronic 2, H411
0.6 – 2.4	Aquatic Chronic 2, H411
-	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Skin Sens. 1B, H317
1.1 – 2.1	Eye Irrit. 2, H319
0.6 – 1.2485	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
0.40024 – 0.80048	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Skin Sens. 1, H317 Aquatic Chronic 2, H411
0.1 – 0.2	Acute Tox. 4 (Oral), H302
0 – 0.0605	Flam. Liq. 3, H226
0 – 0.0605	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
0 – 0.053	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 3, H412
0 – 0.0025	Flam. Liq. 3, H226 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Inhalation:dust,mist), H331 Repr. 2, H361 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
	0.6 - 1.2485 0.6 - 1.2485 0.40024 - 0.80048 0.1 - 0.2 0 - 0.0605 0 - 0.0605 0 - 0.053

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

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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

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

breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water,

followed by warm water rinse. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see Get medical advice/attention. on this label). If skin irritation occurs: Get medical advice/attention. Wash skin with plenty of water. Take off contaminated

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

advice (show the label where possible). Call a physician immediately.

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists. Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

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

vomiting. Call a physician immediately.

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

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

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

Symptoms/effects after eye contact : Eye irritation.
Symptoms/effects after ingestion : Risk of lung oedema.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire fighting water from entering the environment.

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

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

breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel. Avoid contact with skin and eyes.

Avoid breathing dust/fume/gas/mist/vapours/spray.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Equip cleanup crew

with proper protection. For further information refer to section 8: "Exposure

controls/personal protection".

Emergency procedures : Ventilate area.

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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

For containment : Collect spillage.

Methods for cleaning up : Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or

diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

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

6.4. Reference to other sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wash hands and other exposed areas with mild

soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapours/spray.

Hygiene measures : 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 : Keep only in the original container in a cool, well ventilated place away from : Keep away

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

cool.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

Storage temperature : 25 °

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.

Switzerland

Storage class (LK) : LK 6.1 - Toxic materials

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)	140 mg/m³
	25 ppm
HTP (OEL STEL)	280 mg/m³
	50 ppm

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(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)		
Germany - Occupational Exposure Limits (TRGS 9	00)	
AGW (OEL TWA)	28 mg/m³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)	
	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	
	5 ppm	
OEL STEL	112 mg/m³	
	20 ppm	
OEL chemical category	Potential for cutaneous absorption	
Spain - Occupational Exposure Limits		
VLA-ED (OEL TWA)	168 mg/m³	
	30 ppm	
OEL chemical category	Sensitizer, skin - potential for cutaneous absorption	
Norway - Occupational Exposure Limits		
Grenseverdi (OEL TWA)	140 mg/m³	
	25 ppm	
Korttidsverdi (OEL STEL)	175 mg/m³ (value calculated)	
	37.5 ppm (value calculated)	
OEL chemical category	Allergenic substance	
Switzerland - Occupational Exposure Limits		
MAK (OEL TWA)	40 mg/m³	
	7 ppm	
KZGW (OEL STEL)	80 mg/m³	
	14 ppm	
OEL chemical category	Sensitizer	
.betaPinene (127-91-3)		
Belgium - Occupational Exposure Limits		
OEL TWA	20 ppm	
Estonia - Occupational Exposure Limits		
OEL TWA	150 mg/m³ (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect)	
	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)	
	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)	

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.betaPinene (127-91-3)			
Lithuania - Occupational Exposure Limits	Lithuania - Occupational Exposure Limits		
IPRV (OEL TWA)	150 mg/m³		
	25 ppm		
TPRV (OEL STEL)	300 mg/m³		
	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)	113 mg/m³		
	20 ppm		
OEL chemical category	Sensitizer		
Sweden - Occupational Exposure Limits			
NGV (OEL TWA)	150 mg/m³		
	25 ppm		
KGV (OEL STEL)	300 mg/m³		
	50 ppm		
OEL chemical category	Sensitizer		
Norway - Occupational Exposure Limits			
Grenseverdi (OEL TWA)	140 mg/m³		
	25 ppm		
Korttidsverdi (OEL STEL)	175 mg/m³ (value calculated)		
	37.5 ppm (value calculated)		
USA - ACGIH - Occupational Exposure Limits			
ACGIH OEL TWA	20 ppm (Turpentine and selected Monoterpenes)		
ACGIH chemical category	Not Classifiable as a Human Carcinogen, dermal sensitizer		
.alphaPinene (80-56-8)			
Belgium - Occupational Exposure Limits			
OEL TWA	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)		
	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)		
	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		

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TPRV (OEL STEL) 25 ppm TPRV (OEL STEL) 300 mg/m³ 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-E0 (OEL TWA) 113 mg/m³ 20 ppm OEL chemical category Sensitizer Sweden - Occupational Exposure Limits NGV (OEL TWA) 150 mg/m³ 50 ppm OEL chemical category Sensitizer Norway - Occupational Exposure Limits OEL chemical category Norway - Occupational Exposure Limits Grenseverdi (OEL TWA) 140 mg/m³ 25 ppm Korttidsverdi (OEL STEL) 175 mg/m³ (value calculated) 37.5 ppm (value calculated) OEL chemical category Skin notation USA - ACOH+ Occupational Exposure Limits ACGIH OEL TWA 20 ppm (Turpentine and selected Monoterpenes) AGGIH Chemical category Not Classifiable as a Human Carcinogen, dermal sensitizer benzaldehyde (100-52-7) Bulgaria - Occupational Exposure Limits HTP (OEL TWA) 5 mg/m³ HTP (OEL TWA) 5 mg/m³ Ak (OEL TWA) 5 mg/m³ Limits Ak (OEL TWA) 5 mg/m³ Limits Fingling- Occupational Exposure Limits Ak (OEL TWA) 5 mg/m³ Limits Fingling- Occupational Exposure Limits OEL TWA 5 mg/m³ Limits Fingling- Occupational Exposure Limits OEL TWA 5 mg/m³ Limits Fingling- Occupational Exposure Limits Fingling- Occupational Exposur	.alphaPinene (80-56-8)		
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Portugal - Occupational Exposure Limits OEL TWA 20 ppm (Turpentine and selected Monoterpenes) Sensitizer dermal, A4 - Not Classifiable as a Human Carcinogen Spain - Occupational Exposure Limits VLA-ED (OEL TWA) 113 mg/m³ 20 ppm OEL chemical category Sensitizer Sweden - Occupational Exposure Limits NGV (OEL TWA) 150 mg/m³ 50 ppm OEL chemical category Sensitizer KGY (OEL STEL) 300 mg/m³ 50 ppm OEL chemical category Sensitizer Norway - Occupational Exposure Limits Grenseverdi (OEL TWA) 140 mg/m³ 25 ppm Kortidoverdi (OEL STEL) 175 mg/m³ (value calculated) 37.5 ppm (value calculated) OEL chemical category Skin notation USA - A CGIH - Occupational Exposure Limits ACGIH Chemical category Not Classifiable as a Human Carcinogen, dermal sensitizer benzaldehyde (100-52-7) Bulgaria - Occupational Exposure Limits OEL TWA 5 mg/m³ 1 ppm HTP (OEL TWA) 4.4 mg/m³ 1 ppm HTP (OEL C) 17.4 mg/m³ 4 ppm Hungary - Occupational Exposure Limits AK (OEL TWA) 5 mg/m³ CK (OEL STEL) 10 mg/m³ Latvia - Occupational Exposure Limits AK (OEL TWA) 5 mg/m³ 1 ppm Hungary - Occupational Exposure Limits AK (OEL TWA) 5 mg/m³ CK (OEL STEL) 10 mg/m³ Latvia - Occupational Exposure Limits	TPRV (OEL STEL)	300 mg/m³	
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20 ppm	Spain - Occupational Exposure Limits		
OEL chemical category Sensitizer Sweden - Occupational Exposure Limits 150 mg/m³ NGV (OEL TWA) 150 mg/m³ KGV (OEL STEL) 300 mg/m³ OEL chemical category Sensitizer Norway - Occupational Exposure Limits 140 mg/m³ Grenseverdi (OEL TWA) 140 mg/m³ Z5 ppm Korttidsverdi (OEL STEL) More and a category 37.5 ppm (value calculated) OEL chemical category 3kin notation USA - ACGIH - Occupational Exposure Limits ACGIH OEL TWA ACGIH chemical category Not Classifiable as a Human Carcinogen, dermal sensitizer benzaldehyde (100-52-7) Bulgaria - Occupational Exposure Limits OEL TWA 5 mg/m³ Finland - Occupational Exposure Limits 4.4 mg/m³ HTP (OEL TWA) 4.4 mg/m³ HTP (OEL C) 17.4 mg/m³ Hungary - Occupational Exposure Limits AK (OEL TWA) 5 mg/m³ CK (OEL STEL) 10 mg/m³ Latvia - Occupational Exposure Limits	VLA-ED (OEL TWA)	113 mg/m³	
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NGV (OEL TWA) 150 mg/m³ 25 ppm 300 mg/m³ 50 ppm 50 ppm OEL chemical category Sensitizer Norway - Occupational Exposure Limits 140 mg/m³ Korttidsverdi (OEL TWA) 140 mg/m³ Korttidsverdi (OEL STEL) 175 mg/m³ (value calculated) 37.5 ppm (value calculated) 37.5 ppm (value calculated) OEL chemical category Skin notation USA - ACGIH - Occupational Exposure Limits 20 ppm (Turpentine and selected Monoterpenes) ACGIH OEL TWA 20 ppm (Turpentine and selected Monoterpenes) ACGIH chemical category Not Classifiable as a Human Carcinogen, dermal sensitizer benzaldehyde (100-52-7) Bulgaria - Occupational Exposure Limits Finland - Occupational Exposure Limits 5 mg/m³ HTP (OEL TWA) 4.4 mg/m³ 1 ppm 1 ppm HTU (OEL C) 17.4 mg/m³ 4 ppm 4 ppm Hungary - Occupational Exposure Limits 5 mg/m³ K (OEL STEL) 10 mg/m³ Latvia - Occupational Exposure Limits	OEL chemical category	Sensitizer	
KGV (OEL STEL) 25 ppm KGV (OEL STEL) 300 mg/m³ 50 ppm OEL chemical category Sensitizer Norway - Occupational Exposure Limits Grenseverdi (OEL TWA) 140 mg/m³ 25 ppm Korttidsverdi (OEL STEL) 175 mg/m³ (value calculated) 37.5 ppm (value calculated) OEL chemical category Skin notation USA - ACGIH - Occupational Exposure Limits ACGIH OEL TWA 20 ppm (Turpentine and selected Monoterpenes) Not Classifiable as a Human Carcinogen, dermal sensitizer benzaldehyde (100-52-7) Bulgaria - Occupational Exposure Limits OEL TWA 5 mg/m³ Finland - Occupational Exposure Limits HTP (OEL TWA) 4.4 mg/m³ 1 ppm HTP (OEL TWA) 4.4 mg/m³ 4 ppm Hungary - Occupational Exposure Limits AK (OEL TWA) 5 mg/m³ CK (OEL STEL) 10 mg/m³ Latvia - Occupational Exposure Limits	Sweden - Occupational Exposure Limits		
KGV (OEL STEL) 300 mg/m³ 50 ppm OEL chemical category Sensitizer Norway - Occupational Exposure Limits Grenseverdi (OEL TWA) 140 mg/m³ 25 ppm Korttidsverdi (OEL STEL) 175 mg/m³ (value calculated) 37.5 ppm (value calculated) OEL chemical category Skin notation USA - ACGIH - Occupational Exposure Limits ACGIH OEL TWA 20 ppm (Turpentine and selected Monoterpenes) ACGIH chemical category Not Classifiable as a Human Carcinogen, dermal sensitizer benzaldehyde (100-52-7) Bulgaria - Occupational Exposure Limits OEL TWA 5 mg/m³ Finland - Occupational Exposure Limits HTP (OEL TWA) 4.4 mg/m³ 1 ppm HTP (OEL C) 17.4 mg/m³ 4 ppm Hungary - Occupational Exposure Limits AK (OEL TWA) 5 mg/m³ CK (OEL STEL) 10 mg/m³ Latvia - Occupational Exposure Limits	NGV (OEL TWA)	150 mg/m³	
S0 ppm		25 ppm	
DEL chemical category Sensitizer	KGV (OEL STEL)	300 mg/m³	
Norway - Occupational Exposure Limits Grenseverdi (OEL TWA) 140 mg/m³ 25 ppm Korttidsverdi (OEL STEL) 175 mg/m³ (value calculated) 37.5 ppm (value calculated) OEL chemical category USA - ACGIH - Occupational Exposure Limits ACGIH OEL TWA 20 ppm (Turpentine and selected Monoterpenes) ACGIH chemical category Not Classifiable as a Human Carcinogen, dermal sensitizer benzaldehyde (100-52-7) Bulgaria - Occupational Exposure Limits OEL TWA 5 mg/m³ Finland - Occupational Exposure Limits HTP (OEL TWA) 4.4 mg/m³ 1 ppm HTP (OEL C) 17.4 mg/m³ 4 ppm Hungary - Occupational Exposure Limits AK (OEL TWA) 5 mg/m³ CK (CEL STEL) 10 mg/m³ Latvia - Occupational Exposure Limits		50 ppm	
140 mg/m³ 25 ppm 175 mg/m³ (value calculated) 37.5 ppm (Turpentine and selected Monoterpenes) 37.6 ppm (Turpentine and selected Monoterpenes) 38.6 ppm (Turpentine and selected Monoterpenes 38.6 ppm (Turpentine	OEL chemical category	Sensitizer	
25 ppm	Norway - Occupational Exposure Limits		
Korttidsverdi (OEL STEL) 175 mg/m³ (value calculated) 37.5 ppm (value calculated) OEL chemical category USA - ACGIH - Occupational Exposure Limits ACGIH OEL TWA 20 ppm (Turpentine and selected Monoterpenes) ACGIH chemical category Not Classifiable as a Human Carcinogen, dermal sensitizer benzaldehyde (100-52-7) Bulgaria - Occupational Exposure Limits OEL TWA 5 mg/m³ Finland - Occupational Exposure Limits HTP (OEL TWA) 4.4 mg/m³ 1 ppm HTP (OEL C) 17.4 mg/m³ 4 ppm Hungary - Occupational Exposure Limits AK (OEL TWA) 5 mg/m³ CK (OEL STEL) 10 mg/m³ Latvia - Occupational Exposure Limits	Grenseverdi (OEL TWA)	140 mg/m³	
37.5 ppm (value calculated) OEL chemical category Skin notation USA - ACGIH - Occupational Exposure Limits ACGIH OEL TWA 20 ppm (Turpentine and selected Monoterpenes) ACGIH chemical category Not Classifiable as a Human Carcinogen, dermal sensitizer benzaldehyde (100-52-7) Bulgaria - Occupational Exposure Limits OEL TWA 5 mg/m³ Finland - Occupational Exposure Limits HTP (OEL TWA) 4.4 mg/m³ 1 ppm HTP (OEL C) 17.4 mg/m³ 4 ppm Hungary - Occupational Exposure Limits AK (OEL TWA) 5 mg/m³ CK (OEL STEL) 10 mg/m³ Latvia - Occupational Exposure Limits		25 ppm	
DEL chemical category USA - ACGIH - Occupational Exposure Limits ACGIH OEL TWA ACGIH chemical category Not Classifiable as a Human Carcinogen, dermal sensitizer benzaldehyde (100-52-7) Bulgaria - Occupational Exposure Limits OEL TWA 5 mg/m³ Finland - Occupational Exposure Limits HTP (OEL TWA) 4.4 mg/m³ 1 ppm HTP (OEL C) 17.4 mg/m³ 4 ppm Hungary - Occupational Exposure Limits AK (OEL TWA) 5 mg/m³ CK (OEL STEL) 10 mg/m³ Latvia - Occupational Exposure Limits	Korttidsverdi (OEL STEL)	175 mg/m³ (value calculated)	
USA - ACGIH - Occupational Exposure Limits ACGIH OEL TWA 20 ppm (Turpentine and selected Monoterpenes) ACGIH chemical category Not Classifiable as a Human Carcinogen, dermal sensitizer benzaldehyde (100-52-7) Bulgaria - Occupational Exposure Limits OEL TWA 5 mg/m³ Finland - Occupational Exposure Limits HTP (OEL TWA) 4.4 mg/m³ 1 ppm HTP (OEL C) 17.4 mg/m³ 4 ppm Hungary - Occupational Exposure Limits AK (OEL TWA) 5 mg/m³ CK (OEL STEL) 10 mg/m³ Latvia - Occupational Exposure Limits		37.5 ppm (value calculated)	
ACGIH OEL TWA 20 ppm (Turpentine and selected Monoterpenes) ACGIH chemical category Not Classifiable as a Human Carcinogen, dermal sensitizer benzaldehyde (100-52-7) Bulgaria - Occupational Exposure Limits OEL TWA 5 mg/m³ Finland - Occupational Exposure Limits HTP (OEL TWA) 4.4 mg/m³ 1 ppm HTP (OEL C) 17.4 mg/m³ 4 ppm Hungary - Occupational Exposure Limits AK (OEL TWA) 5 mg/m³ CK (OEL STEL) 10 mg/m³ Latvia - Occupational Exposure Limits	OEL chemical category	Skin notation	
ACGIH chemical category benzaldehyde (100-52-7) Bulgaria - Occupational Exposure Limits OEL TWA 5 mg/m³ Finland - Occupational Exposure Limits HTP (OEL TWA) 4.4 mg/m³ 1 ppm HTP (OEL C) 17.4 mg/m³ 4 ppm Hungary - Occupational Exposure Limits AK (OEL TWA) 5 mg/m³ 1 pm 10 mg/m³ Latvia - Occupational Exposure Limits	USA - ACGIH - Occupational Exposure Limits		
benzaldehyde (100-52-7) Bulgaria - Occupational Exposure Limits OEL TWA 5 mg/m³ Finland - Occupational Exposure Limits HTP (OEL TWA) 4.4 mg/m³ 1 ppm HTP (OEL C) 17.4 mg/m³ 4 ppm Hungary - Occupational Exposure Limits AK (OEL TWA) 5 mg/m³ CK (OEL STEL) 10 mg/m³ Latvia - Occupational Exposure Limits	ACGIH OEL TWA	20 ppm (Turpentine and selected Monoterpenes)	
Bulgaria - Occupational Exposure Limits OEL TWA 5 mg/m³ Finland - Occupational Exposure Limits HTP (OEL TWA) 4.4 mg/m³ 1 ppm HTP (OEL C) 17.4 mg/m³ 4 ppm Hungary - Occupational Exposure Limits AK (OEL TWA) 5 mg/m³ CK (OEL STEL) 10 mg/m³ Latvia - Occupational Exposure Limits	ACGIH chemical category	Not Classifiable as a Human Carcinogen, dermal sensitizer	
OEL TWA 5 mg/m³ Finland - Occupational Exposure Limits HTP (OEL TWA) 4.4 mg/m³ 1 ppm HTP (OEL C) 17.4 mg/m³ 4 ppm Hungary - Occupational Exposure Limits AK (OEL TWA) 5 mg/m³ CK (OEL STEL) 10 mg/m³ Latvia - Occupational Exposure Limits	benzaldehyde (100-52-7)		
Finland - Occupational Exposure Limits 4.4 mg/m³ 1 ppm 17.4 mg/m³ 4 ppm 4 ppm 4 ppm 5 mg/m³	Bulgaria - Occupational Exposure Limits		
HTP (OEL TWA)	OEL TWA	5 mg/m³	
1 ppm HTP (OEL C) 17.4 mg/m³ 4 ppm Hungary - Occupational Exposure Limits AK (OEL TWA) 5 mg/m³ CK (OEL STEL) 10 mg/m³ Latvia - Occupational Exposure Limits	Finland - Occupational Exposure Limits		
HTP (OEL C) 17.4 mg/m³ 4 ppm Hungary - Occupational Exposure Limits AK (OEL TWA) 5 mg/m³ CK (OEL STEL) 10 mg/m³ Latvia - Occupational Exposure Limits	HTP (OEL TWA)	4.4 mg/m³	
Hungary - Occupational Exposure Limits AK (OEL TWA) 5 mg/m³ CK (OEL STEL) 10 mg/m³ Latvia - Occupational Exposure Limits		1 ppm	
Hungary - Occupational Exposure Limits AK (OEL TWA) 5 mg/m³ CK (OEL STEL) 10 mg/m³ Latvia - Occupational Exposure Limits	HTP (OEL C)	17.4 mg/m³	
AK (OEL TWA) 5 mg/m³ CK (OEL STEL) 10 mg/m³ Latvia - Occupational Exposure Limits		4 ppm	
CK (OEL STEL) 10 mg/m³ Latvia - Occupational Exposure Limits	Hungary - Occupational Exposure Limits		
Latvia - Occupational Exposure Limits	AK (OEL TWA)	5 mg/m³	
	CK (OEL STEL)	10 mg/m³	
OEL TWA 5 mg/m³	Latvia - Occupational Exposure Limits		
	OEL TWA	5 mg/m³	

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benzaldehyde (100-52-7)		
Lithuania - Occupational Exposure Limits		
IPRV (OEL TWA)	5 mg/m³	
Poland - Occupational Exposure Limits		
NDS (OEL TWA)	10 mg/m³	
NDSCh (OEL STEL)	40 mg/m³	
p-Cymene (99-87-6)		
Denmark - Occupational Exposure Limits		
OEL TWA	135 mg/m³ (Methylisopropylbenzenes)	
	25 ppm (Methylisopropylbenzenes)	
OEL STEL	270 mg/m³ (Methylisopropylbenzenes)	
	50 ppm (Methylisopropylbenzenes)	
Estonia - Occupational Exposure Limits		
OEL TWA	140 mg/m³	
	25 ppm	
OEL STEL	190 mg/m³	
	35 ppm	
Latvia - Occupational Exposure Limits		
OEL TWA	10 mg/m³ (Cymene (2, 3, 4-isomers mixture))	
Lithuania - Occupational Exposure Limits		
IPRV (OEL TWA)	140 mg/m³	
	25 ppm	
TPRV (OEL STEL)	190 mg/m³	
	35 ppm	
Sweden - Occupational Exposure Limits		
NGV (OEL TWA)	140 mg/m³	
	25 ppm	
KGV (OEL STEL)	190 mg/m³	
	35 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.

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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

Colour : Conforms to standard.
Odour : characteristic.

Odour threshold : Not available Melting point : Not applicable Freezing point : Not available **Boiling point** : Not available Flammability : Not applicable Lower explosion limit : Not available : Not available Upper explosion limit Flash point : > 93.3 °C Auto-ignition temperature : Not available : Not available Decomposition temperature рΗ : Not available Viscosity, kinematic : Not available Solubility : Not available

Vapour pressure : 0.000783062 mm Hg (calculated value)

: Not available

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

Partition coefficient n-octanol/water (Log Kow)

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9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

VOC content : 0.63532 % (calculated value)(CARB VOC) (%w/w)

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) : Harmful if swallowed.

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

CLEAN CLOVE CC-16415		
ATE CLP (oral)	1354.133 mg/kg bodyweight	
benzyl benzoate (120-51-4)		
LD50 oral rat	500 mg/kg (Source: NLM_CIP)	
LD50 oral	1160 mg/kg bodyweight	
LD50 dermal rabbit	4000 mg/kg (Source: NLM_CIP)	
Clean Clove Leaf Oil (8000-34-8)		
LD50 oral rat	1370 mg/kg (Source: NZ_CCID)	
LD50 oral	2650 mg/kg bodyweight	
LD50 dermal rabbit	1200 mg/kg (Source: NLM_CIP)	
LD50 dermal	2500 mg/kg bodyweight	
Cinnamic aldehyde (104-55-2)		
LD50 oral rat	2220 mg/kg (Source: NLM_CIP)	
LD50 oral	2220 mg/kg	

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Cinnamic aldehyde (104-55-2)		
LD50 dermal rabbit	1260 mg/kg (Source: EPA_HPV)	
(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)		
LD50 oral rat	4400 mg/kg (Source: CHEMVIEW)	
LD50 dermal rabbit	> 5 g/kg (Source: CHEMVIEW)	
COUMARIN (91-64-5)		
LD50 oral rat	> 5000 mg/kg (Source: JAPAN_GHS)	
LD50 dermal rat	293 mg/kg (Source: ECHA_API)	
Eugenol (97-53-0)		
LD50 oral rat	1930 mg/kg (Source: NZ_CCID)	
LD50 oral	2500 mg/kg bodyweight	
Linalool (78-70-6)		
LD50 oral	2790 mg/kg	
.betaPinene (127-91-3)		
LD50 oral rat	> 5000 mg/kg (Source: EPA_HPV)	
LD50 dermal rabbit	> 5000 mg/kg (Source: CHEMVIEW)	
.alphaPinene (80-56-8)		
LD50 oral rat	3700 mg/kg (Source: NLM_CIP)	
LD50 dermal rat	> 5000 mg/kg (Source: CHEMVIEW)	
Verdox (88-41-5)		
LD50 oral rat	4600 mg/kg (Source: NLM_CIP)	
LD50 oral	4600 mg/kg	
Ethyl vanillin (121-32-4)		
LD50 oral rat	1590 mg/kg (Source: NLM_CIP)	
LD50 oral	3000 mg/kg bodyweight	
LD50 dermal rat	> 2000 mg/kg (Source: ECHA_API)	
benzaldehyde (100-52-7)		
LD50 oral rat	1292 mg/kg (Source: JAPAN_GHS)	
LD50 dermal rabbit	> 1250 mg/kg (Source: JAPAN_GHS)	
p-Cymene (99-87-6)		
LD50 oral rat	4750 mg/kg (Source: NLM_CIP)	
LD50 oral	4750 mg/kg bodyweight	
LD50 dermal rabbit	> 5000 mg/kg (Source: CHEMVIEW)	
LC50 Inhalation - Rat	> 9.7 mg/l (Exposure time: 5 h Source: EU_CLH)	
LC50 Inhalation - Rat (Vapours)	9.7 mg/l/4h	
Serious eye damage/irritation : 0 Respiratory or skin sensitisation : 1 Germ cell mutagenicity :	Not classified Causes serious eye irritation. May cause an allergic skin reaction. Not classified Not classified	

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(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)		
IARC group	3 - Not classifiable	
COUMARIN (91-64-5)		
IARC group	3 - Not classifiable	
Eugenol (97-53-0)		
IARC group	3 - Not classifiable	
Reproductive toxicity :	Not classified	
STOT-single exposure :	Not classified	
STOT-repeated exposure :	Not classified	
Aspiration hazard :	May be fatal if swallowed and enters airways.	
benzyl benzoate (120-51-4)		
Viscosity, kinematic	7.456 mm²/s	
(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)		
Hydrocarbon	Yes	
.betaPinene (127-91-3)		
Hydrocarbon	Yes	
.alphaPinene (80-56-8)		
Hydrocarbon	Yes	
p-Cymene (99-87-6)		
Hydrocarbon	Yes	

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

No additional information available

11.2.2. Other information

Potential adverse human health effects and

symptoms

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

SECTION 12: Ecological information

12.1. Toxicity

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

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

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

(chronic)	
benzyl benzoate (120-51-4)	
LC50 - Fish [1]	2.32 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static] Source: ECHA)
NOEC (chronic)	0.168 mg/l
(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)

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Eugenol (97-53-0)	
LC50 - Fish [1]	13 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static] Source: ECHA)
Linalool (78-70-6)	
EC50 96h - Algae [1]	88.3 mg/l (Species: Desmodesmus subspicatus)
.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)
Ethyl vanillin (121-32-4)	
LC50 - Fish [1]	81.4 – 94.3 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)
benzaldehyde (100-52-7)	
LC50 - Fish [1]	10.6 – 11.8 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through] Source: EPA)
LC50 - Fish [2]	12.69 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static] Source: IUCLID)

12.2. Persistence and degradability

CLEAN CLOVE CC-16415		
Persistence and degradability	Not established.	
benzyl benzoate (120-51-4)		
Persistence and degradability	May cause long-term adverse effects in the environment.	
Clean Clove Leaf Oil (8000-34-8)		
Persistence and degradability	Rapidly degradable	
Cinnamic aldehyde (104-55-2)		
Persistence and degradability	Rapidly degradable	
(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)		
Persistence and degradability	Rapidly degradable	
COUMARIN (91-64-5)		
Persistence and degradability	Rapidly degradable	
Eugenol (97-53-0)		
Persistence and degradability	Rapidly degradable	
Linalool (78-70-6)		
Persistence and degradability	Rapidly degradable	
.betaPinene (127-91-3)		
Persistence and degradability	Rapidly degradable	
.alphaPinene (80-56-8)		
Persistence and degradability	Rapidly degradable	
beta-Caryophyllene (87-44-5)		
Persistence and degradability	Rapidly degradable	

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Verdox (88-41-5)	
Persistence and degradability	Rapidly degradable
Ethyl vanillin (121-32-4)	
Persistence and degradability	Rapidly degradable
benzaldehyde (100-52-7)	
Persistence and degradability	Rapidly degradable
p-Cymene (99-87-6)	
Persistence and degradability	Rapidly degradable

12.3. Bioaccumulative potential

CLEAN CLOVE CC-16415		
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.	
Cinnamic aldehyde (104-55-2)		
Partition coefficient n-octanol/water (Log Pow)	2.1065 (at 25 °C)	
(R)-p-mentha-1,8-diene; d-limonene (5989-27-5	5)	
Partition coefficient n-octanol/water (Log Pow)	4.38 (at 37 °C (at pH 7.2)	
Eugenol (97-53-0)		
Partition coefficient n-octanol/water (Log Pow)	1.83 (at 30 °C (at pH 5.5)	
.alphaPinene (80-56-8)		
Partition coefficient n-octanol/water (Log Pow)	4.1	
beta-Caryophyllene (87-44-5)		
Partition coefficient n-octanol/water (Log Pow)	6.23 (at 25 °C (at pH 7)	
Ethyl vanillin (121-32-4)		
Partition coefficient n-octanol/water (Log Pow)	1.61 (at 25 °C)	
benzaldehyde (100-52-7)		
BCF - Fish [1]	(no significant bioaccumulation)	
Partition coefficient n-octanol/water (Log Pow)	1.4 (at 25 °C)	
p-Cymene (99-87-6)		
Partition coefficient n-octanol/water (Log Pow)	4.8 (at 20 °C (at pH 7)	
Partition coefficient n-octanol/water (Log Kow)	0	

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

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12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

Additional information

: Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods Product/Packaging disposal recommendations Ecological information 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.
- : HP6 "Acute Toxicity:" waste which can cause acute toxic effects following oral or dermal administration, or inhalation exposure.

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

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 number				
UN 3082	UN 3082	UN 3082	UN 3082	UN 3082
14.2. UN proper shippin	g name			
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzyl benzoate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzyl benzoate)	Environmentally hazardous substance, liquid, n.o.s. (Benzyl benzoate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzyl benzoate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzyl benzoate)
Transport document descr	ription			
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzyl benzoate), 9, III, (-)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzyl benzoate), 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Benzyl benzoate), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzyl benzoate), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzyl benzoate), 9, III
14.3. Transport hazard o	class(es)			
9	9	9	9	9
**************************************			**************************************	
14.4. Packing group				
III	III	III	III	III
14.5. Environmental haz	zards			
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes

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ADR	IMDG	IATA	ADN	RID
No supplementary information available				

14.6. Special precautions for user

Overland transport

Classification code (ADR) : M6

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

Limited quantities (ADR) : 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 : TP1, TP29

(ADR)

Tank code (ADR) : LGBV
Vehicle for tank carriage : AT
Transport category (ADR) : 3
Special provisions for carriage - Packages (ADR) : V12
Special provisions for carriage - Loading, unloading : CV13

and handling (ADR)

Hazard identification number (Kemler No.) : 90

Orange plates :

90 3082

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

Transport by sea

Special provisions (IMDG) : 274, 335, 969

Limited quantities (IMDG) : 5 L Excepted quantities (IMDG) : E1 : LP01, P001 Packing instructions (IMDG) Special 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. (Fire) : F-A
EmS-No. (Spillage) : S-F
Stowage category (IMDG) : A

Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y964
PCA limited quantity max net quantity (IATA) : 30kgG
PCA packing instructions (IATA) : 964
PCA max net quantity (IATA) : 450L
CAO packing instructions (IATA) : 964
CAO max net quantity (IATA) : 450L

Special provisions (IATA) : A97, A158, A197, A215

ERG code (IATA) : 9L

Inland waterway transport

Classification code (ADN) : M6

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

Limited quantities (ADN) : 5 L

Excepted quantities (ADN) : E1

Carriage permitted (ADN) : T

Equipment required (ADN) : PP

Number of blue cones/lights (ADN) : 0

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Rail transport

Classification code (RID) : M6

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

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

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

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

(RID)

Tank codes for RID tanks (RID) : LGBV
Transport category (RID) : 3
Special provisions for carriage – Packages (RID) : W12

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

and handling (RID)

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

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
3(a)	(R)-p-mentha-1,8-diene; d-limonene; .beta Pinene; .alphaPinene; p-Cymene	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)	CLEAN CLOVE CC-16415; benzyl benzoate; Clean Clove Leaf Oil; Cinnamic aldehyde; (R)- p-mentha-1,8-diene; d- limonene; Eugenol; Linalool; .alphaPinene; beta- Caryophyllene; benzaldehyde; p-Cymene	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10
3(c)	CLEAN CLOVE CC-16415; benzyl benzoate; Cinnamic aldehyde; (R)- p-mentha-1,8-diene; d- limonene; .alphaPinene; Verdox; p-Cymene	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; .beta Pinene; .alphaPinene; p-Cymene	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.

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REACH Annex XIV (Authorisation List)

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

REACH Candidate List (SVHC)

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

PIC Regulation (Prior Informed Consent)

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

POP Regulation (Persistent Organic Pollutants)

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

Ozone Regulation (1005/2009)

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

Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

VOC Directive (2004/42)

VOC content : 0.63532 % (calculated value)(CARB VOC) (%w/w)

Explosives Precursors Regulation (2019/1148)

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

Drug Precursors Regulation (273/2004)

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

15.1.2. National regulations

France

Occupational diseases	
Code	Description
RG 84	Conditions caused by liquid organic solvents for professional use: saturated or unsaturated aliphatic or cyclic liquid hydrocarbons and mixtures thereof; liquid halogenated hydrocarbons; nitrated derivatives of aliphatic hydrocarbons; alcohols; glycols, glycol ethers; ketones; aldehydes; aliphatic and cyclic ethers, including tetrahydrofuran; esters; dimethylformamide and dimethylacetamine; acetonitrile and propionitrile; pyridine; dimethylsulfone and dimethylsulfoxide

corve restrictions assording Act on the Protection of Working Methors (MuSchG)

Germany

Employment restrictions

Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).
: WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1).
: Contains sensitizing substances according TRGS 907.
: Is not subject to the Hazardous Incident Ordinance (12. BImSchV)
: A(1) - highly toxic for aquatic organisms, may have longterm hazardous effects in aquatic environment
: None of the components are listed
: None of the components are listed
None of the components are listed
: None of the components are listed
: 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

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15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Other information : None.

Full text of H- and EUH-statements:		
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3	
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3	
Acute Tox. 3 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 3	
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3	
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	
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2	
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3	
Asp. Tox. 1	Aspiration hazard, Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Flam. Liq. 3	Flammable liquids, Category 3	
H226	Flammable liquid and vapour.	
H301	Toxic if swallowed.	
H302	Harmful if swallowed.	
H304	May be fatal if swallowed and enters airways.	
H311	Toxic in contact with skin.	
H312	Harmful in contact with skin.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H319	Causes serious eye irritation.	
H331	Toxic if inhaled.	
H361	Suspected of damaging fertility or the unborn child.	
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.	
Repr. 2	Reproductive toxicity, Category 2	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
Skin Sens. 1	Skin sensitisation, Category 1	
Skin Sens. 1A	Skin sensitisation, category 1A	
Skin Sens. 1B	Skin sensitisation, category 1B	

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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.