Safety Data Sheet

According to Annex II to REACH - Regulation (EU) 2020/878 and to Annex II to UK REACH

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

1.1. Product identifier

Product name **CANDELA - TESSUTO**

UFI : **7W70-H0JD-400K-HVGY**

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

Identified Uses	Industrial	Professional	Consumer
Perfumed candle for environments.	-	-	✓

Uses Advised Against

Do not use as a perfume per person.

1.3. Details of the supplier of the safety data sheet

Name **CULTI MILANO S.p.A.**
Full address **Via dell'Aprica, 12**
District and Country **20158 Milano (MI)**
Italia
Tel. +39 02/49784974
Fax +39 02/49789135

e-mail address of the competent person responsible for the Safety Data Sheet **culti@culti.com**

1.4. Emergency telephone number

For urgent inquiries refer to **(AT): +43 14064343 - (BE): +32 070245245 - (BG): +359 29154233 - (CY): 1401**
(DK): +45 82121212 - (ES): +34 915620420 - (HR): +385 12348342
(EE): +372 7943794, 16662 - (FI): +358 800 147111 - (FR): +33 (0) 145425959
(DE): 112 - (EL): +30 2107793777 - (IE): +353 (01) 8092166 - (IS): +354 5432222, 112
(LV): +371 67042473, 112 - (LT): +370 (85) 2362052 - (LU): +352 80025500
(MT): 2545 0000 - (NO): +47 22591300 - (NL): +31 (0) 887558000 - (PL): 112
(PT): +351 800250250 - (CZ): +420 224919293 - (RO): +40 212308000
(SK): +421 254774166 - (SI): 112 - (SE): 112 - (HU):+36 80201199
(GB): 111

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878.
Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Skin sensitization, category 1A	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, chronic toxicity, category 2	H411	Toxic to aquatic life with long lasting effects.

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:

SECTION 2. Hazards identification ... / >>

Signal words: Warning

Hazard statements:

H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

P280 Wear protective gloves.
P273 Avoid release to the environment.
P391 Collect spillage.
P102 Keep out of reach of children.
P101 If medical advice is needed, have product container or label at hand.
P261 Avoid breathing dust / fume / gas / mist / vapours / spray.

Contains:
(E)-2-METHOXY-4-(PROP-1- ENYL)PHENOL
LINALOOL
DAMASCENONE
CINNAMALDEHYDE
CITRONELLOL
GERANIOL
COUMARIN
(E)-3-METHYL-5-CYCLOPENTADECEN1-ONE
(1'R,2R)-2-METHYL-4-(2',2',3'-TRI-NAL AND METHYLCYCLOPENT-3'-EN-1'-YL)-4-PENTENAL
LINALYL ACETATE
3,7-DIMETHYLNONA-1,6-DIEN-3-OL
d-LIMONENE

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration ≥ 0.1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification		x = Conc. %	Classification (EC) 1272/2008 (CLP)
LINALOOL			
INDEX	*603-235-00-2*	1 ≤ x < 2	**Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1B H317**
EC	*201-134-4*		
CAS	*78-70-6*		
REACH Reg.	*01-2119474016-42*		
TETRAHYDRO-2-ISOBUTYL-4-METHYLPYRAN-4-OL, MIXED ISOMERS (CIS AND TRANS)			
INDEX	*603-101-00-3*	1 ≤ x < 1,5	**Eye Irrit. 2 H319**
EC	*405-040-6*		
CAS	*63500-71-0*		
REACH Reg.	*01-0000015458-64*		
d-LIMONENE			
INDEX	*601-096-00-2*	0,5 ≤ x < 1	**Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Skin Sens. 1B H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 3 H412**
EC	*227-813-5*		
CAS	*5989-27-5*		
REACH Reg.	*01-2119529223-47*		
3,7-DIMETHYLNONA-1,6-DIEN-3-OL			
INDEX		0,5 ≤ x < 1	**Eye Irrit. 2 H319, Skin Sens. 1B H317**
EC	*233-732-6*		
CAS	*10339-55-6*		

SECTION 3. Composition/information on ingredients ... / >>

LINALYL ACETATE
INDEX 0,5 ≤ x < 1 **Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1B H317**
EC *204-116-4*
CAS *115-95-7*
REACH Reg. *01-2119454789-19*

(1'R,2R)-2-METHYL-4-(2',2',3'-TRI-NAL AND METHYLCYCLOPENT-3'-EN-1'-YL)-4-PENTENAL
INDEX 0,25 ≤ x < 0,5 **Skin Sens. 1B H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=10**
EC *422-120-6*
CAS *166432-53-7*
REACH Reg. *01-0000016863-64*

1,3,4,6,7,8-HEXAHYDRO-4,6,6,7,8,8-HEXAMETHYLINDENO[5,6-c]PYRAN
INDEX *603-212-00-7* 0,25 ≤ x < 0,3 **Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1**
EC *214-946-9*
CAS *1222-05-5*
REACH Reg. *01-2119488227-29*

(E)-3-METHYL-5-CYCLOPENTADECEN1-ONE
INDEX *606-119-00-X* 0,1 ≤ x < 0,25 **Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1**
EC *429-900-5*
CAS *82356-51-2*
REACH Reg. *01-0000017618-62*

COUMARIN
INDEX 0,1 ≤ x < 0,15 **Acute Tox. 4 H302, Skin Sens. 1B H317**
EC *202-086-7* **LD50 Oral: 520 mg/kg**
CAS *91-64-5*

GERANIOL
INDEX *603-241-00-5* 0,1 ≤ x < 0,15 **Eye Dam. 1 H318, Skin Irrit. 2 H315, Skin Sens. 1 H317**
EC *203-377-1*
CAS *106-24-1*
REACH Reg. *01-2119552430-49*

CITRONELLOL
INDEX 0,1 ≤ x < 0,15 **Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1B H317**
EC *203-375-0*
CAS *106-22-9*
REACH Reg. *01-2119453995-23*

(E)-2-METHOXY-4-(PROP-1- ENYL)PHENOL
INDEX *604-094-00-X* 0,01 ≤ x < 0,05 **Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Skin Sens. 1A H317**
EC *227-678-2* **Skin Sens. 1A H317: ≥ 0,01%**
CAS *5932-68-3* **LD50 Oral: 541,5 mg/kg, LD50 Dermal: 1911,6 mg/kg, STA Inhalation mists/powders: 1,5 mg/l**
REACH Reg. *01-2120223682-61*

CINNAMALDEHYDE
INDEX 0 ≤ x < 0,05 **Acute Tox. 4 H312, Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1A H317, Aquatic Chronic 3 H412**
EC *203-213-9* **LD50 Dermal: 1260 mg/kg**
CAS *104-55-2*

DAMASCENONE
INDEX 0 ≤ x < 0,05 **Skin Irrit. 2 H315, Skin Sens. 1A H317, Aquatic Chronic 2 H411**
EC *245-844-2*
CAS *23726-93-4*
REACH Reg. *01-2120105798-49*

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove any contact lenses. Wash immediately and abundantly with water for at least 15 minutes, opening the eyelids wide. Consult a doctor if the problem persists.
SKIN: Take off contaminated clothing. Shower immediately. Call a doctor immediately. Wash the contaminated garments before reusing them.
INHALATION: Move the subject to fresh air. If breathing stops, give artificial respiration. Call a doctor immediately.
INGESTION: Call a doctor immediately. Do not induce vomiting. Do not administer anything that is not expressly authorized by your doctor.

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

SKIN: May cause an allergic reaction.

SECTION 4. First aid measures ... / >>

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

Useful urgent medical intervention.

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT
The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.
UNSUITABLE EXTINGUISHING EQUIPMENT
None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE
Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION
Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS
Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

If there are no contraindications, spray powder with water to prevent the formation of dust.
Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product and place it in containers for recovery or disposal. If there are no contraindications, use jets of water to eliminate product residues.
Make sure the leakage site is well aired. Evaluate the compatibility of the container to be used, by checking section 10. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Refer to the uses identified in section 1.2. For applications other than those described, contact the supplier.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory references:

DEU	Deutschland	Forschungsgemeinschaft MAK- und BAT-Werte-Liste 2022 Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe Mitteilung 58
ESP	España	Límites de exposición profesional para agentes químicos en España 2023
FIN	Suomi	HTP-VÄRDEN 2020. Koncentrationer som befunnits skadliga. SOCIAL - OCH HÄLSOVÅRDSMINISTERIETS PUBLIKATIONER 2020:25
NOR	Norge	Forskrift om endring i forskrift om tiltaksverdier og grenseverdier for fysiske og kjemiske faktorer i arbeidsmiljøet samt smitterisikogrupper for biologiske faktorer (forskrift om tiltaks- og grenseverdier), 21. august 2018 nr. 1255
SVN	Slovenija	Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu (Uradni list RS, št. 100/01, 39/05, 53/07, 102/10, 43/11 – ZVZD-1, 38/15, 78/18 in 78/19)

CITRONELLOL

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,002	mg/l
Normal value for fresh water sediment	0,026	mg/kg/d
Normal value for marine water sediment	0,003	mg/kg/d
Normal value for marine water, intermittent release	0,024	mg/l
Normal value of STP microorganisms	580	mg/l
Normal value for the terrestrial compartment	0,004	mg/kg/d

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				13,8 mg/kg bw/d				
Inhalation	10 mg/m3		10 mg/m3	47,8 mg/m3	10 mg/m3		10 mg/m3	161,6 mg/m3
Skin	2,95 mg/cm2			196,4 mg/kg bw/d	2,95 mg/cm2			327,4 mg/kg bw/d

GERANIOL

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,011	mg/l
Normal value in marine water	0,001	mg/l
Normal value for fresh water sediment	0,115	mg/kg/d
Normal value for marine water sediment	0,011	mg/kg/d
Normal value for marine water, intermittent release	0,108	mg/l
Normal value of STP microorganisms	0,7	mg/l
Normal value for the terrestrial compartment	0,017	mg/kg/d

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				2 mg/kg bw/d				
Inhalation				3,5 mg/m3				11,8 mg/m3
Skin			1180 µg/cm2	2,5 mg/kg bw/d			1180 µg/cm2	4,2 mg/kg bw/d

SECTION 8. Exposure controls/personal protection ... / >>

LINALYL ACETATE

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,011	mg/l
Normal value in marine water	0,001	mg/l
Normal value for fresh water sediment	0,609	mg/kg/d
Normal value for marine water sediment	0,061	mg/kg/d
Normal value for marine water, intermittent release	0,11	mg/l
Normal value of STP microorganisms	1	mg/l
Normal value for the terrestrial compartment	0,115	mg/kg/d

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				0,2 mg/kg bw/d				
Inhalation				0,68 mg/m3			236,2	2,75 mg/m3
Skin	0,236 mg/cm2		0,236 mg/cm2	1,25 mg/kg bw/d	0,236 mg/cm2		0,236 mg/cm2	2,5 mg/kg bw/d

1,3,4,6,7,8-HEXAHYDRO-4,6,6,7,8,8-HEXAMETHYLINDENO[5,6-c]PYRAN

Predicted no-effect concentration - PNEC

Normal value in fresh water	6,8	µg/l
Normal value in marine water	0,44	µg/l
Normal value for fresh water sediment	2	mg/kg/d
Normal value for marine water sediment	394	mg/kg/d
Normal value of STP microorganisms	1	mg/l
Normal value for the food chain (secondary poisoning)	20,4	mg/kg
Normal value for the terrestrial compartment	1,5	mg/kg/d

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				2,3 mg/kg bw/d				
Inhalation				4 mg/m3				13,5 mg/m3
Skin				22 mg/kg bw/d				36,7 mg/kg bw/d

DAMASCENONE

Predicted no-effect concentration - PNEC

Normal value in fresh water	1,09	µg/l
Normal value in marine water	0,11	µg/l
Normal value for fresh water sediment	0,087	mg/kg/d
Normal value for marine water sediment	8,67	µg/kg/d
Normal value for marine water, intermittent release	10,9	µg/l
Normal value of STP microorganisms	3,2	mg/l
Normal value for the food chain (secondary poisoning)	6,67	mg/kg
Normal value for the terrestrial compartment	0,017	mg/kg/d

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				0,38 mg/kg bw/d				
Inhalation				0,67 mg/m3				2,71 mg/m3
Skin				0,38 mg/kg bw/d				0,77 mg/kg bw/d

SECTION 8. Exposure controls/personal protection ... / >>

(E)-2-METHOXY-4-(PROP-1- ENYL)PHENOL

Predicted no-effect concentration - PNEC

Normal value in fresh water	4,7	µg/l
Normal value in marine water	0,47	µg/l
Normal value for fresh water sediment	0,047	mg/kg/d
Normal value for marine water sediment	0,005	mg/kg/d
Normal value for marine water, intermittent release	0,047	mg/l
Normal value for fresh water, intermittent release	4,7	µg/l
Normal value of STP microorganisms	10	mg/l
Normal value for the food chain (secondary poisoning)	41,5	mg/kg
Normal value for the terrestrial compartment	0,007	mg/kg/d

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				0,85 mg/kg bw/d				
Inhalation				1,5 mg/m3				6 mg/m3
Skin				0,85 mg/kg bw/d				1,71 mg/kg bw/d

d-LIMONENE

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	28	5	112	20	SKIN
MAK	DEU	28	5	112	20	SKIN
VLA	ESP	168	30			SKIN
HTP	FIN	140	25	280	50	
TLV	NOR	140	25			
MV	SVN	28	5	112	20	SKIN

Predicted no-effect concentration - PNEC

Normal value in fresh water	14	µg/l
Normal value in marine water	1,4	µg/l
Normal value for fresh water sediment	3,85	mg/kg/d
Normal value for marine water sediment	0,385	mg/kg/d
Normal value of STP microorganisms	1,8	mg/l
Normal value for the food chain (secondary poisoning)	133	mg/kg
Normal value for the terrestrial compartment	0,763	mg/kg/d

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			4,8	4,8 mg/kg bw/d				
Inhalation			16,6	16,6 mg/m3			66,7	66,7 mg/m3
Skin			4,8	4,8 mg/kg bw/d			9,5	9,5 mg/kg bw/d

SECTION 8. Exposure controls/personal protection ... / >>

TETRAHYDRO-2-ISOBUTYL-4-METHYLPYRAN-4-OL, MIXED ISOMERS (CIS AND TRANS)

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,094	mg/l
Normal value in marine water	0,009	mg/l
Normal value for fresh water sediment	0,412	mg/kg/d
Normal value for marine water sediment	0,041	mg/kg/d
Normal value for marine water, intermittent release	0,94	mg/l
Normal value of STP microorganisms	10	mg/l
Normal value for the terrestrial compartment	0,09	mg/kg/d

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				7,5 mg/kg bw/d				
Inhalation				13 mg/m3				44,1 mg/m3
Skin				25 mg/kg bw/d				41,7 mg/kg bw/d

LINALOOL

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,2	mg/l
Normal value in marine water	0,02	mg/l
Normal value for fresh water sediment	2,22	mg/kg/d
Normal value for marine water sediment	0,222	mg/kg/d
Normal value for marine water, intermittent release	2	mg/l
Normal value of STP microorganisms	10	mg/l
Normal value for the food chain (secondary poisoning)	7,8	mg/kg
Normal value for the terrestrial compartment	0,327	mg/kg/d

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				2,49 mg/kg bw/d				
Inhalation				4,33 mg/m3				24,58 mg/m3
Skin	1,5 mg/cm2		1,5 mg/cm2	1,25 mg/kg bw/d	3 mg/cm2		3 mg/cm2	3,5 mg/kg bw/d

(E)-3-METHYL-5-CYCLOPENTADECEN1-ONE

Predicted no-effect concentration - PNEC

Normal value in fresh water	2,42	µg/l
Normal value in marine water	0,242	µg/l
Normal value for fresh water sediment	3,66	mg/kg/d
Normal value for marine water sediment	0,37	mg/kg/d
Normal value for marine water, intermittent release	2,2	µg/l
Normal value of STP microorganisms	10	mg/l
Normal value for the food chain (secondary poisoning)	111,1	mg/kg
Normal value for the terrestrial compartment	2,34	mg/kg/d

SECTION 8. Exposure controls/personal protection ... / >>

COUMARIN		
Predicted no-effect concentration - PNEC		
Normal value in fresh water	19	µg/l
Normal value in marine water	1,9	µg/l
Normal value for fresh water sediment	0,15	mg/kg/d
Normal value for marine water sediment	0,015	mg/kg/d
Normal value for marine water, intermittent release	14,2	µg/l
Normal value of STP microorganisms	6,4	mg/l
Normal value for the food chain (secondary poisoning)	30,7	mg/kg
Normal value for the terrestrial compartment	0,018	mg/kg/d

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				0,39 mg/kg bw/d				
Inhalation				1,69 mg/m3				6,78 mg/m3
Skin				0,39 mg/kg bw/d				0,79 mg/kg bw/d

Legend:
(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.
VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.
When choosing personal protective equipment, ask your chemical substance supplier for advice.
Personal protective equipment must be CE marked, showing that it complies with applicable standards.
Provide an emergency shower with face and eye wash station.
HAND PROTECTION
In the case of prolonged contact with the product, protect the hands with penetration-resistant work gloves (see standard EN 374).
Work glove material must be chosen according to the use process and the products that may form. Latex gloves may cause sensitivity reactions.
SKIN PROTECTION
Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.
EYE PROTECTION
Wear airtight protective goggles (see standard EN ISO 16321).
RESPIRATORY PROTECTION
None required, unless indicated otherwise in the chemical risk assessment.
ENVIRONMENTAL EXPOSURE CONTROLS
The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.
Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Information
Appearance	wax	
Colour	white	
Odour	characteristic	
Melting point / freezing point	not available	Reason for missing data:not relevant for the characterization of the product
Initial boiling point	not available	Reason for missing data:not relevant for the characterization of the product
Flammability	not flammable	
Lower explosive limit	not applicable	Reason for missing data:the substance/mixture is a solid
Upper explosive limit	not applicable	Reason for missing data:the substance/mixture is a solid
Flash point	not applicable	Reason for missing data:the substance/mixture

SECTION 9. Physical and chemical properties ... / >>

		is a solid
Auto-ignition temperature	not applicable	Reason for missing data:the substance/mixture is a solid
Decomposition temperature	not available	Reason for missing data:not relevant for the characterization of the product
pH	not available	Reason for missing data:substance/mixture is non-soluble (in water)
Kinematic viscosity	not applicable	Reason for missing data:the substance/mixture is a solid
Solubility	insoluble in water	
Partition coefficient: n-octanol/water	not applicable	Reason for missing data:substance/mixture is non-soluble (in water)
Vapour pressure	not available	Reason for missing data:not relevant for the characterization of the product
Density and/or relative density	not available	Reason for missing data:not relevant for the characterization of the product
Relative vapour density	not applicable	Reason for missing data:the substance/mixture is a solid
Particle characteristics	not available	

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

Information not available

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

10.5. Incompatible materials

Information not available

10.6. Hazardous decomposition products

Information not available

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.
It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

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

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

SECTION 11. Toxicological information ... / >>

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation) of the mixture:	Not classified (no significant component)
ATE (Oral) of the mixture:	Not classified (no significant component)
ATE (Dermal) of the mixture:	Not classified (no significant component)

CINNAMALDEHYDE

LD50 (Dermal):	1260 mg/kg
LD50 (Oral):	2220 mg/kg

GERANIOL

LD50 (Dermal):	> 5000 mg/kg
LD50 (Oral):	3600 mg/kg

LINALYL ACETATE

LD50 (Dermal):	> 5000 mg/kg
LD50 (Oral):	> 9000 mg/kg

1,3,4,6,7,8-HEXAHYDRO-4,6,6,7,8,8-HEXAMETHYLINDENO[5,6-c]PYRAN

LD50 (Dermal):	> 2000 mg/kg OECD 402
LD50 (Oral):	> 2000 mg/kg OECD 423
LC50 (Inhalation mists/powders):	> 5,04 mg/l/1h OECD 403

(1'R,2R)-2-METHYL-4-(2',2',3'-TRI-NAL AND METHYLCYCLOPENT-3'-EN-1'-YL)-4-PENTENAL

LD50 (Dermal):	> 2000 mg/kg OECD 402
LD50 (Oral):	> 2000 mg/kg OECD 420

DAMASCENONE

LD50 (Dermal):	2900 mg/kg OECD 402
LD50 (Oral):	> 2000 mg/kg EU METHOD B.1

(E)-2-METHOXY-4-(PROP-1- ENYL)PHENOL

LD50 (Dermal):	1911,6 mg/kg OECD 402
LD50 (Oral):	541,5 mg/kg

d-LIMONENE

LD50 (Dermal):	> 5000 mg/kg
LD50 (Oral):	> 2000 mg/kg OECD 423

TETRAHYDRO-2-ISOBUTYL-4-METHYLPYRAN-4-OL, MIXED ISOMERS (CIS AND TRANS)

LD50 (Dermal):	> 2000 mg/kg OECD 402
LD50 (Oral):	> 2000 mg/kg OECD 401

LINALOOL

LD50 (Dermal):	5610 mg/kg OECD 402
LD50 (Oral):	2790 mg/kg OECD 401

(E)-3-METHYL-5-CYCLOPENTADECEN1-ONE

LD50 (Dermal):	> 2000 mg/kg OECD 401
LD50 (Oral):	> 2000 mg/kg OECD 401

COUMARIN

LD50 (Oral):	520 mg/kg OECD 401

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SECTION 11. Toxicological information ... / >>

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

SECTION 12. Ecological information

This product is dangerous for the environment and is toxic for aquatic organisms. In the long term, it have negative effects on acquatic environment.

12.1. Toxicity

CINNAMALDEHYDE

LC50 - for Fish	2,35 mg/l/96h
EC50 - for Crustacea	119,6 mg/l/48h

CITRONELLOL

LC50 - for Fish	14,66 mg/l/96h DIN 38412
EC50 - for Crustacea	17,48 mg/l/48h
EC50 - for Algae / Aquatic Plants	2,4 mg/l/72h

GERANIOL

LC50 - for Fish	22 mg/l/96h OECD 203
EC50 - for Crustacea	10,8 mg/l/48h OECD 202
EC50 - for Algae / Aquatic Plants	13,9 mg/l/72h OECD 201
EC10 for Algae / Aquatic Plants	3,77 mg/l/72h OECD 201

LINALYL ACETATE

LC50 - for Fish	11 mg/l/96h OECD 203
EC50 - for Crustacea	59 mg/l/48h OECD 202
EC50 - for Algae / Aquatic Plants	68 mg/l/72h OECD 201
EC10 for Algae / Aquatic Plants	3,9 mg/l/72h OECD 201

1,3,4,6,7,8-HEXAHYDRO-4,6,6,7,8,8-HEXAMETHYLINDENO[5,6-c]PYRAN

LC50 - for Fish	0,95 mg/l/96h OECD 203
EC50 - for Crustacea	0,194 mg/l/48h OECD 202
EC10 for Crustacea	0,044 mg/l/6d
EC10 for Algae / Aquatic Plants	0,201 mg/l/72h OECD 201

SECTION 12. Ecological information ... / >>

Chronic NOEC for Fish	0,068 mg/l OECD 210
Chronic NOEC for Crustacea	0,111 mg/l OECD 202

(1'R,2R)-2-METHYL-4-(2',2',3'-TRI-NAL AND METHYLCYCLOPENT-3'-EN-1'-YL)-4-PENTENAL

LC50 - for Fish	1,6 mg/l/96h OECD 203
EC50 - for Crustacea	0,4 mg/l/48h OECD 202
EC50 - for Algae / Aquatic Plants	> 2,4 mg/l/72h OECD 201
EC10 for Algae / Aquatic Plants	1,34 mg/l/72h OECD 201
Chronic NOEC for Crustacea	0,0039 mg/l/21d OECD 211

DAMASCENONE

LC50 - for Fish	1,09 mg/l/96h OECD 203
EC50 - for Crustacea	9 mg/l/48h QSAR
EC50 - for Algae / Aquatic Plants	8,3 mg/l/72h QSAR

(E)-2-METHOXY-4-(PROP-1- ENYL)PHENOL

LC50 - for Fish	9,3 mg/l/96h
EC50 - for Crustacea	4,7 mg/l/48h
EC50 - for Algae / Aquatic Plants	13,9 mg/l/72h

d-LIMONENE

LC50 - for Fish	0,72 mg/l/96h OECD 203
EC50 - for Crustacea	0,307 mg/l/48h OECD 202
EC50 - for Algae / Aquatic Plants	0,32 mg/l/72h OECD 201
LC10 for Fish	0,37 mg/l/8d OECD 212
EC10 for Crustacea	0,153 mg/l/21d OECD 212
EC10 for Algae / Aquatic Plants	0,174 mg/l/72h OECD 201
Chronic NOEC for Crustacea	0,08 mg/l OECD 211

TETRAHYDRO-2-ISOBUTYL-4-METHYLPYRAN-4-OL, MIXED ISOMERS (CIS AND TRANS)

LC50 - for Fish	354 mg/l/96h OECD 203
EC50 - for Crustacea	320 mg/l/48h OECD 202
EC50 - for Algae / Aquatic Plants	> 100 mg/l/72h OECD 201

LINALOOL

LC50 - for Fish	27,8 mg/l/96h OECD 203
EC50 - for Crustacea	59 mg/l/48h OECD 202
EC10 for Algae / Aquatic Plants	54,3 mg/l/4d

(E)-3-METHYL-5-CYCLOPENTADECEN1-ONE

LC50 - for Fish	0,22 mg/l/96h OECD 203
EC50 - for Crustacea	0,39 mg/l/48h OECD 202
EC50 - for Algae / Aquatic Plants	> 0,69 mg/l/72h OECD 201
Chronic NOEC for Fish	0,18 mg/l/28d OECD 212
Chronic NOEC for Crustacea	0,121 mg/l/21d OECD 212

COUMARIN

LC50 - for Fish	37,62 mg/l/96h
EC50 - for Crustacea	82,39 mg/l/48h
EC50 - for Algae / Aquatic Plants	37,88 mg/l/72h

12.2. Persistence and degradability

3,7-DIMETHYLNONA-1,6-DIEN-3-OL
Degradability: information not available

CINNAMALDEHYDE

Rapidly degradable	100% / 28d

CITRONELLOL

Rapidly degradable	>80% / 28d

GERANIOL

Rapidly degradable	94% / 28d, OECD 301F

LINALYL ACETATE

Rapidly degradable	76% / 28d, OECD 301F

SECTION 12. Ecological information ... / >>

1,3,4,6,7,8-HEXAHYDRO-4,6,6,7,8,8-HEXAMETHYLINDENO[5,6-c]PYRAN
NOT rapidly degradable 1% / 28d, OECD 301B

(1'R,2R)-2-METHYL-4-(2',2',3'-TRI-NAL AND METHYLCYCLOPENT-3'-EN-1'-YL)-4-PENTENAL
NOT rapidly degradable 24% / 28d, OECD 301D

DAMASCENONE
Rapidly degradable 65% / 28d, OECD 301F

(E)-2-METHOXY-4-(PROP-1- ENYL)PHENOL
Rapidly degradable 79% / 28d

d-LIMONENE
Rapidly degradable 71,4% / 28d, OECD 301B

TETRAHYDRO-2-ISOBUTYL-4-METHYLPYRAN-4-OL, MIXED ISOMERS (CIS AND TRANS)
NOT rapidly degradable <10% / 28d, OECD 301B

LINALOOL
Rapidly degradable 64% / 28d OECD 301

(E)-3-METHYL-5-CYCLOPENTADECEN1-ONE
Solubility in water 0,69 mg/l
Rapidly degradable 99,9% / 28d, OECD 302A

COUMARIN
Rapidly degradable 90% / 28d OECD 301 F

12.3. Bioaccumulative potential

Information not available

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.
Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.
Waste transportation may be subject to ADR restrictions.
CONTAMINATED PACKAGING
Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

SECTION 14. Transport information ... / >>

14.1. UN number or ID number

ADR / RID, IMDG, IATA: UN 3077

ADR / RID: In accordance with Special Provision 375, this product, when is packed in receptacles of a capacity ≤ 5Kg or 5L, is not submitted to ADR provisions.

IMDG: In accordance with Section 2.10.2.7 of IMDG Code, this product, when is packed in receptacles of a capacity ≤ 5Kg or 5L, is not submitted to IMDG Code provisions.

IATA: In accordance with SP A197, this product, when is packed in receptacles of a capacity ≤ 5Kg or 5L, is not submitted to IATA dangerous goods regulations.

14.2. UN proper shipping name

ADR / RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (d-LIMONENE; (1'R,2R)-2-METHYL-4-(2',2',3'-TRI-NAL AND METHYLCYCLOPENT-3'-EN-1'-YL)-4-PENTENAL)
IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (d-LIMONENE; (1'R,2R)-2-METHYL-4-(2',2',3'-TRI-NAL AND METHYLCYCLOPENT-3'-EN-1'-YL)-4-PENTENAL)
IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (d-LIMONENE; (1'R,2R)-2-METHYL-4-(2',2',3'-TRI-NAL AND METHYLCYCLOPENT-3'-EN-1'-YL)-4-PENTENAL)

14.3. Transport hazard class(es)

ADR / RID: Class: 9 Label: 9

IMDG: Class: 9 Label: 9

IATA: Class: 9 Label: 9

14.4. Packing group

ADR / RID, IMDG, IATA: III

14.5. Environmental hazards

ADR / RID: Environmentally Hazardous

IMDG: Marine Pollutant

IATA: Environmentally Hazardous

14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 90	Limited Quantities: 5 kg	Tunnel restriction code: (-)
	Special provision: 274, 335, 375, 601		
IMDG:	EMS: F-A, S-F	Limited Quantities: 5 kg	
IATA:	Cargo:	Maximum quantity: 400 Kg	Packaging instructions: 956
	Passengers:	Maximum quantity: 400 Kg	Packaging instructions: 956
	Special provision:	A97, A158, A179, A197, A215	

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EU: E2

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product
Point 40
Contained substance
Point 75

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors
not applicable

Substances in Candidate List (Art. 59 REACH)
On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)
None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:
None

Substances subject to the Rotterdam Convention:
None

Substances subject to the Stockholm Convention:
None

Healthcare controls
Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Liq. 3	Flammable liquid, category 3
Acute Tox. 4	Acute toxicity, category 4
Asp. Tox. 1	Aspiration hazard, category 1
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Skin Sens. 1	Skin sensitization, category 1
Skin Sens. 1A	Skin sensitization, category 1A
Skin Sens. 1B	Skin sensitization, category 1B
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H304	May be fatal if swallowed and enters airways.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

SECTION 16. Other information ... / >>

H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

LEGEND:
- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent, bioaccumulative and toxic
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PMT: Persistent, mobile and toxic
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very persistent and very bioaccumulative
- vPvM: Very persistent and very mobile
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY
1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
12. Regulation (EU) 2016/1179 (IX Atp. CLP)
13. Regulation (EU) 2017/776 (X Atp. CLP)
14. Regulation (EU) 2018/669 (XI Atp. CLP)
15. Regulation (EU) 2019/521 (XII Atp. CLP)
16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
17. Regulation (EU) 2019/1148
18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
23. Delegated Regulation (UE) 2023/707

- The Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website

SECTION 16. Other information ... / >>

- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:
The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.
This document must not be regarded as a guarantee on any specific product property.
The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.
Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION
Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.
Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.
Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.