

Safety Data Sheet

According to Annex II to REACH - Regulation 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

Code: NCF17412
Product name: N°21 GREEN TEA
UFI : DS62-D010-A00F-HUN7

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

Intended use: Environment perfume

1.3. Details of the supplier of the safety data sheet

Name: MY SENSO SRL
Full address: via J. Kravogl, 5/B
District and Country: 39100 Bolzano (bz)
italia
Tel. 0471053295
Fax 0471053296
e-mail address of the competent person responsible for the Safety Data Sheet: info@mysenso.it

1.4. Emergency telephone number

For urgent inquiries refer to
CENTRI ANTIVELENO:
Bologna - Ospedale Maggiore - tel. 051/6478955
Bergamo - Ospedali Riuniti di Bergamo - 800 883300
Catania - Ospedale Garibaldi Centro Rianimazione - tel. 095/7594120
Cesena - Ospedale Maurizio Bufalini - tel. 0547/352612
Firenze - Azienda Ospedaliera Careggi - 055 7947819
Genova - Ospedale Gaslini - 010/3760873
Lecce - Ospedale Regionale Vito Fazzi - tel. 0832/351105
Messina - Unità degli Studi di Messina - tel. 090/2212451
Milano - Ospedale Niguarda Ca' Grande - tel. 02/66101029
Napoli - Ospedali Riuniti Cardarelli - tel. 081/5453333
Padova - Istituto di Farmacologia Universitaria - tel. 049/931111
Pavia - Fondazione Salvatore Maugeri - 0382 24444
Roma - Policlinico Agostino Gemelli - tel. 06/3054343
Roma - Ospedale Pediatrico Bambino Gesù - tel. 06/68593726
Roma - Policlinico Umberto I - tel 06/49978000
Torino - Università di Torino Via Achille Mario Dogli
Verona - Azienda Ospedaliera Integrata Verona - tel. 800011858

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:

Flammable liquid, category 2	H225	Highly flammable liquid and vapour.
Eye irritation, category 2	H319	Causes serious eye irritation.
Hazardous to the aquatic environment, chronic toxicity, category 3	H412	Harmful to aquatic life with long lasting effects.

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SECTION 2. Hazards identification ... / >>

2.2. Label elements

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

Hazard pictograms:



Signal words:

Danger

Hazard statements:

H225

Highly flammable liquid and vapour.

H319

Causes serious eye irritation.

H412

Harmful to aquatic life with long lasting effects.

EUH208

Contains: reaction mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one
Citral
(Z)-3,4,5,6,6-Pentamethylhept-3-2-one
Citronellol
Linalool
Linalyl acetate
(R)-P-MENTHA-1,8-DIENE
May produce an allergic reaction.

Precautionary statements:

P501

Dispose of contents and container to accord to local, regional, national, international regulations.

P102

Keep out of reach of children.

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280

Wear protective gloves/ protective clothing / eye protection / face protection.

P101

If medical advice is needed, have product container or label at hand.

P302+P352

IF ON SKIN: Wash with plenty of water and soap.

P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P333+P313

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

P337+P313

If eye irritation persists: Get medical advice / attention.

2.3. Other hazards

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

The product does not contain substances with endocrine disrupting properties in concentration $\geq$ 0.1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
Ethanol		
INDEX 603-002-00-5	78 $\leq$ x < 82	Flam. Liq. 2 H225, Eye Irrit. 2 H319
EC 200-578-6		Eye Irrit. 2 H319: $\geq$ 50%
CAS 64-17-5		
REACH Reg. 01-2119457610-43-xxxx		
1- (5,6,7,8-Tetrahydro-3,5,6,6,8,8-Hexamethyl-2-Naphthyl)		
INDEX 216-133-4	0,5 $\leq$ x < 0,6	Ethan-1 -one
EC 1506-02-1		Acute Tox. 4 H302, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
CAS 1506-02-1		STA Oral: 500 mg/kg
REACH Reg. 01-2119539433-40-xxxx		

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

(R)-P-MENTHA-1,8-DIENE

INDEX 601-096-00-2 0,5 ≤ x < 0,6

Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Skin Sens. 1B H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1

EC 227-813-5

CAS 5989-27-5

REACH Reg. 01-2119529223-47-xxxx

Linalool

INDEX 603-235-00-2 0,354 ≤ x < 0,404

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-xxxx

Linalyl acetate

INDEX 0,354 ≤ x < 0,404

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-xxxx

Citral

INDEX 0,2 ≤ x < 0,25

Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317

EC 226-394-6

CAS 5392-40-5

REACH Reg. 01-2119462829-23-xxxx

reaction mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and**1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and****1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one**

INDEX 0,2 ≤ x < 0,25

Skin Irrit. 2 H315, Skin Sens. 1B H317, Aquatic Chronic 2 H411

EC 915-730-3

CAS 54464-57-2

REACH Reg. 01-2119489989-04-xxxx

(Z) -3,4,5,6,6-Pentamethylhept-3-2-one

INDEX 0,2 ≤ x < 0,25

Skin Sens. 1 H317, Aquatic Chronic 2 H411

EC 279-822-9

CAS 81786-73-4

REACH Reg. 01-2119980043-42-XXXX

Citronellol

INDEX 0,2 ≤ x < 0,25

Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317

EC

203-375-0 CAS

106-22-9

REACH Reg. 01-2119453995-23-xxxx

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 contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.

INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

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SECTION 5. Firefighting measures ... / >>

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.

Ethanol

la combustione genererà ossidi di carbonio

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

Block the leakage if there is no hazard.

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.

Send away individuals who are not suitably equipped. Use explosion-proof equipment. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

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 into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. 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. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. 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)

Information not available

MY SENSO SRL

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Replaced revision:4 (Dated 15/03/2023)

EN

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

DEU

Deutschland

Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56

ESP

España

Límites de exposición profesional para agentes químicos en España 2021

ITA

Italia

Decreto Legislativo 9 Aprile 2008, n.81

TLV-ACGIH

ACGIH 2021

(R)-P-MENTHA-1,8-DIENE

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

Predicted no-effect concentration - PNEC

Normal value in fresh water	14	ug/l
Normal value in marine water	1,4	ug/l
Normal value for fresh water sediment	3,85	mg/kg
Normal value for marine water sediment	0,385	mg/kg
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

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers			Effects on workers				
	Acute	Acute	Chronic	Chronic	Acute local	Acute	Chronic	Chronic
	local	systemic	local	systemic		systemic	local	systemic
Oral				4.8				
				mg/kg				
Inhalation				16.6				66.7
				mg/m3				mg/m3
Skin				4.8				9.5
				mg/kg				mg/kg
								bw/d

reaction mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,0044	mg/l
Normal value in marine water	0,00044	mg/l
Normal value for fresh water sediment	3,73	mg/kg
Normal value for marine water sediment	0,75	mg/kg
Normal value of STP microorganisms	10	mg/l
Normal value for the food chain (secondary poisoning)	0,0267	g/kg
Normal value for the terrestrial compartment	2,7	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers			Effects on workers				
	Acute	Acute	Chronic	Chronic	Acute local	Acute	Chronic	Chronic
	local	systemic	local	systemic		systemic	local	systemic
Oral				3				
				mg/kg				
Inhalation				9				30
				mg/m3				mg/m3
Skin			380	17,2			648	28,7
			ug/cm2	mg/kg bw/d			ug/cm2	mg/kg
								bw/d

©EPY 11.4.1 - SDS 1004.14

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

Linalool

Predicted no-effect concentration - PNEC

Normal value in fresh water	200	ug/l
Normal value in marine water	20	ug/l
Normal value for fresh water sediment	2220	ug/l
Normal value for marine water sediment	222	ug/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	327	ug/l

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers		Effects on workers					
	Acute	Acute	Chronic	Chronic	Acute local	Acute	Chronic	Chronic
	local	systemic	local	systemic		systemic	local	systemic
Oral			0.2	2,49 mg/kg bw/d				
Inhalation			0.7	4,33 mg/m3			2.8	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

Linalyl acetate

Predicted no-effect concentration - PNEC

Normal value in fresh water	11	mg/l
Normal value in marine water	1,1	mg/l
Normal value for fresh water sediment	609	mg/kg
Normal value for marine water sediment	60,9	mg/kg
Normal value for the terrestrial compartment	115	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers		Effects on workers					
	Acute	Acute	Chronic	Chronic	Acute local	Acute	Chronic	Chronic
	local	systemic	local	systemic		systemic	local	systemic
Oral				0.20 mg/kg				
Inhalation				0.68 mg/m3				2.75 mg/m3
Skin				14,25 mg/kg				2.5 mg/kg

Citral

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,007	mg/l
Normal value in marine water	0,001	mg/l
Normal value for fresh water sediment	0,125	mg/kg
Normal value for marine water sediment	0,013	mg/kg
Normal value of STP microorganisms	1,6	mg/l
Normal value for the terrestrial compartment	0,021	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers		Effects on workers					
	Acute	Acute	Chronic	Chronic	Acute local	Acute	Chronic	Chronic
	local	systemic	local	systemic		systemic	local	systemic
Oral				0.6 mg/kg				
Inhalation				2.7 mg/m3				9 mg/m3
Skin				1 mg/kg				1.7 mg/kg

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

1- (5,6,7,8-Tetrahydro-3,5,6,8.8-Hexamethyl-2-Naphthyl) Ethan-1 -one

Predicted no-effect concentration - PNEC

Normal value in fresh water	2,2	ug/l
Normal value in marine water	0,22	ug/l
Normal value for fresh water sediment	1720	ug/l
Normal value for marine water sediment	345	ug/l
Normal value of STP microorganisms	2,2	mg/l
Normal value for the terrestrial compartment	9,9	ug/l

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers		Effects on workers		Acute local	Acute systemic	Chronic local	Chronic systemic
	Acute local	Acute systemic						
Oral			0.0125	0.0125				
Inhalation			0.0435	0.0435			0.175	0.175
Skin			0.305	0.305			0.610	0.61
				mg/kg				mg/kg

Ethanol

Threshold Limit Value

Type	Country	TWA/8h	STEL/15min	Remarks / Observations
		mg/m3	ppm	
VLEP	ITA	60	240	SKIN
TLV-ACGIH			1884	1000
				SKIN

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,96	mg/l
Normal value in marine water	0,79	mg/l
Normal value for fresh water sediment	3,6	mg/kg/d
Normal value for marine water sediment	2,9	mg/kg/d
Normal value for the food chain (secondary poisoning)	0,00072	kg/kg
Normal value for the terrestrial compartment	0,63	mg/kg/d

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers		Effects on workers		Acute local	Acute systemic	Chronic local	Chronic systemic
	Acute local	Acute systemic						
Oral								
Inhalation	950				1900			950
Skin	mg/kg				mg/m3			mg/m3
					206			mg/kg bw/d

Citronellol

Predicted no-effect concentration - PNEC

Normal value in fresh water	2,4	ug/l
Normal value in marine water	0,24	ug/l
Normal value for fresh water sediment	25,6	ug/l
Normal value for marine water sediment	2,56	ug/l
Normal value of STP microorganisms	580	mg/l
Normal value for the terrestrial compartment	3,71	ug/l

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers		Effects on workers		Acute local	Acute systemic	Chronic local	Chronic systemic
	Acute local	Acute systemic						
Oral								
Inhalation								161,6
Skin								327,4
								mg/kg

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.

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

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

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category I 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.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, wear a mask with a type AX filter, whose limit of use will be defined by the manufacturer (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

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	liquid	Concentration: 100 % Temperature: 20 °C
Colour	yellow	Concentration: 100 % Temperature: 20 °C
Odour	characteristic	Concentration: 100 % Temperature: 20 °C
Melting point / freezing point	not available	Reason for missing data: dato non misurato
Initial boiling point	> 35 °C	Concentration: 100 %
Flammability	non pertinente	
Lower explosive limit	3,5 % (v/v)	Remark: Etanolo Concentration: 100 % Temperature: 20 °C
Upper explosive limit	15 % (v/v)	Remark: Etanolo Concentration: 100 % Temperature: 20 °C
Flash point	< 23 °C	Concentration: 100 %
Auto-ignition temperature	< 425 °C	Remark: Etanolo Concentration: 100 %
Decomposition temperature	non disp°oCnibile	Remark: test non effettuato
Self-accelerating decomposition temperature (SADT)	not available	Remark: test non effettuato
pH	6,5	Concentration: 100 % Temperature: 20 °C
Kinematic viscosity	not available	Remark: non rilevata
Dynamic viscosity	non disponibile	Remark: non rilevata
Solubility	solubile in alcool	Concentration: 100 % Temperature: 20 °C
Partition coefficient: n-octanol/water	non disponibile	Remark: non applicabile
Vapour pressure	not available	Remark: non disponibile
Density and/or relative density	0,85 kg/l	Concentration: 100 % Temperature: 20 °C

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

Relative vapour density not available Reason for missing data: dato non misurato

Particle characteristics

Median equivalent diameter

Remark: Non applicabile

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

VOC (Directive 2010/75/EU)	0,56 % - 4,76	g/litre	
VOC (volatile carbon)	0,49 % - 4,19	g/litre	
Explosive properties	non esplosivo		Concentration: 100 % Temperature: 20 °C
Oxidising properties	non ossidante		Concentration: 100 % Temperature: 20 °C

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

The vapours may also form explosive mixtures with the air.

10.4. Conditions to avoid

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

10.5. Incompatible materials

Linalool

Basi, Acidi forti, Agenti ossidanti forti

Ethanol

gomma naturale, PVC, plastica metil-metacrilato, poliammidi, zinco, ottone, alluminio in determinate condizioni.

10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

Ethanol

Stabile in condizioni normali. La combustione genererà ossidi di carbonio.

SECTION 11. Toxicological information

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

reaction mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and
1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and
1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one
Repeated dose toxicity (OECD Test Guideline 407) - NOAEL: 120 mg/kg; LOAEL: n.a. mg/kg
Dermal toxicity - human (RIFM-Research Institute for Fragrance Materials or OECD Test Guideline 402):
NOEL (no observed effect level): >6000 µg/cm²
LOEL (lowest observed effect level): n.a. µg/cm²
NESIL (no expected sensitization induction level): 47200 µg/cm²
Skin corrosion/irritation (dermal)(HRIPT): irritating @45%

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SECTION 11. Toxicological information ... / >>

Skin sensitization (HRIPT): sensitizing >6%
 Eye: Irritation (ocular)(FHSA): non irritating
 Inhalation toxicity (OECD Test Guideline 403): n.a. mg/m3
 Developmental NOAEL maternal: 240 mg/kg; NOAEL foetal: 480 mg/kg
 Reproductive Toxicity NOAEL: n.a. mg/kg
 Genotoxicity (in vivo): negative. Genotoxicity (in vitro): negative

Linalool

Repeated dose toxicity (OECD Test Guideline 407) - NOAEL: 160 mg/kg; LOAEL: n/a mg/kg
 Dermal toxicity - human (RIFM-Research Institute for Fragrance Materials or OECD Test Guideline 407):
 NOEL (no observed effect level): 15000 µg/cm²
 LOEL (lowest observed effect level): n/a µg/cm²
 NESIL (no expected sensitization induction level): 15000 µg/cm²
 Skin corrosion/irritation (dermal)(HRIPT): irritating
 Skin sensitization (HRIPT): sensitizing
 Eye: Irritation (ocular)(FHSA): irritating
 Inhalation toxicity (OECD Test Guideline 403): n/a mg/m3
 Developmental NOAEL maternal: 500 mg/kg; NOAEL foetal: 1000 mg/kg
 Reproductive Toxicity NOAEL: 500 mg/kg
 Genotoxicity (in vivo): negative. Genotoxicity (in vitro): negative

Linalyl acetate

Repeated dose toxicity (OECD Test Guideline 407) - NOAEL: 160 mg/kg; LOAEL: 400 mg/kg
 Dermal toxicity - human (RIFM-Research Institute for Fragrance Materials or OECD Test Guideline 402):
 NOEL (no observed effect level): 6000 µg/cm²
 LOEL (lowest observed effect level): n.a. µg/cm²
 NESIL (no expected sensitization induction level): n.a. µg/cm²
 Skin corrosion/irritation (dermal)(HRIPT): not irritating
 Skin sensitization (HRIPT): non sensitizing
 Eye: Irritation (ocular)(FHSA): non irritating
 Inhalation toxicity (OECD Test Guideline 403): LC50 n/a mg/m3
 Developmental NOAEL maternal: 500 mg/kg; NOAEL foetal: 500 mg/kg
 Reproductive Toxicity NOAEL: n.a. mg/kg
 Genotoxicity (in vivo): negative. Genotoxicity (in vitro): negative

Citral

Repeated dose toxicity (OECD Test Guideline 407) - NOAEL: 60 mg/kg; LOAEL: 60 mg/kg
 Dermal toxicity - human (RIFM-Research Institute for Fragrance Materials or OECD Test Guideline 407):
 NOEL (no observed effect level): 1414 µg/cm²
 LOEL (lowest observed effect level): 3876 µg/cm²
 NESIL (no expected sensitization induction level): 1400 µg/cm²
 Skin corrosion/irritation (dermal)(HRIPT): irritating
 Skin sensitization (HRIPT): sensitizing
 Eye: Irritation (ocular)(FHSA): mildly irritant
 Inhalation toxicity (OECD Test Guideline 403): LC50 34 mg/m3
 Developmental NOAEL maternal: 60 mg/kg; NOAEL foetal: 60 mg/kg
 Reproductive Toxicity NOAEL: 1000 mg/kg
 Genotoxicity (in vivo): negative. Genotoxicity (in vitro): negative

1- (5,6,7,8-Tetrahydro-3,5,6,6,8,8-Hexamethyl-2-Naphthyl) Ethan-1 -one

b) corrosione/irritazione cutanea:

Negativo

c) lesioni oculari gravi/irritazioni oculari gravi:

Negativo

d) sensibilizzazione respiratoria o cutanea:

Negativo

e) mutagenicità delle cellule germinali:

Negativo

f) cancerogenicità:

Negativo

g) tossicità per la riproduzione:

Negativo

h) tossicità specifica per organi bersaglio (STOT) — esposizione singola:

Negativo

i) tossicità specifica per organi bersaglio (STOT) — esposizione ripetuta:

Negativo

j) pericolo in caso di aspirazione:

Negativo

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SECTION 11. Toxicological information ... / >>

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

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)

(R)-P-MENTHA-1,8-DIENE

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

reaction mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and
1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and
1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one

LD50 (Dermal):	> 5000 mg/kg ECHA
LD50 (Oral):	> 5000 mg/kg ECHA
LC50 (Inhalation gas):	> 22,36 ppm/4h ECHA

Linalool

LD50 (Dermal):	5610 mg/kg ECHA
LD50 (Oral):	2200 mg/kg ECHA
LC50 (Inhalation gas):	> 3,2 mg/l ECHA

Linalyl acetate

LD50 (Oral):	14550 mg/kg
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Citral

LD50 (Dermal):	> 2000 mg/kg ECHA
LD50 (Oral):	6800 mg/kg ECHA

1- (5,6,7,8-Tetrahydro-3,5,6,6,8.8-Hexamethyl-2-Naphthyl) Ethan-1 -one

LD50 (Dermal):	7940 mg/kg
LD50 (Oral):	3700 mg/kg

Ethanol

LD50 (Oral):	> 5000 mg/kg Rat
LC50 (Inhalation vapours):	> 120 mg/l/4h Pimephales promelas

Citronellol

LD50 (Dermal):	2650 mg/kg
LD50 (Oral):	3450 mg/kg

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction.

Contains:

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SECTION 11. Toxicological information ... / >>

reaction mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and
1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and
1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one

Citral

(Z) -3,4,5,6,6-Pentamethylhept-3-2-one

Citronellol

Linalool

Linalyl acetate

(R)-P-MENTHA-1,8-DIENE

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 the aquatic organisms. In the long term, it have negative effects on aquatic environment.

12.1. Toxicity

Linalool

c) Tossicità per i batteri - Endpoint: EC50 - Specie: Microrganismi (Bacterial Reverse Mutation Test: OECD 471) 100 mg/l - Durata h: 3 - Note: ECHA

Citral

c) Tossicità per i batteri - Endpoint: EC50 - Specie: Microrganismi (Bacterial Reverse Mutation Test: OECD 471) 160 mg/l - Durata h: 3 - Note: ECHA

1- (5,6,7,8-Tetrahydro-3,5,6,6,8,8-Hexamethyl-2-Naphthyl) Ethan-1 -one

c) Tossicità per i batteri - Endpoint: EC50 - Specie: Microrganismi (Bacterial Reverse Mutation Test: OECD 471) 22 mg/l - Durata h: 3 - Note: ECHA

Citronellol

a) Tossicità acquatica acuta - Endpoint: EC50 - Specie: Microrganismi (Bacterial Reverse Mutation Test: OECD 471) 10000 mg/l - Durata h: 3 - Note: ECHA

(R)-P-MENTHA-1,8-DIENE

LC50 - for Fish

35 mg/l/96h Oncorhynchus mykiss

EC50 - for Crustacea

69,6 mg/l/48h Daphnia pulex

reaction mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and
1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and

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1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	
LC50 - for Fish	1,3 mg/l/96h ECHA
EC50 - for Crustacea	1,38 mg/l/48h ECHA
EC50 - for Algae / Aquatic Plants	2,6 mg/l/72h ECHA
Chronic NOEC for Fish	0,16 mg/l ECHA
Chronic NOEC for Crustacea	0,044 mg/l ECHA
Chronic NOEC for Algae / Aquatic Plants	2,6 mg/l ECHA
Linalool	
LC50 - for Fish	27,8 mg/l/96h ECHA
EC50 - for Crustacea	59 mg/l/48h ECHA
EC50 - for Algae / Aquatic Plants	156,7 mg/l/72h ECHA
Linalyl acetate	
LC50 - for Fish	11 mg/l/96h ECHA
EC50 - for Crustacea	59 mg/l/48h ECHA
EC50 - for Algae / Aquatic Plants	156 mg/l/72h ECHA
Citral	
LC50 - for Fish	6,78 mg/l/96h ECHA
EC50 - for Crustacea	6,8 mg/l/48h ECHA
EC50 - for Algae / Aquatic Plants	103,84 mg/l/72h ECHA
1- (5,6,7,8-Tetrahydro-3,5,6,6,8,8-Hexamethyl-2-Naphthyl) Ethan-1 -one	
LC50 - for Fish	0,035 mg/l/96h ECHA
EC50 - for Crustacea	0,61 mg/l/48h ECHA
EC50 - for Algae / Aquatic Plants	0,835 mg/l/72h ECHA
Ethanol	
LC50 - for Fish	13500 mg/l/96h
EC50 - for Crustacea	12340 mg/l/48h
EC50 - for Algae / Aquatic Plants	275 mg/l/72h
Chronic NOEC for Crustacea	> 10 mg/l
Chronic NOEC for Algae / Aquatic Plants	3240 mg/l
Citronellol	
LC50 - for Fish	14,66 mg/l/96h ECHA
EC50 - for Crustacea	17,48 mg/l/48h ECHA
EC50 - for Algae / Aquatic Plants	2,4 mg/l/72h ECHA

12.2. Persistence and degradability

(R)-P-MENTHA-1,8-DIENE	
Solubility in water	0,1 - 100 mg/l
Rapidly degradable	
Ethanol	
Solubility in water	>1000-10000 mg/l
Rapidly degradable	

12.3. Bioaccumulative potential

(R)-P-MENTHA-1,8-DIENE	
Partition coefficient: n-octanol/water	4,38
BCF	1022
Ethanol	
Partition coefficient: n-octanol/water	> 3,5 Log Kow

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 $\geq$ than 0,1%.

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SECTION 12. Ecological information ... / >>

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

14.1. UN number or ID number

ADR / RID, IMDG, IATA: 1266

14.2. UN proper shipping name

ADR / RID: PERFUMERY PRODUCTS
IMDG: PERFUMERY PRODUCTS
IATA: PERFUMERY PRODUCTS

14.3. Transport hazard class(es)

ADR / RID: Class: 3 Label: 3



IMDG: Class: 3 Label: 3



IATA: Class: 3 Label: 3



14.4. Packing group

ADR / RID, IMDG, IATA: II

14.5. Environmental hazards

ADR / RID: NO
IMDG: NO
IATA: NO

14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 33	Limited Quantities: 5 L	Tunnel restriction code: (D/E)
	Special provision: 163, 640D		
IMDG:	EMS: F-E, S-D	Limited Quantities: 5 L	
IATA:	Cargo:	Maximum quantity: 60 L	Packaging instructions: 364
	Pass.:	Maximum quantity: 5 L	Packaging instructions: 353
	Special provision:	A3, A72	

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

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SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EU:

P5c

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

Product

Point 3 - 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 $\geq$ 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 been performed for the product

SECTION 16. Other information

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

Flam. Liq. 2	Flammable liquid, category 2
Flam. Liq. 3	Flammable liquid, category 3
Acute Tox. 4	Acute toxicity, category 4
Asp. Tox. 1	Aspiration hazard, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
Skin Sens. 1	Skin sensitization, category 1
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
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
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.

LEGEND:

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SECTION 16. Other information ... / >>

- 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 as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- 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 as for REACH Regulation
- 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
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 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
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- 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
 - 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.

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SECTION 16. Other information ... / >>

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.

Changes to previous review:

The following sections were modified:

01 / 02 / 03 / 05 / 08 / 09 / 10 / 11 / 12 / 14.