

SAFETY DATA SHEET

according to Regulation No. 1907/2006 of the European Parliament and of the Council, as subsequently amended

CLEAMEN 101/201

Date of revision: 14. 10. 2024

Version: 3.2

Replaced version from: 06. 03. 2023

Date of issue: 30. 09. 2020

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

1.1. Product identifier

Product Name

CLEAMEN 101/201

UFI code

UFI: A9K0-M0HX-H00K-QR97

Product code

VC10101.

Mixture description

Aqueous solution of isopropanol, emulsifier, and perfume.

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

Identified uses

Liquid odor neutralizer and interior freshener. It effectively decomposes odors and leaves a fresh scent.
Consumer and professional use.

Uses advised against

Not known. It is recommended to use it only for the intended use. Other uses may expose users to unpredictable risks.

1.3. Details of the supplier of the safety data sheet

CORMEN s.r.o.

Věchnov 73

593 01

Czech Republic

telephone: +420 566 550 961

Fax: +420 566 551 822

e-mail address for a competent person responsible for the SDS: info@cormen.cz

1.4. Emergency telephone number

112 (General emergency phone).

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture is classified as **hazardous** according to regulation 1272/2008/EC.

Classification according to 1272/2008/EC

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Flam. Liq. 3; H226

Eye Irrit. 2; H319

STOT SE 3; H336

Aquatic Chronic 3; H412

Full text of classifications and H-phrases: see section 16.

The most important adverse physical, human health and environmental effects

Flammable liquid and vapour. Causes serious eye irritation. May cause drowsiness or dizziness. Harmful to aquatic life with long lasting effects. May produce an allergic reaction.

2.2. Label elements

Hazard pictograms



Signal word

Warning.

Substances of the mixture to be placed on the label

Contains Propan-2-ol.

Hazard statements

H226	Flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P273	Avoid release to the environment.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P501	Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. Dispose of the cleaned packaging without any residual product content in the sorted waste.

Supplemental hazard information

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EUH208 - Contains (Z)-3,4,5,6,6-Pentamethylhept-3-en-2-one, 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, (R)-p-Mentha-1,8-diene, Linalool, Hexyl salicylate, (E)-2-Benzylideneoctanal, 3-p-Cumenyl-2-methylpropionaldehyde. May produce an allergic reaction.

2.3. Other hazards

Mixture does not contain substance(s) meeting the criteria for persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) in accordance with Annex XIII of REACH regulation. The mixture and its substances are not mentioned on the Candidate list for possible inclusion in Annex XIV of REACH at the date of the revision of the safety data sheet (established in accordance with Article 59(1) of REACH regulation. Mixture does not contain the substance(s) 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.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

3.2.1. Substances of a mixture classified as hazardous

Identification of substance		Content wt. %	Classification according to 1272/2008/EC
Propan-2-ol; Isopropyl alcohol; Isopropanol			
CAS Number	67-63-0	20 - < 40	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336
EC Number	200-661-7		
Index Number	603-117-00-0		
Registration Number	01-2119457558-25-XXXX		
(Z)-3,4,5,6,6-Pentamethylhept-3-en-2-one; Koavane			
CAS Number	81786-73-4	0.1 - < 1	Skin Sens. 1B; H317 Aquatic Chronic 2; H411
EC Number	279-822-9		
Index Number	not given		
Registration Number	not yet available		
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			
CAS Number	not given	0.1 - < 0.5	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Chronic 1; H410 M(Chronic) = 1
EC Number	915-730-3		
Index Number	not given		
Registration Number	01-2119489989-04-XXXX		
(R)-p-Mentha-1,8-diene; d-Limonene			
CAS Number	5989-27-5	0.1 - < 0.5	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Acute 1; H400 Aquatic Chronic 3; H412 M=1
EC Number	227-813-5		
Index Number	601-096-00-2		
Registration Number	01-2119529223-47-XXXX		

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Linalool; 3,7-Dimethyl-1,6-octadien-3-ol; dl-Linalool			
CAS Number	78-70-6	0.1 - < 0.5	Skin Irrit. 2; H315
EC Number	201-134-4		Skin Sens. 1B; H317
Index Number	603-235-00-2		Eye Irrit. 2; H319
Registration Number	01-2119474016-42-XXXX		
Hexyl salicylate			
CAS Number	6259-76-3	0.1 - < 0.5	Skin Sens. 1B; H317
EC Number	228-408-6		Aquatic Chronic 1; H410
Index Number	not given		M=1
Registration Number	01-2119638275-36-XXXX		
(E)-2-Benzylideneoctanal; α-Hexylcinnamaldehyde			
CAS Number	165184-98-5	0.1 - < 0.5	Skin Sens. 1; H317
EC Number	639-566-4		Aquatic Acute 1; H400
Index Number	not given		Aquatic Chronic 2; H411
Registration Number	01-2119533092-50-XXXX		M=1
4-Methyl-3-decen-5-ol			
CAS Number	81782-77-6	0.1 - < 0.5	Aquatic Acute 1; H400
EC Number	279-815-0		Aquatic Chronic 2; H411
Index Number	neuvedeno		M=1
Registration Number	01-2119983528-21-XXXX		
3-p-Cumenyl-2-methylpropionaldehyde			
CAS Number	103-95-7	0.1 - < 0.5	Skin Irrit. 2; H315
EC Number	203-161-7		Skin Sens. 1B; H317
Index Number	not given		Aquatic Chronic 3; H412
Registration Number	01-2119970582-32-XXXX		
Full text of classifications and H-phrases: see section 16.			
SECTION 4: First aid measures			
In all cases keep the victim at physical and mental rest and warm. In case of doubt or if symptoms persist, seek medical attention. Never give anything by mouth if victim is rapidly losing consciousness, unconscious or convulsing. Protect yourself during rescue work.			
4.1. Description of first aid measures			
Inhalation			
Interrupt the exposure, move the person to the fresh air. In case of persistent nausea, seek medical advice.			
Skin contact			
Remove contaminated clothing, shoes, and wash affected skin thoroughly with water (preferably lukewarm) and soap. Do not use solvents or thinners. If the problem persists, seek medical advice.			
Eye contact			
Rinse with a gentle stream of water for at least 15 minutes. Keep your eyelids wide open with your thumb and forefinger. If the affected person is wearing contact lenses, remove them before rinsing eyes if it is easy. If pain or redness persists, seek medical advice.			
Ingestion			

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Rinse your mouth and then drink plenty of water. Do not induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Seek medical advice.

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

Are not known.

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

Treat symptomatically and supportively.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Small fire:

Carbon dioxide CO₂, dry extinguishing agent, sand or earth, alcohol-resistant foam.

Extensive fire:

Framgmented water streams (water mist), alcohol-resistant foam.

Unsuitable extinguishing media

Solid streams of water may be ineffective.

5.2. Special hazards arising from the substance or mixture

In case of fire extinguishing prevent leakage of water and rest of product into drains. Collect them separately and dispose of safely in accordance with current legislation and applicable local regulations.

In case of fires, hazardous combustion gases are formed: carbon oxides, nitrogen oxides, ammonia and products of incomplete combustion.

5.3. Advice for firefighters

Stop further leakage of product if possible. Spilled product, which does not burn, cover with sand or foam. Move containers and barrels away from the fire to a safe place, if possible. Cool all affected containers down with flooding quantities of water. If the fire can't be extinguished - evacuate the premises.

In case of fire, wear suitable respiratory protective equipment and fire-fighting suit.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes, use suitable protective equipment and clothing, see Section 8. Ensure adequate ventilation. Avoid formation of vapour and aerosol. At the point of leakage, prevent the movement of unauthorized persons.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. If this cannot be avoided, inform the competent authorities (police and firefighters) immediately.

6.3. Methods and material for containment and cleaning up

According to the amount of spilled liquid, drain away the substance (large spillage) or in case of small spillage, absorb it with suitable absorbent (vermiculite, dry sand), put into labelled closed containers and dispose of them accordingly to Section 13. Flush residues with water and collect it for waste disposal. Do not use solvents or dispersants unless instructed by an expert or government authority.

If container is damaged, remove the content to the new undamaged container and label it properly again.

6.4. Reference to other sections

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Refer also to the provisions of sections 7, 8 and 13 of this safety data sheet.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes. Personal protection see. Section 8. Ensure good ventilation to prevent formation of vapour and aerosol.

Smoking, eating and drinking should be prohibited at the place of use. Keep safety regulations for handling chemicals. Take off contaminated clothing and protective equipment before entering the dining area. Do not use dirty clothing. After work wash yourself carefully with warm water and soap, take a shower. Use protective cream.

7.2. Conditions for safe storage, including any incompatibilities

Store in original, tightly closed containers, in a dry, cool and well-ventilated place at temperature 10 - 25 °C.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

Do not store together with incompatible materials (see subsection 10.5), food, drink and feed.

7.3. Specific end use(s)

The product can be sprayed concentrated or diluted on walls, furniture (including wooden furniture), for textile upholstery, curtains and blinds. The product neutralizes odors in fabrics, on interior surfaces, even in space.

The product is used concentrated in a spray or diluted - by adding to the water in a bucket.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Exposure limit value

Not determined.

8.1.2. Biological limit values

Not determined in EU.

8.1.3. DNEL and PNEC values

Propan-2-ol

CAS: 67-63-0

DNEL

Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	500 mg/m ³
Workers	Inhalation	Systemic effect	Acute/short term	1 000 mg/m ³
Workers	Dermal	Systemic effect	Long term	888 mg/kg/day
General population	Inhalation	Systemic effect	Long term	89 mg/m ³
General population	Inhalation	Systemic effect	Acute/short term	178 mg/m ³
General population	Dermal	Systemic effect	Long term	319 mg/kg/day
General population	Oral	Systemic effect	Long term	26 mg/kg/day
General population	Oral	Systemic effect	Acute/short term	51 mg/kg/day

PNEC - not available

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 EC: 915-730-3

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Workers	Inhalation	Systemic effect	Long term	30 mg/m ³
Workers	Dermal	Systemic effect	Long term	28.7 mg/kg/day
Workers	Dermal	Local effect	Long term	648 µg/cm ²
General population	Inhalation	Systemic effect	Long term	9 mg/m ³
General population	Dermal	Systemic effect	Long term	17.2 mg/kg/day
General population	Dermal	Local effect	Long term	380 µg/cm ²
General population	Oral	Systemic effect	Long term	3 mg/kg/day
PNEC				
Fresh water	Marine water	Intermittent releases		Sewage Treatment Plant (STP)
		Fresh water	Marine water	
25 µg/l	2.5 µg/l	not given	not given	10 mg/l
PNEC				
Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators
3.73 mg/kg	0.75 mg/kg	not effect	2.7 mg/kg	26.7 mg/kg food
(R)-p-Mentha-1,8-diene				CAS: 5989-27-5
DNEL				
Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	66.7 mg/m ³
Workers	Dermal	Systemic effect	Long term	9.5 mg/kg/day
General population	Inhalation	Systemic effect	Long term	16.6 mg/m ³
General population	Dermal	Systemic effect	Long term	4.8 mg/kg/day
General population	Oral	Systemic effect	Long term	4.8 mg/kg/day
PNEC				
Fresh water	Marine water	Intermittent releases		Sewage Treatment Plant (STP)
		Fresh water	Marine water	
14 µg/l	1.4 µg/l	not given	not given	1.8 mg/l
PNEC				
Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators
3.85 mg/l	0.385 mg/kg	not effect	0.763 mg/kg	133 mg/kg food
Linalool				CAS: 78-70-6
DNEL				
Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	24.58 mg/m ³

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Workers	Dermal	Systemic effect	Long term	3.5 mg/kg/day
Workers	Dermal	Local effect	Long term	3 mg/cm ²
Workers	Dermal	Local effect	Acute/short term	3 mg/cm ²
General population	Inhalation	Systemic effect	Long term	4.33 mg/m ³
General population	Dermal	Systemic effect	Long term	1.25 mg/kg/day
General population	Dermal	Local effect	Long term	1.5 mg/cm ²
General population	Dermal	Local effect	Acute/short term	1.5 mg/cm ²
General population	Oral	Systemic effect	Long term	2.49 mg/kg/day
PNEC				
Fresh water	Marine water	Intermittent releases		Sewage Treatment Plant (STP)
0.2 mg/l	0.02 mg/l	Fresh water	Marine water	10 mg/l
		2 mg/l	not given	
PNEC				
Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators
2.22 mg/l	0.222 mg/kg	no effect	0.327 mg/kg	7.8 mg/kg food
Hexyl salicylate				CAS: 6259-76-3
DNEL				
Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	1.7 mg/m ³
Workers	Dermal	Systemic effect	Long term	6.4 mg/kg/day
Workers	Dermal	Local effect	Long term	885 µg/cm ²
Workers	Dermal	Local effect	Acute/short term	885 µg/cm ²
General population	Inhalation	Systemic effect	Long term	0.4 mg/m ³
General population	Dermal	Systemic effect	Long term	3.2 mg/kg/day
General population	Dermal	Local effect	Long term	442.5 µg/cm ²
General population	Dermal	Local effect	Acute/short term	442.5 µg/cm ²
General population	Oral	Systemic effect	Long term	0.3 mg/kg/day
PNEC				
Fresh water	Marine water	Intermittent releases		Sewage Treatment Plant (STP)
0 mg/l	0 mg/l	Fresh water	Marine water	10 mg/l
		0.004 mg/l	not given	
PNEC				
Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators
0.272 mg/kg	0.027 mg/kg	not given	0.054 mg/kg	not given
(E)-2-Benzylidenooctanal				CAS: 165184-98-5

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DNEL				
Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	0.078 mg/m ³
Workers	Inhalation	Local effect	Acute/short term	6.28 mg/m ³
Workers	Dermal	Systemic effect	Long term	18.2 mg/kg/day
Workers	Dermal	Local effect	Long term	525 µg/cm ²
Workers	Dermal	Local effect	Acute/short term	525 µg/cm ²
General population	Inhalation	Systemic effect	Long term	0.019 mg/m ³
General population	Inhalation	Local effect	Acute/short term	4.71 mg/m ³
General population	Dermal	Systemic effect	Long term	9.11 mg/kg/day
General population	Dermal	Local effect	Long term	78.7 µg/cm ²
General population	Dermal	Local effect	Acute/short term	78.7 µg/cm ²
General population	Oral	Systemic effect	Long term	0.056 mg/kg/day
PNEC				
Fresh water	Marine water	Intermittent releases		Sewage Treatment Plant (STP)
		Fresh water	Marine water	
0.001 mg/l	0 mg/l	0.002 mg/l	not given	10 mg/l
PNEC				
Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators
3.2 mg/kg	0.064 mg/kg	no effect	0.398 mg/kg	6.6 mg/kg food
4-Methyl-3-decen-5-ol				CAS: 81782-77-6
DNEL				
Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	98.7 mg/m ³
Workers	Inhalation	Systemic effect	Acute/short term	35.26 mg/m ³
Workers	Inhalation	Local effect	Long term	88.16 mg/m ³
Workers	Inhalation	Local effect	Acute/short term	88.16 mg/m ³
Workers	Dermal	Systemic effect	Long term	10 mg/kg/day
Workers	Dermal	Systemic effect	Acute/short term	10 mg/kg/day
Workers	Dermal	Local effect	Long term	25 mg/cm ²
Workers	Dermal	Local effect	Acute/short term	25 mg/cm ²
General population	Inhalation	Systemic effect	Long term	14.38 mg/m ³
General population	Inhalation	Systemic effect	Acute/short term	8.7 mg/m ³
General population	Inhalation	Local effect	Long term	21.74 mg/m ³
General population	Inhalation	Local effect	Acute/short term	21.74 mg/m ³
General population	Dermal	Systemic effect	Long term	89.3 µg/kg/day
General population	Dermal	Systemic effect	Acute/short term	5 mg/kg/day

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General population	Dermal	Local effect	Long term	12.5 mg/cm ²
General population	Dermal	Local effect	Acute/short term	12.5 mg/cm ²
General population	Oral	Systemic effect	Long term	10 mg/kg/day
General population	Oral	Systemic effect	Acute/short term	5 mg/kg/day
PNEC				
Fresh water	Marine water	Intermittent releases		Sewage Treatment Plant (STP)
		Fresh water	Marine water	
0.76 µg/l	76 ng/l	4 µg/l	0.4 µg/l	10 mg/l
PNEC				
Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators
92 µg/kg	9.2 µg/kg	no effect	18 µg/kg	111.1 mg/kg food
3-p-Cumenyl-2-methylpropionaldehyde				CAS: 103-95-7
DNEL				
Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	1.23 mg/m ³
Workers	Dermal	Systemic effect	Long term	0.35 mg/kg/day
General population	Inhalation	Systemic effect	Long term	0.22 mg/m ³
General population	Dermal	Systemic effect	Long term	0.13 mg/kg/day
General population	Oral	Systemic effect	Long term	0.13 mg/kg/day
PNEC				
Fresh water	Marine water	Intermittent releases		Sewage Treatment Plant (STP)
		Fresh water	Marine water	
8.8 µg/l	0.88 µg/l	14 µg/l	not given	1 mg/l
PNEC				
Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators
1.02 mg/kg	0.102 mg/kg	no effect	0.199 mg/kg	2 mg/kg food
8.2. Exposure controls				
8.2.1. Appropriate engineering controls				
Use only in well-ventilated areas.				
Observe usual safety precautions for working with chemicals. The degree of effectiveness of personal protective equipment depends on temperature and ventilation levels.				
8.2.2. Individual protection measures, such as personal protective equipment				
Do not eat, drink or smoke. After work, wash thoroughly with warm water and soap and take a shower. Use protective cream. Do not soiled protective equipment to wash, do not use solvents.				
Eye/face protection				

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Wear safety goggles or face shield when manufacturing and handling the product (EN 166, EN 149+A1). It is not necessary for normal use, in case of possible contact with the eyes, use protective glasses or a face shield.

Skin protection - hand protection

Wear protective gloves when manufacturing and handling the product (EN 374-1, EN 374-2). In normal use it is not necessary to use protective gloves. Wear protective gloves in case of prolonged skin contact.

The selection of the glove material on consideration of the breakthrough time, permeability, degradation and next relevant factors; other chemicals that may come into contact, physical requirements (cut and puncture protection, dexterity, thermal protection), possible body reactions to the glove material and the glove supplier's instructions and specifications. In case of repeated use of gloves, clean and keep them in a well-ventilated place before taking off.

Skin protection - other

In normal use is not necessary. Wear protective working clothing and protective footwear when manufacturing and handling the product.

Respiratory protection

Not necessary in case of compliance concentration limits (if they were exceeded, use respiratory protection). In the event of an accident or a fire use self-contained breathing apparatus.

Thermal hazards

In normal use, it is not necessary to use protective equipment to be worn for materials that represent a thermal hazard.

8.2.3. Environmental exposure controls

Uncontrolled release of the mixture into environment is to be avoided. Keep the emission limits according to national legislation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Mixture

Physical state	Liquid.
Colour	Colourless.
Odour	Charakteristic.
Melting point/freezing point	Not determined.
Boiling point or initial boiling point and boiling range	82 °C.
Flammability	The mixture is classified as flammable liquid according to the value of the flash point.
Lower explosion limit	Not determined for the mixture, values are given for substances classified as flammable liquids.
Upper explosion limit	Not determined for the mixture, values are given for substances classified as flammable liquids.
Flash point	24 °C (42.47 wt.% aqueous isopropanol solution, literature).
Auto-ignition temperature	Not determined.

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Decomposition temperature	Not determined, the mixture does not contain self-reactive substances or organic peroxides.
pH	7 (20 °C).
Kinematic viscosity	Not determined, the mixture does not contain a substance classified as aspiration toxic, or the sum of the concentrations of substances classified as aspiration toxic is less than 10 wt. %.
Solubility	Fully miscible.
Partition coefficient n-octanol/water (log value)	Does not apply to mixture.
Vapour pressure	Not determined.
Density and/or relative density	0.9 g/cm ³ (20 °C).
Relative vapour density	Not determined.
Particle characteristics	Does not apply to liquid.
Propan-2-ol CAS: 67-63-0	
Physical state	Liquid.
Colour	Colourless.
Odour	Not determined.
Melting point/freezing point	-88.5 °C (literature).
Boiling point or initial boiling point and boiling range	82.3 °C (literature).
Flammability	Highly flammable liquid.
Lower explosion limit	2 vol. % (literature).
Upper explosion limit	13 vol. % (literature).
Flash point	11.7 °C (literature).
Auto-ignition temperature	399 - 455.6 °C (literature).
Decomposition temperature	Not determined, it is not a self-reactive substance or an organic peroxide or a substance that may decompose.
pH	Not determined.
Kinematic viscosity	Not determined, it is not a hydrocarbon or a chlorinated hydrocarbon.
Solubility	Miscible with water.
Partition coefficient n-octanol/water (log value)	log Pow = 0.05 (25 °C, literature).
Vapour pressure	Not determined.
Density and/or relative density	785.5 kg/m ³ (20 °C, literature).
Relative vapour density	Not determined.
Particle characteristics	Does not apply to liquid.
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 EC: 915-730-3	

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Physical state	Liquid.
Colour	Clear.
Odour	Fragrance like.
Melting point/freezing point	< -20 °C (OECD 102).
Boiling point or initial boiling point and boiling range	290.4 °C (OECD 103).
Flammability	The substance is not classified as flammable, pyrophoric or emit flammable gases under standard conditions.
Lower explosion limit	Not determined.
Upper explosion limit	Not determined.
Flash point	134 °C (EU method A.9).
Auto-ignition temperature	260 °C (EU method A.15).
Decomposition temperature	Not determined, it is not a self-reactive substance or an organic peroxide or a substance that may decompose.
pH	Not determined.
Kinematic viscosity	Not determined, it is not a hydrocarbon or a chlorinated hydrocarbon.
Solubility	2.68 mg/l (20 °C, pH = 6.59 - 6.69, OECD 105).
Partition coefficient n-octanol/water (log value)	log Pow = 5.6 (30 °C, OECD 117).
Vapour pressure	0.233 Pa (23 °C, OECD 104).
Density and/or relative density	D ₄ ²⁰ = 0.964 (OECD 109).
Relative vapour density	Not determined.
Particle characteristics	Does not apply to liquid.
(R)-p-Mentha-1,8-diene CAS: 5989-27-5	
Physical state	Liquid.
Colour	Colourless to yellowish.
Odour	Not determined.
Melting point/freezing point	199.5 K (OECD 102).
Boiling point or initial boiling point and boiling range	450.6 K (literature).
Flammability	The substance is classified as flammable liquid.
Lower explosion limit	Not determined.
Upper explosion limit	Not determined.
Flash point	51 °C (EU method A.9).
Auto-ignition temperature	245 °C (EU method A.15).
Decomposition temperature	Not determined, it is not a self-reactive substance or an organic peroxide or a substance that may decompose.

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pH	Not determined.
Kinematic viscosity	ca. 1 mm ² /s (calculated from dynamic viscosity = 0.8462 mPa.s, OECD 114)
Solubility	12.3 mg/l (298.15 K, pH = 7, OECD 105).
Partition coefficient n-octanol/water (log value)	log Pow = -4.38 (37 °C, pH = 7.2, OECD 117).
Vapour pressure	200 Pa (298 K, literature).
Density and/or relative density	D ₄ ²⁰ = 0.844 (OECD 109).
Relative vapour density	Not determined.
Particle characteristics	Does not apply to liquid.
Linalool CAS: 78-70-6	
Physical state	Liquid.
Colour	Colourless.
Odour	Flower.
Melting point/freezing point	< -74 °C (OECD 102).
Boiling point or initial boiling point and boiling range	196.3 °C (OECD 103).
Flammability	The substance is not classified as flammable, pyrophoric or emit flammable gases under standard conditions.
Lower explosion limit	Not determined.
Upper explosion limit	Not determined.
Flash point	77.2 °C (ISO 2719)
Auto-ignition temperature	260 °C (EU method A.15)
Decomposition temperature	Not determined, it is not a self-reactive substance or an organic peroxide or a substance that may decompose.
pH	Not determined.
Kinematic viscosity	Not determined, it is not a hydrocarbon or a chlorinated hydrocarbon.
Solubility	10.11 mmol/l (25 °C, pH = 7, OECD 105).
Partition coefficient n-octanol/water (log value)	2.84 (25 °C, pH = 7, OECD 117).
Vapour pressure	27 Pa (25 °C, OECD 104).
Density and/or relative density	0.86 g/cm ³ (20 °C, OECD 109) .
Relative vapour density	Not determined.
Particle characteristics	Does not apply to liquid.
Hexyl salicylate CAS: 6259-76-3	
Physical state	Liquid.
Colour	Colourless.
Odour	Not determined.

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CLEAMEN 101/201

Melting point/freezing point	< 269 K (OECD 102).
Boiling point or initial boiling point and boiling range	297.84 °C (OECD 103).
Flammability	The substance is not classified as flammable, pyrophoric or emit flammable gases under standard conditions.
Lower explosion limit	Not determined.
Upper explosion limit	Not determined.
Flash point	151 °C (EU method A.9).
Auto-ignition temperature	ca. 251 °C (EU method A.15).
Decomposition temperature	Not determined, it is not a self-reactive substance or an organic peroxide or a substance that may decompose.
pH	Not determined.
Kinematic viscosity	Not specified, it is not a hydrocarbon or a chlorinated hydrocarbon.
Solubility	2 mg/l (23 °C, pH = ca. 7, OECD 105).
Partition coefficient n-octanol/water (log value)	5.5 (30 °C, pH = ca. 7, OECD 117).
Vapour pressure	7.7*10 ⁻⁵ kPa (23 °C).
Density and/or relative density	1.038 g/cm ³ (20 °C).
Relative vapour density	Not determined.
(E)-2-Benzylidenooctanal CAS: 165184-98-5	
Physical state	Liquid.
Colour	Yellow.
Odour	Jasmine.
Melting point/freezing point	ca. 17.6 °C (OECD 102).
Boiling point or initial boiling point and boiling range	ca. 310.8 °C (OECD 103).
Flammability	The substance is not classified as flammable, pyrophoric or emit flammable gases under standard conditions.
Lower explosion limit	Not determined.
Upper explosion limit	Not determined.
Flash point	ca. 151 °C.
Auto-ignition temperature	ca. 235.5 °C (EU method A.15).
Decomposition temperature	Not determined, it is not a self-reactive substance or an organic peroxide or a substance that may decompose.
pH	Not determined.
Kinematic viscosity	Not determined, it is not a hydrocarbon or a chlorinated hydrocarbon.

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CLEAMEN 101/201

Solubility	1.57 - 1.68 mg/l (20 °C, pH = 4 – 7, OECD 105).
Partition coefficient n-octanol/water (log value)	ca. 5.3 (24 °C, OECD 117).
Vapour pressure	0.068 Pa (25 °C, OECD 104).
Density and/or relative density	ca. 0.95 g/cm ³ (20 °C, OECD 109).
Relative vapour density	Not determined.
Particle characteristics	Does not apply to liquid.
4-Methyl-3-decen-5-ol CAS: 81782-77-6	
Physical state	Liquid.
Colour	Colourless to light yellow.
Odour	Not determined.
Melting point/freezing point	< - 50 °C (OECD 102).
Boiling point or initial boiling point and boiling range	228 °C (OECD 103).
Flammability	The substance is not classified as flammable, pyrophoric or emit flammable gases under standard conditions.
Lower explosion limit	Not determined.
Upper explosion limit	Not determined.
Flash point	83 °C (EU method A.9)
Auto-ignition temperature	250 °C (EU method A.15)
Decomposition temperature	Not determined, it is not a self-reactive substance or an organic peroxide or a substance that may decompose.
pH	Not determined.
Kinematic viscosity	Not determined, it is not a hydrocarbon or a chlorinated hydrocarbon.
Solubility	63 mg/l (20 °C, pH = 7.5, EU method A.6).
Partition coefficient n-octanol/water (log value)	log Pow = 3.9 (30 °C, pH = 7, OECD 117).
Vapour pressure	1.1 Pa (20 °C, OECD 104).
Density and/or relative density	D ₄ ²⁰ = 0.845 (OECD 109).
Relative vapour density	Not determined.
Particle characteristics	Does not apply to liquid.
3-p-Cumenyl-2-methylpropionaldehyde CAS: 103-95-7	
Physical state	Liquid.
Colour	Colourless to light yellow.
Odour	Fragrant.
Melting point/freezing point	< - 50 °C (OECD 102).
Boiling point or initial boiling point and boiling range	234 °C (OECD 103).

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CLEAMEN 101/201

Flammability	The substance is not classified as flammable, pyrophoric or emit flammable gases under standard conditions.
Lower explosion limit	Not determined.
Upper explosion limit	Not determined.
Flash point	120 °C (EU method A.9)
Auto-ignition temperature	250 °C (EU method A.15)
Decomposition temperature	Not determined, it is not a self-reactive substance or an organic peroxide or a substance that may decompose.
pH	Not determined.
Kinematic viscosity	Not determined, it is not a hydrocarbon or a chlorinated hydrocarbon.
Solubility	66 mg/l (20 °C, pH = 5, EU method A.6). 75 mg/l (20 °C, pH = 6, EU method A.6).
Partition coefficient n-octanol/water (log value)	log Pow = 3.4 (35 °C, OECD 117).
Vapour pressure	45.9 mN/m (21 °C, concentration 0.008 g/l, Ring method).
Density and/or relative density	0.948 g/ml (20 °C, EU method A.3).
Relative vapour density	Not determined.
Particle characteristics	Does not apply to liquid.

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Mixture

Explosives

Data for the mixture are not available.

The mixture does not contain substances classified as explosives or oxidising, or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

Flammable gases

It is not gas.

Aerosols

It is not aerosol.

Oxidising gases

It is not gas.

Gases under pressure

It is not gas.

Flammable liquids

The mixture is classified as a flammable liquid category 3 according to the value of the flash point of an aqueous solution of iso-propanol.

Flammable solids

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CLEAMEN 101/201

It is not solid.

Self-reactive substances and mixtures

Data for the mixture are not available.

The mixture does not contain substances classified as self-reactive substances or explosives or organic peroxides or oxidising, or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

Pyrophoric liquids

Data for the mixture are not available.

The mixture does not contain substances classified as pyrophoric liquids or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

Pyrophoric solids

It is not solid.

Self-heating substances and mixtures

Data for the mixture are not available.

The mixture does not contain substances classified as self-heating or pyrophoric substances or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

Substances and mixtures, which emit flammable gases in contact with water

Data for the mixture are not available.

The mixture does not contain substances classified as substances, which emit flammable gases in contact with water or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

Oxidising liquids

Data for the mixture are not available.

The mixture does not contain substances classified as oxidising liquids or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

Oxidizing solids

It is not solid.

Organic peroxides

Data for the mixture are not available.

The mixture does not contain substances classified as organic peroxides or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

Corrosive to metals

Data for the mixture are not available.

The mixture does not contain substances classified as corrosive to metal, or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

Desensitised explosives

Data for the mixture are not available.

The mixture does not contain substances classified as explosives or desensitised explosives, or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

Propan-2-ol

CAS: 67-63-0

Explosives

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CLEAMEN 101/201

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive properties.

Pure propan-2-ol is autoxidated by air and light to form an explosive cyclic triacetone triperoxide, which settles to the bottom of the vessel as a white sediment. In the event of such a finding, the container must be handled immediately and pyrotechnics called.

Flammable gases

It is not gas.

Aerosols

It is not aerosol.

Oxidising gases

It is not gas.

Gases under pressure

It is not gas.

Flammable liquids

The substance is classified as flammable liquid category 2 according to the value of the flash point and boiling point.

Flammable solids

It is not solid.

Self-reactive substances and mixtures

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive or self-reactive properties.

Pyrophoric liquids

Data for the substance are not available.

The substance is stable in air, there is no spontaneous ignition.

Pyrophoric solids

It is not solid.

Self-heating substances and mixtures

Data for the substance are not available.

The substance is not classified as self-heating.

Substances and mixtures, which emit flammable gases in contact with water

Data for the substance are not available.

The chemical structure of the substance does not contain metals or metalloids.

The substance is miscible with water and forms a stable mixture with it.

Oxidising liquids

Data for the substance are not available.

It is an organic substance that does not contain oxygen, fluorine or chlorine, or these elements are chemically bounded only to carbon or hydrogen.

Oxidizing solids

It is not solid.

Organic peroxides

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CLEAMEN 101/201

Data for the substance are not available.

The substance does not contain a bivalent group -O-O- with at least one organic radical.

Corrosive to metals

Data for the substance are not available.

The substance is not classified as corrosive to metal.

Desensitised explosives

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive properties.

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 EC: 915-730-3 and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one

Explosives

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive properties.

Flammable gases

It is not gas.

Aerosols

It is not aerosol.

Oxidising gases

It is not gas.

Gases under pressure

It is not gas.

Flammable liquids

The substance is not classified as flammable liquid according to the value of the flash point and boiling point.

Flammable solids

It is not solid.

Self-reactive substances and mixtures

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive or self-reactive properties.

Pyrophoric liquids

Data for the substance are not available.

The substance is stable in air, there is no spontaneous ignition.

Pyrophoric solids

It is not solid.

Self-heating substances and mixtures

Data for the substance are not available.

The substance is not classified as self-heating.

Substances and mixtures, which emit flammable gases in contact with water

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CLEAMEN 101/201

Data for the substance are not available.

The chemical structure of the substance does not contain metals or metalloids.

The substance is miscible with water and forms a stable mixture with it.

Oxidising liquids

Data for the substance are not available.

It is an organic substance that does not contain oxygen, fluorine or chlorine, or these elements are chemically bounded only to carbon or hydrogen.

Oxidizing solids

It is not solid.

Organic peroxides

Data for the substance are not available.

The substance does not contain a bivalent group -O-O- with at least one organic radical.

Corrosive to metals

Data for the substance are not available.

The substance is not classified as corrosive to metal.

Desensitised explosives

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive properties.

(R)-p-Mentha-1,8-diene

CAS: 5989-27-5

Explosives

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive properties.

Flammable gases

It is not gas.

Aerosols

It is not aerosol.

Oxidising gases

It is not gas.

Gases under pressure

It is not gas.

Flammable liquids

The substance is classified as flammable liquid category 3 according to the value of the flash point.

Flammable solids

It is not solid.

Self-reactive substances and mixtures

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive or self-reactive properties.

Pyrophoric liquids

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CLEAMEN 101/201

Data for the substance are not available.

The substance is stable in air, there is no spontaneous ignition.

Pyrophoric solids

It is not solid.

Self-heating substances and mixtures

Data for the substance are not available.

The substance is not classified as self-heating.

Substances and mixtures, which emit flammable gases in contact with water

Data for the substance are not available.

The chemical structure of the substance does not contain metals or metalloids.

The substance is miscible with water and forms a stable mixture with it.

Oxidising liquids

Data for the substance are not available.

It is an organic substance that does not contain oxygen, fluorine or chlorine, or these elements are chemically bounded only to carbon or hydrogen.

Oxidizing solids

It is not solid.

Organic peroxides

Data for the substance are not available.

The substance does not contain a bivalent group -O-O- with at least one organic radical.

Corrosive to metals

Data for the substance are not available.

The substance is not classified as corrosive to metal.

Desensitised explosives

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive properties.

Linalool

CAS: 78-70-6

Explosives

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive properties.

Flammable gases

It is not gas.

Aerosols

It is not aerosol.

Oxidising gases

It is not gas.

Gases under pressure

It is not gas.

Flammable liquids

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CLEAMEN 101/201

The substance is not classified as flammable liquid according to the value of the flash point and boiling point.

Flammable solids

It is not solid.

Self-reactive substances and mixtures

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive or self-reactive properties.

Pyrophoric liquids

Data for the substance are not available.

The substance is stable in air, there is no spontaneous ignition.

Pyrophoric solids

It is not solid.

Self-heating substances and mixtures

Data for the substance are not available.

The substance is not classified as self-heating.

Substances and mixtures, which emit flammable gases in contact with water

Data for the substance are not available.

The chemical structure of the substance does not contain metals or metalloids.

The substance is miscible with water and forms a stable mixture with it.

Oxidising liquids

Data for the substance are not available.

It is an organic substance that does not contain oxygen, fluorine or chlorine, or these elements are chemically bounded only to carbon or hydrogen.

Oxidizing solids

It is not solid.

Organic peroxides

Data for the substance are not available.

The substance does not contain a bivalent group -O-O- with at least one organic radical.

Corrosive to metals

Data for the substance are not available.

The substance is not classified as corrosive to metal.

Desensitised explosives

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive properties.

Hexyl salicylate

CAS: 6259-76-3

Explosives

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive properties.

Flammable gases

It is not gas.

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CLEAMEN 101/201

Aerosols

It is not aerosol.

Oxidising gases

It is not gas.

Gases under pressure

It is not gas.

Flammable liquids

The substance is not classified as flammable liquid according to the value of the flash point and boiling point.

Flammable solids

It is not solid.

Self-reactive substances and mixtures

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive or self-reactive properties.

Pyrophoric liquids

Data for the substance are not available.

The substance is stable in air, there is no spontaneous ignition.

Pyrophoric solids

It is not solid.

Self-heating substances and mixtures

Data for the substance are not available.

The substance is not classified as self-heating.

Substances and mixtures, which emit flammable gases in contact with water

Data for the substance are not available.

The chemical structure of the substance does not contain metals or metalloids.

The substance is miscible in water and forms a stable mixture with it.

Oxidising liquids

Data for the substance are not available.

It is an organic substance that does not contain oxygen, fluorine or chlorine, or these elements are chemically bounded only to carbon or hydrogen.

Oxidizing solids

It is not solid.

Organic peroxides

Data for the substance are not available.

The substance does not contain a bivalent group -O-O- with at least one organic radical.

Corrosive to metals

Data for the substance are not available.

The substance is not classified as corrosive to metal.

Desensitised explosives

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CLEAMEN 101/201

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive properties.

(E)-2-Benzylidenooctanal

CAS: 165184-98-5

Explosives

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive properties.

Flammable gases

It is not gas.

Aerosols

It is not aerosol.

Oxidising gases

It is not gas.

Gases under pressure

It is not gas.

Flammable liquids

The substance is not classified as flammable liquid according to the value of the flash point and boiling point.

Flammable solids

It is not solid.

Self-reactive substances and mixtures

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive or self-reactive properties.

Pyrophoric liquids

Data for the substance are not available.

The substance is stable in air, there is no spontaneous ignition.

Pyrophoric solids

It is not solid.

Self-heating substances and mixtures

Data for the substance are not available.

The substance is not classified as self-heating.

Substances and mixtures, which emit flammable gases in contact with water

Data for the substance are not available.

The chemical structure of the substance does not contain metals or metalloids.

The substance is miscible with water and forms a stable mixture with it.

Oxidising liquids

Data for the substance are not available.

It is an organic substance that does not contain oxygen, fluorine or chlorine, or these elements are chemically bounded only to carbon or hydrogen.

Oxidizing solids

It is not solid.

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CLEAMEN 101/201

Organic peroxides

Data for the substance are not available.

The substance does not contain a bivalent group -O-O- with at least one organic radical.

Corrosive to metals

Data for the substance are not available.

The substance is not classified as corrosive to metal.

Desensitised explosives

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive properties.

4-Methyl-3-decen-5-ol

CAS: 81782-77-6

Explosives

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive properties.

Flammable gases

It is not gas.

Aerosols

It is not aerosol.

Oxidising gases

It is not gas.

Gases under pressure

It is not gas.

Flammable liquids

The substance is not classified as flammable liquid according to the value of the flash point and boiling point.

Flammable solids

It is not solid.

Self-reactive substances and mixtures

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive or self-reactive properties.

Pyrophoric liquids

Data for the substance are not available.

The substance is stable in air, there is no spontaneous ignition.

Pyrophoric solids

It is not solid.

Self-heating substances and mixtures

Data for the substance are not available.

The substance is not classified as self-heating.

Substances and mixtures, which emit flammable gases in contact with water

SAFETY DATA SHEET

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CLEAMEN 101/201

Data for the substance are not available.

The chemical structure of the substance does not contain metals or metalloids.

The substance is miscible with water and forms a stable mixture with it.

Oxidising liquids

Data for the substance are not available.

It is an organic substance that does not contain oxygen, fluorine or chlorine, or these elements are chemically bounded only to carbon or hydrogen.

Oxidizing solids

It is not solid.

Organic peroxides

Data for the substance are not available.

The substance does not contain a bivalent group -O-O- with at least one organic radical.

Corrosive to metals

Data for the substance are not available.

The substance is not classified as corrosive to metal.

Desensitised explosives

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive properties.

3-p-Cumenyl-2-methylpropionaldehyde

CAS: 103-95-7

Explosives

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive properties.

Flammable gases

It is not gas.

Aerosols

It is not aerosol.

Oxidising gases

It is not gas.

Gases under pressure

It is not gas.

Flammable liquids

The substance is not classified as flammable liquid according to the value of the flash point and boiling point.

Flammable solids

It is not solid.

Self-reactive substances and mixtures

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive or self-reactive properties.

Pyrophoric liquids

SAFETY DATA SHEET

according to Regulation No. 1907/2006 of the European Parliament and of the Council, as subsequently amended

CLEAMEN 101/201

Data for the substance are not available.

The substance is stable in air, there is no spontaneous ignition.

Pyrophoric solids

It is not solid.

Self-heating substances and mixtures

Data for the substance are not available.

The substance is not classified as self-heating.

Substances and mixtures, which emit flammable gases in contact with water

Data for the substance are not available.

The chemical structure of the substance does not contain metals or metalloids.

The substance is miscible with water and forms a stable mixture with it.

Oxidising liquids

Data for the substance are not available.

It is an organic substance that does not contain oxygen, fluorine or chlorine, or these elements are chemically bounded only to carbon or hydrogen.

Oxidizing solids

It is not solid.

Organic peroxides

Data for the substance are not available.

The substance does not contain a bivalent group -O-O- with at least one organic radical.

Corrosive to metals

Data for the substance are not available.

The substance is not classified as corrosive to metal.

Desensitised explosives

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive properties.

9.2.2. Other safety characteristics

<i>Mechanical sensitivity</i>	Not determined, it is not an explosive substance.
<i>Self-accelerating polymerisation temperature</i>	Not determined, it is not a polymerising substance.
<i>Formation of explosible dust/air mixtures</i>	Not determined, it is not a dust.
<i>Acid/alkaline reserve</i>	Not determined, pH is in the range 4 - 10.
<i>Evaporation rate</i>	Not determined.
<i>Miscibility</i>	Not determined.
<i>Conductivity</i>	Not determined.
<i>Corrosiveness</i>	Not determined.
<i>Gas group</i>	Not determined, it is not gas.
<i>Redox potential</i>	Not determined.
<i>Radical formation potential</i>	Not determined.
<i>Photocatalytic properties</i>	Not determined.

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SECTION 10: Stability and reactivity

10.1. Reactivity

The mixture is stable under normal conditions of use. There aren't any hazardous reaction.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions aren't known under normal conditions of use.

10.4. Conditions to avoid

Protect from temperatures below 0 °C.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

They do not form under normal use. Burning releases carbon oxides, nitrogen oxides, ammonia and products of incomplete combustion.

SECTION 11: Toxicological information

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

Mixture

Acute toxicity

The mixture is not classified as toxic for all routes of exposure.

Oral

Data for the mixture are not available.

The mixture does not contain substances classified as an acute toxicity by oral route of exposure or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

Dermal

Data for the mixture are not available.

The mixture does not contain substances classified as an acute toxicity by dermal route of exposure or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

Inhalation

Data for the mixture are not available.

The mixture does not contain substances classified as an acute toxicity by inhalation route of exposure or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

Skin corrosion/irritation

Data for the mixture are not available.

The mixture is not classified as skin irritant based on the general/specific concentration limits of substance(s).

Serious eye damage/irritation

Data for the mixture are not available.

The mixture is classified as eye irritant based on the general/specific concentration limits of substance(s).

Respiratory or skin sensitisation

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Data for the mixture are not available.

The mixture is not classified as a skin sensitizing according to the general/specific concentration limits of substance(s).

EUH208 - Contains (Z)-3,4,5,6,6-Pentamethylhept-3-en-2-one, 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, (R)-p-Mentha-1,8-diene, Linalool, Hexyl salicylate, (E)-2-Benzylideneoctanal, 3-p-Cumenyl-2-methylpropionaldehyde. May produce an allergic reaction.

Germ cell mutagenicity

Data for the mixture are not available.

The mixture does not contain substances classified as mutagenicity or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

Carcinogenicity

Data for the mixture are not available.

The mixture does not contain substances classified as carcinogenicity or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

Reproductive toxicity

Data for the mixture are not available.

The mixture does not contain substances classified as toxic for reproduction or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

STOT – single exposure

Data for the mixture are not available.

The mixture is classified as toxic for specific target organs in a single exposure in category 3 according to the recommended concentration limits of substance(s).

STOT – repeated exposure

Data for the mixture are not available.

The mixture does not contain substances classified as toxic for specific target organs in a repeated exposure or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

Aspiration hazard

Data for the mixture are not available.

The mixture is not classified as aspiration hazard according to the general/specific concentration limits of substance(s).

Other information

See section 2 and 4.

Propan-2-ol

CAS: 67-63-0

Acute toxicity

Oral

Based on available data, the classification criteria are not met.
LD₅₀ = 5 840 mg/kg (rat, OECD 401).

Dermal

Based on available data, the classification criteria are not met.
LD₅₀ = 16.4 ml/kg (12 792 mg/kg at a density of 0.78 g/cm³, rabbit, OECD 402).

Inhalation

Based on available data, the classification criteria are not met.
LC₅₀ > 10 000 ppm (vapour, 6 h, OECD 403).

Skin corrosion/irritation

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Based on available data, the classification criteria are not met.
Mean erythema score = 0 and oedema = 0 (rabbit, OECD 404).

Serious eye damage/irritation

The substance is classified as eye irritant.
Total mean irritation score = 1.89 (rabbit, 72 h, OECD 405).

Respiratory or skin sensitisation

Based on available data, the classification criteria are not met.
Not skin sensitising (guinea pig, OECD 406).

Germ cell mutagenicity

Based on available data, the classification criteria are not met.
Negative (OECD 471, OECD 476).

Carcinogenicity

Based on available data, the classification criteria are not met.
NOAEL = 5 000 ppm (testicular tumors, rat, male, vapour, OECD 451).

Reproductive toxicity

Based on available data, the classification criteria are not met.
NOAEL = 853 mg/kg/day (rat, oral, generation P0, OECD 415).

STOT – single exposure

The substance may cause drowsiness or dizziness.

STOT – repeated exposure

Based on available data, the classification criteria are not met.
NOEC = 500 ppm (specific toxic effect, rat, vapour, 104 weeks, OECD 451).
NOAEC = 5 000 ppm (specific exposure-related adverse reaction, rat, vapour, 104 weeks, OECD 451).
NOEC = 5 000 ppm (effects of oncogenicity, rat, vapour, 104 weeks, OECD 451).

Aspiration hazard

The substance is not a hydrocarbon or a chlorinated hydrocarbon with a kinematic viscosity of 20.5 mm²/s or less at 40 °C.

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 EC: 915-730-3
and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one

Acute toxicity

Oral Based on available data, the classification criteria are not met.
LD₅₀ > 5 000 mg/kg (rat).

Dermal Based on available data, the classification criteria are not met.
LD₅₀ > 5 000 mg/kg (rat).

Inhalation Data for the substance are not available.

Skin corrosion/irritation

Classified as irritating to the skin - mean tissue viability is 55 % (OECD 439).

Serious eye damage/irritation

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

No effect on the eye (Q)SAR method.

Respiratory or skin sensitisation

Skin sensitising category 1B (mouse, OECD 429).

Germ cell mutagenicity

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

Negative (OECD 471, OECD 473, OECD 476).

Carcinogenicity

Data for the substance are not available.

Reproductive toxicity

Data for the substance are not available.

STOT – single exposure

Data for the substance are not available.

STOT – repeated exposure

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

NOAEL = 120 mg/kg/day (hematology, clinical biochemistry, ratio of organ weight to body weight, histopathology: neoplastic, oral, rat, 90 d, OECD 408).

Aspiration hazard

The substance is not a hydrocarbon or a chlorinated hydrocarbon with a kinematic viscosity of 20.5 mm²/s or less at 40 °C.

(R)-p-Mentha-1,8-diene

CAS: 5989-27-5

Acute toxicity

Oral Based on available data, the classification criteria are not met
LD₅₀ > 2 000 mg/kg (rat, female, OECD 423).

Dermal Based on available data, the classification criteria are not met.
LD₅₀ > 5 000 mg/kg (rabbit, OECD 402).

Inhalation Data for the substance are not available.

Skin corrosion/irritation

The substance is classified as skin irritant.

Mean erythema score = 2 (not fully reversible after 7 days) and oedema = 1.56 (not fully reversible after 7 days) (rabbit, OECD 404).

Serious eye damage/irritation

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

Mean score of corneal opacity = 0, iritis = 0, conjunctival redness = 0.3, 1, 1.3 (fully reversible after 2 - 4 days), conjunctival oedema = 1, 0.3, 1 (fully reversible after 2 - 7 days) (rabbit, 72 h, OECD 405).

Respiratory or skin sensitisation

The substance is classified as skin sensitising in category 1B (mouse, OECD 429).

Germ cell mutagenicity

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

Negative (OECD 471, OECD 473, OECD 476).

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Carcinogenicity

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

NOAEL = 75 - 150 mg/kg/day (rat, male, oral, OECD 451).

NOAEL = 300 - 600 mg/kg/day (rat, female, oral, OECD 451).

Reproductive toxicity

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

NOAEL = 500 mg/kg/day (clinical signs, mortality, body weight and weight gain, rat, oral, generation P0, OECD 415).

STOT – single exposure

Data for the substance are not available.

STOT – repeated exposure

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

NOAEL = 1 650 mg/kg/day (mouse, oral, 28 days, OECD 407).

LOAEL = 3 300 mg/kg/day (mouse, oral, 28 days, OECD 407).

Aspiration hazard

The substance is classified as aspiration hazard, it is a hydrocarbon with a kinematic viscosity of 20.5 mm²/s or less at 40 °C.

Linalool

CAS: 78-70-6

Acute toxicity

Oral The substance is classified in category 4 according to harmonized classification.
LD₅₀ = 2 790 mg/kg (rat, OECD 401).

Dermal Based on available data, the classification criteria are not met.
LD₅₀ = 5 610 mg/kg (rat, OECD 402).

Inhalation Data for the substance are not available.

Skin corrosion/irritation

The substance is classified as skin irritant according to harmonized classification.

Mean erythema score = 1.9; 2; 1.7 (not fully reversible after 7 days) and oedema = 1.4; 1.4; 0.4 (not fully reversible after 7 days) (rabbit, OECD 404).

Serious eye damage/irritation

The substance is classified as eye irritant.

Mean score of corneal opacity = 1.0, iritis = 0.41 (fully reversible after 4 days), conjunctival redness = 2.29 (fully reversible after 7 days), conjunctival oedema = 0.18 (fully reversible after 7 days) (rabbit, 72 hrs., OECD 405).

Respiratory or skin sensitisation

The substance is classified as skin sensitising in category 1B (mouse, OECD 429).

Germ cell mutagenicity

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

Negative (OECD 471, OECD 473, OECD 476).

Carcinogenicity

Data for the substance are not available.

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Reproductive toxicity

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

NOAEL = 365 mg/kg/day (decreased food consumption, body weight, oral, rat, female, generation P0, OECD 421).

STOT – single exposure

Data for the substance are not available.

STOT – repeated exposure

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

NOAEL = 117 mg/kg/day (stomach and kidneys, oral, rat, 28 d, OECD 407).

NOAEL = 250 mg/kg/day (dermal, rat, 90 d, OECD 411).

Aspiration hazard

The substance is not a hydrocarbon or a chlorinated hydrocarbon with a kinematic viscosity of 20.5 mm²/s or less at 40 °C.

Hexyl salicylate

CAS: 6259-76-3

Acute toxicity

Oral Based on available data, the classification criteria are not met.

LD₅₀ > 5 000 mg/kg (rat).

Dermal Based on available data, the classification criteria are not met.

LD₅₀ > 5 000 mg/kg (rabbit).

Inhalation Data for the substance are not available.

Skin corrosion/irritation

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

Mean erythema score = 2 for pure substance (not fully reversible after 168 hours) and 2 for 50% solution DEP (fully reversible after 168 hours) and oedema = 2.16 for pure substance (not fully reversible after 168 hours) and 1.4 for 50% solution DEP (fully reversible after 168 hours) (rabbit, 72 hrs., OECD 404).

Serious eye damage/irritation

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

Mean score of corneal opacity = 0.04 (fully reversible after 48 hours), iritis = 0, conjunctival redness = 0.4 (fully reversible after 72 hours), conjunctival oedema = 0.3 (fully reversible after 72 hours) (rabbit, 72 h, OECD 405).

Respiratory or skin sensitisation

The substance is classified as skin sensitising in category 1B (mouse, OECD 429).

Germ cell mutagenicity

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

Negative (OECD 471).

Carcinogenicity

Data for the substance are not available.

Reproductive toxicity

Data for the substance are not available.

STOT – single exposure

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Data for the substance are not available.

STOT – repeated exposure

Data for the substance are not available.

Aspiration hazard

The substance is not a hydrocarbon or a chlorinated hydrocarbon with a kinematic viscosity of 20.5 mm²/s or less at 40 °C.

(E)-2-Benzylidenoctanal

CAS: 165184-98-5

Acute toxicity

Oral

Based on available data, the classification criteria are not met.
LD₅₀ = ca. 3 100 mg/kg (rat, male, OECD 401).

Dermal

Based on available data, the classification criteria are not met.
LD₅₀ > 3 000 mg/kg (rabbit, female, OECD 402).

Inhalation

Based on available data, the classification criteria are not met.
LC₅₀ > 5 mg/l (vapour, rat, 4 hrs., no death is observed, OECD 403).

Skin corrosion/irritation

Based on available data, the classification criteria are not met.
Mean erythema score = 2 and oedema = 1.56 (fully reversible after 11 days, rabbit, 72 hrs., EU method B.4).

Serious eye damage/irritation

Based on available data, the classification criteria are not met.
Mean score of corneal opacity = 0, iritis = 0, conjunctival redness = 0.33 (fully reversible after 2 days), conjunctival oedema = 0 (rabbit, 72 hrs., EU method B.5).

Respiratory or skin sensitisation

The substance is classified as skin sensitising in category 1 (mouse, OECD 429).

Germ cell mutagenicity

Based on available data, the classification criteria are not met.
Negative (OECD 471, OECD 476).

Carcinogenicity

Data for the substance are not available.

Reproductive toxicity

Based on available data, the classification criteria are not met.
NOAEL ≥ 100 mg/kg/day (rat, oral, generation P0, OECD 421).
NOAEL ≥ 100 mg/kg/day (rat, oral, F1 generation, OECD 421).

STOT – single exposure

Data for the substance are not available.

STOT – repeated exposure

Based on available data, the classification criteria are not met.
NOAEL ≥ 100 mg/kg/day (rat, oral, OECD 421).
NOAEL = 125 mg/kg/day (systemic effect, rat, female, dermal, 90 d., OECD 411).

Aspiration hazard

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The substance is not a hydrocarbon or a chlorinated hydrocarbon with a kinematic viscosity of 20.5 mm²/s or less at 40 °C.

4-Methyl-3-decen-5-ol

CAS: 81782-77-6

Acute toxicity

Oral Based on available data, the classification criteria are not met.
LD₅₀ > 8000 mg/kg (mouse, OECD 401).

Dermal Data for the substance are not available.

Inhalation Data for the substance are not available.

Skin corrosion/irritation

The substance is classified as skin irritant.

Mean erythema score = 1.33 and oedema = 0.567 (fully reversible after 21 days, rabbit, 72 hrs., OECD 404).

Serious eye damage/irritation

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

Mean score of corneal opacity = 0.33, iritis = 0, conjunctival redness = 2.34, conjunctival oedema = 0.66 (fully reversible after 7 days, rabbit, 72 hrs., OECD 405).

Respiratory or skin sensitisation

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

The substance is not classified as skin sensitising (guinea pig, open epicutaneous test).

Germ cell mutagenicity

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

Negative (OECD 471).

Carcinogenicity

Data for the substance are not available.

Reproductive toxicity

Data for the substance are not available.

STOT – single exposure

Data for the substance are not available.

STOT – repeated exposure

Data for the substance are not available.

Aspiration hazard

The substance is not a hydrocarbon or a chlorinated hydrocarbon with a kinematic viscosity of 20.5 mm²/s or less at 40 °C.

3-p-Cumenyl-2-methylpropionaldehyde

CAS: 103-95-7

Acute toxicity

Oral Based on available data, the classification criteria are not met.
LD₅₀ = 3 810 mg/kg (rat).

Dermal Based on available data, the classification criteria are not met.
LD₅₀ > 5 000 mg/kg (rat).

Inhalation Data for the substance are not available.

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Skin corrosion/irritation

The substance is classified as skin irritant.

Mean erythema score = 2.67; 2; 2 (not fully reversible after 7 days) and oedema = 3; 3; 2.67 (fully reversible after 7 days) (rabbit, 72 hrs.).

Serious eye damage/irritation

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

Mean score of corneal opacity = 0; 0.67; 0.33; 0; 0.67; 0 (fully reversible after 4 days), iritis = 0.33; 0.33; 0; 0.33; 0.33; 0.33 (fully reversible after 72 hours), conjunctival redness = 1.33; 1; 1.33; 0.33; 0.67; 1 (fully reversible after 7 days), conjunctival oedema = 0; 0.33; 0; 0; 0.67; 0 (fully reversible after 4 days) (rabbit, 72 hrs.).

Respiratory or skin sensitisation

The substance is classified as skin sensitising in category 1B (mouse, OECD 429).

Germ cell mutagenicity

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

Negative (OECD 471).

Carcinogenicity

Data for the substance are not available.

Reproductive toxicity

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

NOAEL = 75 mg/kg/day (mortality, rat, male, oral, generation P0, OECD 415).

NOAEL = 25 mg/kg/day (mortality, rat, female, oral, generation P0, OECD 415).

NOAEL = 75 mg/kg/day (mortality, rat, male, oral, generation F1, OECD 415).

NOAEL = 25 mg/kg/day (mortality, rat, female, oral, generation F1, OECD 415).

STOT – single exposure

Data for the substance are not available.

STOT – repeated exposure

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

NOAEL = 300 mg/kg/day (mortality, rabbit, oral).

Aspiration hazard

The substance is not a hydrocarbon or a chlorinated hydrocarbon with a kinematic viscosity of 20.5 mm²/s or less at 40 °C.

11.2. Information on other hazards

Mixture does not contain substance(s) meeting the criteria for persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) in accordance with Annex XIII of REACH regulation. The mixture and its substances are not mentioned on the Candidate list for possible inclusion in Annex XIV of REACH at the date of the revision of the safety data sheet and given in the list (established in accordance with Article 59(1) for having endocrine disrupting properties of REACH regulation.

Mixture does not contain the substance(s) 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. There is no other relevant information on adverse health effects that is not required according to the classification criteria set out in CLP Regulation.

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12.1. Toxicity

Mixture

Data for the mixture are not available.

Acute aquatic toxicity

The mixture is not classified as acute aquatic toxicity based on calculation according to the summation method.

category 1

$\Sigma < 1.5$

Chronic aquatic toxicity

The mixture is classified as Aquatic Chronic 3; H412 based on calculation according to the summation method.

category	1	2	3	4
Σ	< 1	< 10	< 100	not relevant

Propan-2-ol

CAS: 67-63-0

The substance is not classified as hazardous for the aquatic environment.

Fish

LC₅₀, 96 hrs., Pimephales promelas: 9 640 - 10 000 mg/l (mortality, OECD 203)

Crustaceans

EC₅₀, 24 hrs., Daphnia Magna: > 10 000 mg/l (mobility, OECD 202)

logNOEC, 16 d., Daphnia Magna: 3.37 (growth, NOEC = 2 344 µmol/l = 140.9 mg/l)

Algae

Threshold toxicity, 7 d., Scenedesmus quadricauda: 1.800 mg/l

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 EC: 915-730-3 and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one

The substance is classified as Aquatic Chronic 1; H410 (M=1).

Fish

LC₅₀, 96 hrs., Lepomis macrochirus: 1.3 mg/l (mortality).

NOEC, 30 d., Danio rerio: 0.16 mg/l (length and weight).

NOEC, 30 d., Danio rerio: 0.3 mg/l (survival after hatching).

NOEC, 30 d., Danio rerio: 0.54 mg/l (egg survival, hatching time).

Crustaceans

EC₅₀, 48 hrs., Daphnia Magna: 1.38 mg/l (mobility).

NOEC, 21 d., Daphnia Magna: 0.028 mg/l (reproduction).

NOEC, 21 d., Daphnia Magna: 0.096 mg/l (length).

NOEC, 21 d., Daphnia Magna: 0.448 mg/l (mortality).

Algae

EC₅₀, 72 hrs., Desmodesmus subspicatus: > 2.6 mg/l (growth rate).

EC₅₀, 72 hrs., Desmodesmus subspicatus: > 2.6 mg/l (biomass).

NOEC, 72 hrs., Desmodesmus subspicatus: ≥ 2.6 mg/l (growth rate).

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(R)-p-Mentha-1,8-diene	CAS: 5989-27-5
The substance is classified as Aquatic Acute 1; H400 (M = 1) and Aquatic Chronic 3; H412.	
Fish	
LC ₅₀ , 96 hrs., Pimephales promelas: 720 µg/l (mortality, OECD 203). EC ₅₀ , 96 hrs., Pimephales promelas: 688 µg/l (mobility, OECD 203). NOEC, 8 d., Pimephales promelas: 0.37 mg/l (hatching rate, OECD 212). NOEC, 8 d., Pimephales promelas: 0.19 mg/l (abnormal appearance and behaviour, OECD 212). NOEC, 8 d., Pimephales promelas: 0.059 mg/l (length, OECD 212).	
Crustaceans	
EC ₅₀ , 48 hrs., Daphnia Magna: 0.307 mg/l (mobility, OECD 202). NOEC, 21 d., Daphnia Magna: 80 µg/l (number of live offspring, OECD 211).	
Algae	
EC ₅₀ , 72 hrs., Desmodesmus subspicatus: 0.32 mg/l (growth rate, OECD 201). EC ₁₀ , 72 hrs., Desmodesmus subspicatus: 0.174 mg/l (growth rate, OECD 201).	
Linalool	CAS: 78-70-6
The substance is not classified as hazardous for the aquatic environment.	
Fish	
LC ₅₀ , 96 hrs., Oncorhynchus mykiss: 27.8 mg/l (mortality, OECD 203). NOEC, 96 hrs., Oncorhynchus mykiss: < 3.5 mg/l (mobility, behaviour, OECD 203).	
Crustaceans	
EC ₅₀ , 48 hrs., Daphnia Magna: 59 mg/l (mobility, OECD 202). NOEC, 48 hrs., Daphnia Magna: 25 mg/l (reproduction, OECD 202).	
Algae	
EC ₅₀ , 72 hrs., Desmodesmus subspicatus: 156.7 mg/l (growth rate, DIN 38412 L 9). EC ₅₀ , 72 hrs., Desmodesmus subspicatus: 88.3 mg/l (biomass, DIN 38412 L 9). EC ₁₀ , 72 hrs., Desmodesmus subspicatus: 54.3 mg/l (growth rate, DIN 38412 L 9). EC ₁₀ , 72 hrs., Desmodesmus subspicatus: 38.4 mg/l (biomass, DIN 38412 L 9).	
Hexyl salicylate	CAS: 6259-76-3
The substance is classified as Aquatic Chronic 1; H410 (M = 1).	
Fish	
LC ₀ , 96 hrs., Danio rerio: 0.95 mg/l (mortality, EU method C.1). LC ₅₀ , 96 hrs., Danio rerio: 1.34 mg/l (mortality, EU method C.1). LC ₁₀₀ , 96 hrs., Danio rerio: 1.9 mg/l (mortality, EU method C.1).	
Crustaceans	
EC ₅₀ , 48 hrs., Daphnia Magna: 0.357 mg/l (mobility, EU method C.2). NOEC, 48 hrs., Daphnia Magna: 0.14 mg/l (mobility, EU method C.2).	
Algae	

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EC₅₀, 72 hrs., Scenedesmus subspicatus: 0.61 mg/l (growth rate, OECD 201).
EC₅₀, 72 hrs., Scenedesmus subspicatus: 0.28 mg/l (biomass, OECD 201).
NOEC, 72 hrs., Scenedesmus subspicatus: 0.15 mg/l (growth rate, OECD 201).
NOEC, 72 hrs., Scenedesmus subspicatus: 0.15 mg/l (biomass, OECD 201).

(E)-2-Benzylidenoctanal

CAS: 165184-98-5

The substance is classified as Aquatic Acute 1; H400 (M = 1) and Aquatic Chronic 2; H411.

Fish

LC₅₀, 96 hrs., Pimephales promelas: ca. 1.7 mg/l (mortality, OECD 203).
NOEC, 96 hrs., Pimephales promelas: ca. 0.93 mg/l (mortality, OECD 203).

Crustaceans

EC₅₀, 48 hrs., Daphnia Magna: 0.36 - 0.59 mg/l (OECD 202).
NOEC, 21 d., Daphnia Magna: 63 µg/l (growth and reproduction, OECD 211).

Algae

EC₅₀, 72 hrs., Desmodesmus subspicatus: > 0.065 mg/l (growth rate, OECD 201).
NOEC, 72 hrs., Desmodesmus subspicatus: 0.065 mg/l (biomass, OECD 201).

4-Methyl-3-decen-5-ol

CAS: 81782-77-6

The substance is classified as Aquatic Acute 1; H400 (M = 1) and Aquatic Chronic 2; H411.

Fish

LC₅₀, 96 hrs., Danio rerio: 3 mg/l (mortality, OECD 203).

Crustaceans

EC₅₀, 48 hrs., Daphnia Magna: 0.4 mg/l (mobility, OECD 202).
NOEC, 21 d., Daphnia Magna: 25 µg/l (reproduction, OECD 211).

Algae

EC₅₀, 72 hrs, Pseudokirchneriella subcapitata: 3.6 mg/l (growth rate, OECD 201).
NOEC, 72 hrs, Pseudokirchneriella subcapitata: 1.3 mg/l (growth rate, OECD 201).

3-p-Cumenyl-2-methylpropionaldehyde

CAS: 103-95-7

The substance is classified as Aquatic Chronic 3; H412.

Fish

LC₅₀, 96 hrs.: 1 092 mg/l (mono aldehyde (Q)SAR method).
LC₅₀, 96 hrs.: 3 032 mg/l (neutral organic (Q)SAR method).

Crustaceans

EC₅₀, 48 hrs., Daphnia Magna: 1.4 mg/l (immobility, OECD 202).

Algae

EC₅₀, 72 hrs, Pseudokirchneriella subcapitata: 2.7 mg/l (biomass, OECD 201).
EC₅₀, 72 hrs, Pseudokirchneriella subcapitata: 4.3 mg/l (growth rate, OECD 201).
NOEC, 72 hrs, Pseudokirchneriella subcapitata: 0.72 mg/l (biomass, OECD 201).
NOEC, 72 hrs, Pseudokirchneriella subcapitata: 0.72 mg/l (growth rate, OECD 201).

12.2. Persistence and degradability

Mixture

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Data for the mixture are not available.	
Propan-2-ol	CAS: 67-63-0
Readily biodegradable: 53 % after 5 days (CO ₂ evolution, OECD 301 B).	
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	EC: 915-730-3
Not readily biodegradable: 0% after 28 days (O ₂ consumption, OECD 301 C).	
(R)-p-Mentha-1,8-diene	CAS: 5989-27-5
Readily biodegradable: 80 % after 28 days (O ₂ consumption, OECD 301 D).	
Linalool	CAS: 78-70-6
Readily biodegradable: 64.2 % after 28 days (O ₂ consumption, OECD 301 D).	
Hexyl salicylate	CAS: 6259-76-3
Readily biodegradable: 91 % after 28 days (O ₂ consumption, OECD 301 F).	
(E)-2-Benzylidenooctanal	CAS: 165184-98-5
Readily biodegradable: ca. 97 % after 28 days (O ₂ consumption, OECD 301 F).	
4-Methyl-3-decen-5-ol	CAS: 81782-77-6
Readily biodegradable: ca. 73 % after 28 days (O ₂ consumption, OECD 301 F).	
3-p-Cumenyl-2-methylpropionaldehyde	CAS: 103-95-7
Readily biodegradable: 65.5 % after 28 days (CO ₂ evolution, OECD 301 B).	
12.3. Bioaccumulative potential	
Mixture	
Data for the mixture are not available.	
Propan-2-ol	CAS: 67-63-0
log Pow = 0.05 (25 °C).	
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	EC: 915-730-3
BCF = 600 (Lepomis macrochirus, OECD 305). log Pow = 5.6 (30 °C, OECD 117).	
(R)-p-Mentha-1,8-diene	CAS: 5989-27-5
BCF = 360.5 (Q)SAR method. log Pow = 4.38 (37 °C, pH = 7.2).	
Linalool	CAS: 78-70-6
log Pow = 2.84 (25 °C, pH = 7, OECD 117).	
Hexyl salicylate	CAS: 6259-76-3
BCF = 8 913 (Q)SAR method. log Pow = 5.5 (30 °C, pH = ca. 7, OECD 117).	
(E)-2-Benzylidenooctanal	CAS: 165184-98-5

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log Pow = ca. 5.3 (24 °C, OECD 117).	
4-Methyl-3-decen-5-ol	CAS: 81782-77-6
BCF = 412 l/kg ((Q)SAR method). log Pow = 3.9 (30 °C, pH = 7, OECD 117).	
3-p-Cumenyl-2-methylpropionaldehyde	CAS: 103-95-7
BCF = 155 l/kg ((Q)SAR method). log Pow = 3.4 (35 °C, OECD 117).	
12.4. Mobility in soil	
Mixture	
Data for the mixture are not available.	
Propan-2-ol	CAS: 67-63-0
Data for the substance are not available.	
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	EC: 915-730-3
log Koc = 4.12.	
(R)-p-Mentha-1,8-diene	CAS: 5989-27-5
Koc = 1 120.	
Linalool	CAS: 78-70-6
Data for the substance are not available.	
Hexyl salicylate	CAS: 6259-76-3
Koc = 2 981 ((Q)SAR method).	
(E)-2-Benzylidenooctanal	CAS: 165184-98-5
log Koc = 4.2 (25 °C, OECD 121).	
4-Methyl-3-decen-5-ol	CAS: 81782-77-6
log Koc = 3.07 (35 °C, OECD 121).	
3-p-Cumenyl-2-methylpropionaldehyde	CAS: 103-95-7
log Koc = 3.05 (35 °C, OECD 121).	
12.5. Results of PBT and vPvB assessment	
Mixture does not contain substance(s) meeting the criteria for persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) in accordance with Annex XIII of REACH Regulation. The mixture and its substances are not mentioned on the Candidate list for possible inclusion in Annex XIV of REACH at the date of the revision of the safety data sheet (established in accordance with Article 59(1) of REACH Regulation.	
12.6. Endocrine disrupting properties	
The mixture and its substances are not mentioned on the Candidate list for possible inclusion in Annex XIV of REACH at the date of the revision of the safety data sheet (established in accordance with Article 59(1) of REACH Regulation. Mixture does not contain the substance(s) 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.	

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12.7. Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods of the substance or mixture and the contaminated packaging

Dispose according to the applicable European and local regulations (eg. in a hazardous waste incinerator). Do not empty unused product into drainage systems. Do not contaminate ponds or ditches with the product or used container. Hand over the residual amounts and solutions to a licensed disposal company.

Hand over the remaining quantities and unregenerate solutions to an authorized person (specialized company with authorization) or to the collection yard in the hazardous waste section according to the worker's instructions. Empty, cleaned packaging can be stored at a landfill of the appropriate category or **in the sorted waste**.

Possible waste code

16 03 05* organic wastes containing hazardous substances, 15 01 10* - packaging containing residues of or contaminated by hazardous substances (contaminated packaging), 15 01 02 - plastic packaging (clear packaging).

Physical/chemical properties that may affect waste treatment options

Flammability.

Special precautions recommended for waste management

Not known.

Waste legislation

Directive 2008/98/EC on waste and repealing certain Directives, as amended.

SECTION 14: Transport information

14.1. UN number or ID number

UN 1987

14.2. UN proper shipping name

ALCOHOLS, N.O.S. (Propan-2-ol)

14.3. Transport hazard class(es)

3

14.4. Packing group

III.

14.5. Environmental hazards

It is not dangerous for the environment during transport.

14.6. Special precautions for user

Not given.

14.7. Maritime transport in bulk according to IMO instruments

Not available.

14.8. Other information

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Labeling according to ADR



Additional data for ADR/RID

Classification code	F1
Labels	3
Hazard identification code	30
Tunnel restriction code	D/E (ADR), - (RID)
Limited quantities	5 l
Excepted quantities	Maximum net quantity per inner packaging: 30 ml. Maximum net quantity per outer packaging: 1 000 ml.
Transport category	3

Additional data for IMDG

Emergency Schedules (EmS)	F-E, S-D.
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SECTION 15: Regulatory information

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

Regulation No. 1907/2006/EC, concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals, as amended (REACH)

Regulation No. 1272/2008/EC, on Classification, Labelling and Packaging of substances and mixtures, as amended (CLP)

15.2. Chemical safety assessment

Has not been carried out for mixture.

SECTION 16: Other information

Reason for the revision of the safety data sheet

Change labeling of the mixture. Change in concentrations of substances in section 3 and related changes in other sections.

Key or legend to abbreviations and acronyms

Aquatic Acute 1	Acute aquatic hazard, cat. 1
Aquatic Chronic 1	Chronic aquatic hazard, cat. 1
Aquatic Chronic 2	Chronic aquatic hazard, cat. 2
Aquatic Chronic 3	Chronic aquatic hazard, cat. 3
Asp. Tox. 1	Aspiration hazard, cat. 1
Eye Irrit. 2	Eye irritation, cat. 2

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Flam. Liq. 2	Flammable liquid, cat. 2
Flam. Liq. 3	Flammable liquid, cat. 3
Skin Irrit. 2	Skin irritation, cat. 2
Skin Sens. 1	Skin sensitization, cat. 1
Skin Sens. 1B	Skin sensitization, cat. 1B
STOT SE 3	Specific target organ toxicity - single exposure, cat. 3
M	Multiplying factor
ADR	Accord Dangereuses Route
CLP	Regulation No. 1272/2008/EC, on Classification, Labelling and Packaging of substances and mixtures
DNEL	Derived No Effect Level
ICAO/IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
PBT	Persistent, bioaccumulative, toxic substance
PNEC	Predicted No Effect Concentration
REACH	Regulation No. 1907/2006/EC, concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulation concerning the International Carriage of Dangerous Goods by Rail
STOT	Specific target organ toxicity
vPvB	Very persistent and very bioaccumulative substance

Sources of key data used to compile the Safety Data Sheet

European legislation, manufacturer's safety data sheet, registration dossier of substances.

List of H- and P- phrases

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
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.
P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P273	Avoid release to the environment.

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P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P501	Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. Dispose of the cleaned packaging without any residual product content in the sorted waste.

Training advice

According to SDS.

Other information

Classification according to data from the manufacturer. The mixture is classified using calculation methods according to Regulation CLP and tests. Use only for the purposes designated by the manufacturer, will prevent health and environmental risks.

The information in this safety data sheet has been prepared according to the best available knowledge. The safety data sheet has been compiled in good faith but without guarantee. Various factors may influence properties under specific conditions. It is the responsibility of the product user to assess the accuracy of the information for their specific application. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

The safety data sheet is prepared in accordance with Regulation No. 2020/878/EC.

The safety data sheet was prepared by LACHEPRA s.r.o.