

SAFETY DATA SHEET

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

CLEAMEN 102/202

Date of revision: 15. 10. 2024

Version: 3.2

Replaced version from: 06. 03. 2023

Date of issue: 06. 10. 2020

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

1.1. Product identifier

Product Name

CLEAMEN 102/202

UFI code

UFI: ADK0-407A-U003-D2V9

Product code

None

Mixture description

Water solution of isopropanol 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

SAFETY DATA SHEET

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

CLEAMEN 102/202

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.

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

SAFETY DATA SHEET

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

CLEAMEN 102/202

EUH208 - Contains Benzyl salicylate, 3-p-Cumenyl-2-methylpropionaldehyde, 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, Linalool, 7-Hydroxycitronellal, Linalyl acetate, [3R-(3 α ,3 α β ,7 β ,8 α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one, Eugenol, (R)-p-Mentha-1,8-diene. 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		
Benzyl salicylate			
CAS Number	118-58-1	0.1 - < 0.5	Skin Sens. 1B; H317 Eye Irrit. 2; H319 Aquatic Chronic 3; H412
EC Number	204-262-9		
Index Number	not given		
Registration Number	01-2119969442-31-XXXX		
3-p-Cumenyl-2-methylpropionaldehyde			
CAS Number	103-95-7	0.1 - < 0.5	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Chronic 3; H412
EC Number	203-161-7		
Index Number	not given		
Registration Number	01-2119970582-32-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			
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		
Linalool; 3,7-Dimethyl-1,6-octadien-3-ol; dl-Linalool			

SAFETY DATA SHEET

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

CLEAMEN 102/202

CAS Number	78-70-6		
EC Number	201-134-4		Skin Irrit. 2; H315
Index Number	603-235-00-2	0.1 - < 0.5	Skin Sens. 1B; H317
Registration Number	01-2119474016-42-XXXX		Eye Irrit. 2; H319
7-Hydroxycitronellal			
CAS Number	107-75-5		
EC Number	203-518-7		Skin Sens. 1; H317
Index Number	not given	0.1 - < 0.5	Eye Irrit. 2; H319
Registration Number	not yet available		
Linalyl acetate; 3,7-Dimethyl-1,6-octadien-3-ol acetate			
CAS Number	115-95-7		Skin Irrit. 2; H315
EC Number	204-116-4		Skin Sens. 1B; H317
Index Number	not given	0.1 - < 0.5	Eye Irrit. 2; H319
Registration Number	01-2119454789-19-XXXX		
4,6,6,7,8,8-Hexamethyl-1,3,4,6,7,8-hexahydroindeno[5,6-c]pyran; Galaxolide; (HHCB)			
CAS Number	1222-05-5		Aquatic Acute 1; H400
EC Number	214-946-9		Aquatic Chronic 1; H410
Index Number	603-212-00-7	0.1 - < 0.5	M=1
Registration Number	01-2119488227-29-XXXX		M(Chronic)=1
(Z)-3-Hexenyl salicylate			
CAS Number	65405-77-8		
EC Number	265-745-8		Aquatic Acute 1; H400
Index Number	not given	0.1 - < 0.5	M=1
Registration Number	01-2119987320-37-XXXX		
[3R-(3α,3α,7β,8α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one			
CAS Number	32388-55-9		Skin Sens. 1B; H317
EC Number	251-020-3		Aquatic Acute 1; H400
Index Number	not given	0.1 - < 0.5	Aquatic Chronic 1; H410
Registration Number	01-2119969651-28-XXXX		EUH066
			M=1
			M(Chronic)=1
Eugenol; 4-Allyl-2-methoxyphenol			
CAS Number	97-53-0		
EC Number	202-589-1		Skin Sens. 1B; H317
Index Number	not given	0.1 - < 0.5	Eye Irrit. 2; H319
Registration Number	01-2119971802-33-XXXX		
Caryophyllene content is < 10 %.			
(R)-p-Mentha-1,8-diene; d-Limonene			

SAFETY DATA SHEET

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

CLEAMEN 102/202

CAS Number	5989-27-5		Flam. Liq. 3; H226
EC Number	227-813-5		Asp. Tox. 1; H304
Index Number	601-096-00-2	0.1 - < 0.5	Skin Irrit. 2; H315
Registration Number	01-2119529223-47-XXXX		Skin Sens. 1B; H317
			Aquatic Acute 1; H400
			Aquatic Chronic 3; H412
			M=1

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

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:

Fragmented 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

SAFETY DATA SHEET

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

CLEAMEN 102/202

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

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.

SAFETY DATA SHEET

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

CLEAMEN 102/202

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				
Fresh water	Marine water	Intermittent releases		Sewage Treatment Plant (STP)
		Fresh water	Marine water	
140.9 mg/l	140.9 mg/l	140.9 mg/l	not given	2 251 mg/l
PNEC				
Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators
552 mg/kg	552 mg/kg	not given	28 mg/kg	160 mg/kg food
Benzyl salicylate				CAS: 118-58-1
DNEL				
Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	7.8 mg/m ³
Workers	Dermal	Systemic effect	Long term	2.21 mg/kg/day
General population	Inhalation	Systemic effect	Long term	1.37 mg/m ³
General population	Dermal	Systemic effect	Long term	0.79 mg/kg/day
General population	Oral	Systemic effect	Long term	0.79 mg/kg/day
PNEC				
Fresh water	Marine water	Intermittent releases		Sewage Treatment Plant (STP)
		Fresh water	Marine water	

SAFETY DATA SHEET

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

CLEAMEN 102/202

0.001 mg/l	0 mg/l	0.01 mg/l	not given	10 mg/l
PNEC				
Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators
0.583 mg/kg	0.058 mg/kg	no effect	1.41 mg/kg	52.7 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
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				
DNEL				
Area of use	Route of exposure	Effect	Exposure time	Value
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

SAFETY DATA SHEET

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

CLEAMEN 102/202

3.73 mg/kg	0.75 mg/kg	not effect	2.7 mg/kg	26.7 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
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)
		Fresh water	Marine water	
0.2 mg/l	0.02 mg/l	2 mg/l	not given	10 mg/l
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
Linalyl acetate				CAS: 115-95-7
DNEL				
Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	2.75 mg/m ³
Workers	Dermal	Systemic effect	Long term	2.5 mg/kg/day
Workers	Dermal	Local effect	Long term	236.2 µg/cm ²
Workers	Dermal	Local effect	Acute/short term	236.2 µg/cm ²
General population	Inhalation	Systemic effect	Long term	0.68 mg/m ³
General population	Dermal	Systemic effect	Long term	1.25 mg/kg/day
General population	Dermal	Local effect	Long term	236.2 µg/cm ²
General population	Dermal	Local effect	Acute/short term	236.2 µg/cm ²
General population	Oral	Systemic effect	Long term	0.2 mg/kg/day
PNEC				
Fresh water	Marine water	Intermittent releases		Sewage Treatment Plant (STP)
		Fresh water	Marine water	
0.011 mg/l	0.001 mg/l	0.11 mg/l	not given	1 mg/l
PNEC				

SAFETY DATA SHEET

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

CLEAMEN 102/202

Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators
0.609 mg/l	0.061 mg/kg	no effect	0.115 mg/kg	no effect
4,6,6,7,8,8-Hexamethyl-1,3,4,6,7,8-hexahydroindeno[5,6-c]pyran				CAS: 1222-05-5
DNEL				
Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	13.5 mg/m ³
Workers	Dermal	Systemic effect	Long term	36.7 mg/kg/day
General population	Inhalation	Systemic effect	Long term	4 mg/m ³
General population	Dermal	Systemic effect	Long term	22 mg/kg/day
General population	Oral	Systemic effect	Long term	2.3 mg/kg/day
PNEC				
Fresh water	Marine water	Intermittent releases		Sewage Treatment Plant (STP)
		Fresh water	Marine water	
6.8 µg/l	0.44 µg/l	not given	not given	1 mg/l
PNEC				
Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators
2 mg/kg	0.394 mg/kg	no effect	1.5 mg/kg	20.4 mg/kg food
(Z)-3-Hexenyl salicylate				CAS: 65405-77-8
DNEL				
Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	1.59 mg/m ³
Workers	Dermal	Systemic effect	Long term	0.9 mg/kg/day
General population	Inhalation	Systemic effect	Long term	0.39 mg/m ³
General population	Dermal	Systemic effect	Long term	0.45 mg/kg/day
General population	Oral	Systemic effect	Long term	0.23 mg/kg/day
PNEC				
Fresh water	Marine water	Intermittent releases		Sewage Treatment Plant (STP)
		Fresh water	Marine water	
0.61 µg/l	0.061 µg/l	6.1 µg/l	not given	10 mg/l
PNEC				
Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators
0.11 mg/kg	0.011 mg/kg	not effect	0.022 mg/kg	40 mg/kg food
[3R-(3α,3αβ,7β,8αα)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one				CAS: 32388-55-9
DNEL				
Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	1.17 mg/m ³

SAFETY DATA SHEET

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

CLEAMEN 102/202

Workers	Dermal	Systemic effect	Long term	0.333 mg/kg/day
General population	Inhalation	Systemic effect	Long term	0.29 mg/m ³
General population	Dermal	Systemic effect	Long term	0.167 mg/kg/day
General population	Oral	Systemic effect	Long term	0.167 mg/kg/day
PNEC				
Fresh water	Marine water	Intermittent releases		Sewage Treatment Plant (STP)
1.74 µg/l	0.174 µg/l	Fresh water	Marine water	10 mg/l
		8.6 µg/l	not given	
PNEC				
Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators
24.4 mg/kg	2.44 mg/kg	no effect	4.87 mg/kg	no effect
Eugenol				CAS: 97-53-0
DNEL				
Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	21.2 mg/m ³
Workers	Dermal	Systemic effect	Long term	6 mg/kg/day
General population	Inhalation	Systemic effect	Long term	5.22 mg/m ³
General population	Dermal	Systemic effect	Long term	3 mg/kg/day
General population	Oral	Systemic effect	Long term	3 mg/kg/day
PNEC				
Fresh water	Marine water	Intermittent releases		Sewage Treatment Plant (STP)
0.202 mg/l	0.02 mg/l	Fresh water	Marine water	no effect
		11.3 µg/l	not given	
PNEC				
Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators
14.448 mg/kg	1.449 mg/kg	no effect	0.015 mg/kg	no effect
(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	

SAFETY DATA SHEET

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

CLEAMEN 102/202

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
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				
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.		

SAFETY DATA SHEET

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

CLEAMEN 102/202

Odour	Charateristic.
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.
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	Colopurless.
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.

SAFETY DATA SHEET

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

CLEAMEN 102/202

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.
Benzyl salicylate CAS: 118-58-1	
Physical state	Liquid.
Colour	Colourless to yellowish.
Odour	Not determined.
Melting point/freezing point	< - 50 °C (OECD 102).
Boiling point or initial boiling point and boiling range	322 °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	176.5 °C (EU method A.9).
Auto-ignition temperature	440 °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	8.8 mg/l (20 °C, OECD 105).
Partition coefficient n-octanol/water (log value)	4 (35 °C, OECD 117).
Vapour pressure	69 mN/m (20 °C, concentration 0.004 g/l, OECD 115).
Density and/or relative density	1.181 kg/m ³ (20 °C, 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.

SAFETY DATA SHEET

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

CLEAMEN 102/202

Melting point/freezing point	< - 50 °C (OECD 102).
Boiling point or initial boiling point and boiling range	234 °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	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)	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.
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	
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).

SAFETY DATA SHEET

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

CLEAMEN 102/202

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.
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.
Linalyl acetate CAS: 115-95-7	
Physical state	Liquid.

SAFETY DATA SHEET

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

CLEAMEN 102/202

Colour	Colourless.
Odour	Not determined.
Melting point/freezing point	< -100 °C (OECD 102).
Boiling point or initial boiling point and boiling range	220 °C.
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	85 °C.
Auto-ignition temperature	270 °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	30 mg/l (20 °C).
Partition coefficient n-octanol/water (log value)	3.9 (25 °C, OECD 107).
Vapour pressure	< 1 hPa (20 °C).
Density and/or relative density	901.8 kg/m ³ (20 °C).
Relative vapour density	Not determined.
Particle characteristics	Does not apply to liquid.
4,6,6,7,8,8-Hexamethyl-1,3,4,6,7,8-hexahydroindeno[5,6-c]pyran CAS: 1222-05-5	
Physical state	Liquid.
Colour	Colourless.
Odour	Not determined.
Melting point/freezing point	< -20 °C (OECD 102).
Boiling point or initial boiling point and boiling range	318 °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	144 °C (EU method A.9).
Auto-ignition temperature	355 °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.

SAFETY DATA SHEET

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

CLEAMEN 102/202

pH	Not determined.
Kinematic viscosity	Not determined, it is not a hydrocarbon or a chlorinated hydrocarbon.
Solubility	1.65 mg/l (25 °C, pH = 7, OECD 105). 1.99 mg/l (25 °C, pH = 5, OECD 105). 1.69 mg/l (25 °C, pH = 9, OECD 105).
Partition coefficient n-octanol/water (log value)	log Pow = 5.3 (25 °C, pH = 7, OECD 117).
Vapour pressure	Not determined.
Density and/or relative density	0.99 - 1.015 g/cm ³ (20 °C, OECD 109).
Relative vapour density	Not determined.
Particle characteristics	Does not apply to liquid.
(Z)-3-Hexenyl salicylate CAS: 65405-77-8	
Physical state	Liquid.
Colour	Colourless.
Odour	Not determined.
Melting point/freezing point	< -50 °C (OECD 102).
Boiling point or initial boiling point and boiling range	303 °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	110 °C (EU method A.9).
Auto-ignition temperature	390 °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	5 mg/l (20 °C, EU method A.6).
Partition coefficient n-octanol/water (log value)	log Pow = 4.8 (25 °C, pH = ca. 7, OECD 117).
Vapour pressure	0.15 Pa (25 °C, EU method A.4).
Density and/or relative density	1.062 g/ml (20 °C, EU method A.3).
Relative vapour density	Not determined.
Particle characteristics	Does not apply to liquid.
[3R-(3α,3aβ,7β,8aα)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one CAS: 32388-55-9	
Physical state	Liquid.

SAFETY DATA SHEET

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

CLEAMEN 102/202

Colour	Light yellow to light brown.
Odour	Woody.
Melting point/freezing point	Not determined.
Boiling point or initial boiling point and boiling range	320.9 °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	> 100 °C (EU method A.9).
Auto-ignition temperature	243 °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	6 mg/l (23 °C).
Partition coefficient n-octanol/water (log value)	log Pow = 5.6 - 5.9 (OECD 117).
Vapour pressure	Not determined.
Density and/or relative density	1 001 kg/m ³ (20 °C).
Relative vapour density	Not determined.
Particle characteristics	Does not apply to liquid.
Eugenol CAS: 97-53-0	
Physical state	Liquid.
Colour	Colourless to light yellow.
Odour	Strong odour of clove.
Melting point/freezing point	-7.5 °C (EU method A.1).
Boiling point or initial boiling point and boiling range	248 °C (EU method A.2).
Flammability	Not determined.
Lower explosion limit	Not determined.
Upper explosion limit	Not determined.
Flash point	124 °C (EU method A.9).
Auto-ignition temperature	380 °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.

SAFETY DATA SHEET

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

CLEAMEN 102/202

Kinematic viscosity	Not determined, it is not a hydrocarbon or a chlorinated hydrocarbon.
Solubility	1 154 mg/l (20 °C, 6.9 - 7.3, EU method A.6).
Partition coefficient n-octanol/water (log value)	log Pow = 1.83 (30 °C, pH = 5.5, OECD 117).
Vapour pressure	0.04 hPa (25 °C, EU method A.4).
Density and/or relative density	$D_4^{25} = 1.065$ (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.
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.
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.	

SAFETY DATA SHEET

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

CLEAMEN 102/202

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
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

SAFETY DATA SHEET

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

CLEAMEN 102/202

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

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

SAFETY DATA SHEET

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

CLEAMEN 102/202

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.

Benzyl salicylate

CAS: 118-58-1

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

SAFETY DATA SHEET

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

CLEAMEN 102/202

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.

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.

SAFETY DATA SHEET

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

CLEAMEN 102/202

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.

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.

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

SAFETY DATA SHEET

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

CLEAMEN 102/202

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.

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.

SAFETY DATA SHEET

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

CLEAMEN 102/202

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

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

SAFETY DATA SHEET

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

CLEAMEN 102/202

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.

Linalyl acetate

CAS: 115-95-7

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

Data for the substance are not available.

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

Pyrophoric solids

It is not solid.

SAFETY DATA SHEET

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

CLEAMEN 102/202

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.

4,6,6,7,8,8-Hexamethyl-1,3,4,6,7,8-hexahydroindeno[5,6-c]pyran

CAS: 1222-05-5

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

SAFETY DATA SHEET

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

CLEAMEN 102/202

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.

(Z)-3-Hexenyl salicylate

CAS: 65405-77-8

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.

SAFETY DATA SHEET

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

CLEAMEN 102/202

<i>Gases under pressure</i>
It is not gas.
<i>Flammable liquids</i>
The substance is not classified as flammable liquid according to the value of the flash point and boiling point.
<i>Flammable solids</i>
It is not solid.
<i>Self-reactive substances and mixtures</i>
Data for the substance are not available. The substance does not contain chemical groups associated with explosive or self-reactive properties.
<i>Pyrophoric liquids</i>
Data for the substance are not available. The substance is stable in air, there is no spontaneous ignition.
<i>Pyrophoric solids</i>
It is not solid.
<i>Self-heating substances and mixtures</i>
Data for the substance are not available. The substance is not classified as self-heating.
<i>Substances and mixtures, which emit flammable gases in contact with water</i>
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.
<i>Oxidising liquids</i>
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.
<i>Oxidizing solids</i>
It is not solid.
<i>Organic peroxides</i>
Data for the substance are not available. The substance does not contain a bivalent group -O-O- with at least one organic radical.
<i>Corrosive to metals</i>
Data for the substance are not available. The substance is not classified as corrosive to metal.
<i>Desensitised explosives</i>
Data for the substance are not available. The substance does not contain chemical groups associated with explosive properties.
[3R-(3α,3aβ,7β,8aα)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one
CAS: 32388-55-9
<i>Explosives</i>

SAFETY DATA SHEET

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

CLEAMEN 102/202

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.

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

SAFETY DATA SHEET

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

CLEAMEN 102/202

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.

Eugenol

CAS: 97-53-0

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

SAFETY DATA SHEET

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

CLEAMEN 102/202

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

Data for the substance are not available.

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

Pyrophoric solids

It is not solid.

SAFETY DATA SHEET

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

CLEAMEN 102/202

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

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

SECTION 10: Stability and reactivity

10.1. Reactivity

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

SAFETY DATA SHEET

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

CLEAMEN 102/202

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

SAFETY DATA SHEET

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

CLEAMEN 102/202

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 Benzyl salicylate, 3-p-Cumenyl-2-methylpropionaldehyde, 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, Linalool, 7-Hydroxycitronellal, Linalyl acetate, [3R-(3 α ,3 α β ,7 β ,8 α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one, Eugenol, (R)-p-Mentha-1,8-diene. 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).

SAFETY DATA SHEET

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

CLEAMEN 102/202

Skin corrosion/irritation

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.

Benzyl salicylate

CAS: 118-58-1

Acute toxicity

Oral Based on available data, the classification criteria are not met.
LD₅₀ = 2 227 mg/kg (rat, male).

Dermal Based on available data, the classification criteria are not met.
LD₅₀ = 14 150 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 = 0.2 and oedema = 0.6 (rabbit, OECD 404).

Serious eye damage/irritation

SAFETY DATA SHEET

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

CLEAMEN 102/202

The substance is classified as eye irritant.

Mean score of corneal opacity = 0, 1, 0 (fully reversible after 4 days), iritis = 0, 0, 0, conjunctival redness = 1.67; 2; 2 (fully reversible after 7 days), conjunctival oedema = 0.67; 2.33; 0.67 (fully reversible after 3 - 4 days) (rabbit, 72 h, Draize test).

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 (Ames test).

Carcinogenicity

Data for the substance are not available.

Reproductive toxicity

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

NOAEL = 180 mg/kg/day (read-across (cyklohexyl salicylate), rat, female, oral, generation P0, OECD 415).

NOAEL = 540 mg/kg/day (read-across (cyklohexyl salicylate), rat, male, oral, generation P0, OECD 415).

NOAEL = 180 mg/kg/day (read-across (cyklohexyl salicylate), developmental effects, rat, 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 = 360 mg/kg/day (read-across (cyklohexyl salicylate), rat, female, oral, 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.

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.

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

SAFETY DATA SHEET

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

CLEAMEN 102/202

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.

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

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

No effect on the eye (Q)SAR method.

Respiratory or skin sensitisation

SAFETY DATA SHEET

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

CLEAMEN 102/202

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.

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.

SAFETY DATA SHEET

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

CLEAMEN 102/202

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.

Linalyl acetate

CAS: 115-95-7

Acute toxicity

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

LD₅₀ = 13 934 mg/kg (rat)

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

LD₅₀ > 5 000 mg/kg (rabbit, literature).

Inhalation Data for the substance are not available.

Skin corrosion/irritation

The substance is classified as skin irritant.

Mean erythema score test 1 = 1.88 not fully reversible for 2/3 animals in 7 days and edema test 1 = 1.78 not fully reversible for 2/3 animals in 7 days, mean erythema score test 2 = 1.91 not fully reversible for 4/4 animals in 7 days and edema test 2 = 1 not fully reversible for 1/4 animals per 7 (rabbit, OECD 404).

Serious eye damage/irritation

The substance is classified as eye irritant.

Mean score of corneal opacity = 1 (fully reversible for 2/3 in 8 days and 1/3 in 15 days), iritis = 0.6 (fully reversible in 8 days), conjunctival redness = 2.3 (fully reversible in 8 days), conjunctival edema = 0.4 (fully reversible in 8 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).

Carcinogenicity

Data for the substance are not available.

Reproductive toxicity

SAFETY DATA SHEET

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

CLEAMEN 102/202

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

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

NOAEL = 365 mg/kg/day (reduced litter size and increased mortality in chicks, oral, rat, female, 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 - 117 mg/kg/day (stomach and kidney, 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.

4,6,6,7,8,8-Hexamethyl-1,3,4,6,7,8-hexahydroindeno[5,6-c]pyran

CAS: 1222-05-5

Acute toxicity

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

LD₅₀ > 4 640 mg/kg (rat, female, OECD 401).

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

LD₅₀ > 10 000 mg/kg (rat, female, OECD 402).

Inhalation Data for the substance are not available.

Skin corrosion/irritation

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

Mean erythema score = 1 and oedema = 0.3 (rabbit, OECD 404).

Serious eye damage/irritation

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

Mean ocular irritation score = 0 (rabbit, 72 h, OECD 405).

Respiratory or skin sensitisation

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

Not skin sensitising (guinea pig, maximization test).

Germ cell mutagenicity

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

Negative (OECD 471, OECD 473, OECD 482).

Carcinogenicity

Data for the substance are not available.

Reproductive toxicity

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

NOAEL = 20 mg/kg/day (oral, rat, female, generation P0, OECD 426).

NOAEL = 20 mg/kg/day (oral, rat, generation F1, OECD 426).

STOT – single exposure

Data for the substance are not available.

SAFETY DATA SHEET

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

CLEAMEN 102/202

STOT – repeated exposure	
Based on available data, the classification criteria are not met. NOAEL = 150 mg/kg/day (rat, oral, 90 days, OECD 408).	
Aspiration hazard	
The substance is not a hydrocarbon or a chlorinated hydrocarbon with a kinematic viscosity of 20.5 mm ² /s or less at 40 °C.	
(Z)-3-Hexenyl salicylate	CAS: 65405-77-8
Acute toxicity	
Oral	Based on available data, the classification criteria are not met. LD ₅₀ = 3 339 mg/kg (rat, male, EU method B.1). LD ₅₀ = 3 031 mg/kg (rat, female, EU method B.1).
Dermal	Based on available data, the classification criteria are not met. LD ₅₀ > 2 000 mg/kg (rabbit, , EU method B.3).
Inhalation	Data for the substance are not available.
Skin corrosion/irritation	
Data for the substance are not available.	
Serious eye damage/irritation	
Based on available data, the classification criteria are not met. Mean score of corneal opacity = 0, iritis = 0, conjunctival redness = 0.165 (fully reversible after 48 hours), conjunctival oedema = 0.275 (fully reversible after 48 hours) (rabbit, 72 h, EU method B.5).	
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 473, OECD 476).	
Carcinogenicity	
Data for the substance are not available.	
Reproductive toxicity	
Based on available data, the classification criteria are not met. NOAEL = 540 mg/kg/day (reproduction, rat, male, oral, generation P0, OECD 415). NOAEL = 180 mg/kg/day (reproduction, rat, female, oral, generation P0, OECD 415). NOAEL = 180 mg/kg/day (development, rat, 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 = 360 mg/kg/day (rat, oral, 90 days, OECD 408)	
Aspiration hazard	

SAFETY DATA SHEET

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

CLEAMEN 102/202

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

[3R-(3 α ,3 β ,7 β ,8 α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one

CAS: 32388-55-9

Acute toxicity

Oral Based on available data, the classification criteria are not met.
LD₅₀ = 4 500 mg/kg (rat, OECD 401).

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

Based on available data, the classification criteria are not met.
Tissue viability = 76.2 % (OECD 439).

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, conjunctival oedema = 0 (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).

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 = 80 mg/kg/day (haematology, organ weights and organ / body weight ratios, histopathology: non-neoplastic, rat, oral, 90 days, OECD 415).
NOAEL = 300 mg/kg/day (rat, dermal, 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.

Eugenol

CAS: 97-53-0

Acute toxicity

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

SAFETY DATA SHEET

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

CLEAMEN 102/202

Dermal Data for the substance are not available.

Inhalation Based on available data, the classification criteria are not met.
LC₅₀ > 2.6 mg/l (rat, aerosol, 4 hrs., no death is observed, OECD 403).

Skin corrosion/irritation

Based on available data, the classification criteria are not met.
Mean erythema score = 1.9 (not fully reversible after 7 days) and oedema = 3.2 (not fully reversible after 7 days) (rabbit, 72 hrs., OECD 404).

Serious eye damage/irritation

The substance is classified as eye irritant.
Overall irritation score = 54 (1 day), 27 (2 days), 14 (4 days), 3 (7 days) (rabbit, 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 482).

Carcinogenicity

Data for the substance are not available.

Reproductive toxicity

Based on available data, the classification criteria are not met.
NOAEL ≥ 700 mg/kg/day (fertility, rat, oral, generation P0, OECD 416).
LOAEL ≤ 70 mg/kg/day (parental toxicity, rat, oral, generation P0, OECD 416).
NOAEL ≥ 230 mg/kg/day (body weight and weight gain, rat, oral, generation F1, OECD 416).
LOAEL = 700 mg/kg/day (body weight and weight gain, rat, oral, generation F1, OECD 416)..

STOT – single exposure

Data for the substance are not available.

STOT – repeated exposure

Based on available data, the classification criteria are not met.
NOAEL = ca. 600 mg/kg/day (slight body weight decrease, rat, male, oral, 90 d., OECD 408).
LOAEL = ca. 1 250 mg/kg/day (slight body weight decrease, rat, male, oral, 90 d., OECD 408).
NOAEL ≥ 1 250 mg/kg/day (slight body weight decrease, rat, female, oral, 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.

SAFETY DATA SHEET

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

CLEAMEN 102/202

Skin corrosion/irritation

The substance 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).

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.

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.

SECTION 12: Ecological information

12.1. Toxicity

SAFETY DATA SHEET

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

CLEAMEN 102/202

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		$\Sigma < 2$		
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	< 1.5	< 15	< 150	not relevant
Propan-2-ol			CAS: 67-63-0	
The substance is not classified as hazardous for the aquatic environment.				
Fish				
LC ₅₀ , 96 hrs., Pimephales promelas: 9 640 - 10 000 mg/l (mortality, OECD 203)				
Crustaceans				
EC ₅₀ , 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				
Benzyl salicylate			CAS: 118-58-1	
The substance is classified as Aquatic Chronic 3; H412.				
Fish				
LC ₅₀ , 96 hrs., Danio rerio: 1.03 mg/l (mortality, EU method C.1).				
Crustaceans				
EC ₅₀ , 48 hrs., Daphnia Magna: 1.16 mg/l (immobility, OECD 202).				
NOEC, 48 hrs., Daphnia Magna: 0.894 mg/l (immobility, OECD 202).				
Algae				
EC ₅₀ , 72 hrs., Pseudokirchneriella subcapitata: 1.29 mg/l (growth rate, OECD 201).				
NOEC, 72 hrs., Pseudokirchneriella subcapitata: 0.502 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				
LC ₅₀ , 96 hod.: 1 092 mg/l (mono aldehyde (Q)SAR method).				
LC ₅₀ , 96 hod.: 3 032 mg/l (neutral organic (Q)SAR method).				
Crustaceans				
EC ₅₀ , 48 hrs., Daphnia Magna: 1.4 mg/l (immobility, OECD 202).				
Algae				

SAFETY DATA SHEET

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

CLEAMEN 102/202

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).

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).

Linalool

CAS: 78-70-6

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

Fish

LC₅₀, 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

EC₅₀, 48 hrs., Daphnia Magna: 59 mg/l (mobility, OECD 202).
NOEC, 48 hrs., Daphnia Magna: 25 mg/l (reproduction, OECD 202).

Algae

EC₅₀, 72 hrs., Desmodesmus subspicatus: 156.7 mg/l (growth rate, DIN 38412 L 9).
EC₅₀, 72 hrs., Desmodesmus subspicatus: 88.3 mg/l (biomass, DIN 38412 L 9).
EC₁₀, 72 hrs., Desmodesmus subspicatus: 54.3 mg/l (growth rate, DIN 38412 L 9).
EC₁₀, 72 hrs., Desmodesmus subspicatus: 38.4 mg/l (biomass, DIN 38412 L 9).

Linalyl acetate

CAS: 115-95-7

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

Fish

LC₅₀, 96 hrs., Cyprinus carpio: 11 mg/l (mortality, OECD 203).

Crustaceans

SAFETY DATA SHEET

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

CLEAMEN 102/202

EC₅₀, 48 hrs., Daphnia Magna: 59 mg/l (mobility, OECD 202).
NOEC, 48 hrs., Daphnia Magna: 25 mg/l (mobility, OECD 202).

Algae

EC₅₀, 96 hrs., Desmodesmus subspicatus: 88.3 mg/l (biomass, DIN 38412 L 9).
EC₅₀, 96 hrs., Desmodesmus subspicatus: 156.7 mg/l (growth rate, DIN 38412 L 9).
EC₁₀, 96 hrs., Desmodesmus subspicatus: 38.4 mg/l (biomass, DIN 38412 L 9).
EC₁₀, 96 hrs., Desmodesmus subspicatus: 54.3 mg/l (growth rate, DIN 38412 L 9).

4,6,6,7,8,8-Hexamethyl-1,3,4,6,7,8-hexahydroindeno[5,6-c]pyran

CAS: 1222-05-5

The substance is classified as Aquatic Acute 1; H400 (M = 1) and Aquatic Chronic 1; H410 (M=1).

Fish

LC₅₀, 96 hrs., Oryzias latipes: 0.95 mg/l (mortality, OECD 203).
NOEC, 36 d., Pimephales promelas: 0.068 mg/l (growth rate, survival, development, OECD 210).

Crustaceans

EC₅₀, 48 hrs., Daphnia Magna: 0.7 mg/l (mobility, OECD 202).
NOEC, 21 d., Daphnia Magna: 111 µg/l (reproduction, OECD 211).

Algae

EC₅₀, 72 hrs, Pseudokirchneriella subcapitata: > 0.854 mg/l (growth rate, OECD 201).
EC₅₀, 72 hrs, Pseudokirchneriella subcapitata: 0.723 mg/l (biomass, OECD 201).
NOEC, 72 hrs, Pseudokirchneriella subcapitata: 0.201 mg/l (growth rate, OECD 201).

(Z)-3-Hexenyl salicylate

CAS: 65405-77-8

The substance is classified as Aquatic Acute 1; H400 (M = 1).

Fish

LC₅₀, 96 hrs., Danio rerio: 3.8 mg/l (mortality, OECD 203).

Crustaceans

EC₅₀, 48 hrs., Daphnia Magna: 2.7 mg/l (mobility, OECD 202).

Algae

EC₅₀, 72 hrs., Desmodesmus subspicatus: 0.28 mg/l (biomass, OECD 201).
EC₅₀, 72 hrs., Desmodesmus subspicatus: 0.61 mg/l (growth rate, OECD 201).
EC₁₀, 72 hrs., Desmodesmus subspicatus: 0.2 mg/l (biomass, OECD 201).
EC₁₀, 72 hrs., Desmodesmus subspicatus: 0.19 mg/l (growth rate, OECD 201).
NOEC, 72 hrs., Desmodesmus subspicatus: 0.15 mg/l (growth rate, OECD 201).

[3R-(3α,3aβ,7β,8α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one

CAS: 32388-55-9

The substance is classified as Aquatic Acute 1; H400 (M = 1) and Aquatic Chronic 1; H410 (M=1).

Fish

LC₅₀, 96 hrs., Pimephales promelas: 2.3 mg/l (mortality, OECD 203).

Crustaceans

EC₅₀, 48 hrs., Daphnia Magna: 0.86 mg/l (mobility, OECD 202).
NOEC, 21 d., Daphnia Magna: 0.087 mg/l (reproduction, OECD 211).

SAFETY DATA SHEET

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

CLEAMEN 102/202

Algae	
EC ₅₀ , 72 hrs., Pseudokirchneriella subcapitata: 2.8 mg/l (biomass, OECD 201). EC ₅₀ , 72 hrs., Pseudokirchneriella subcapitata: > 4.3 mg/l (growth rate, OECD 201). EC ₁₀ , 72 hrs., Pseudokirchneriella subcapitata: 0.49 mg/l (biomass, OECD 201). EC ₁₀ , 72 hrs., Pseudokirchneriella subcapitata: 3 mg/l (growth rate, OECD 201). NOEC, 72 hrs., Pseudokirchneriella subcapitata: 1.07 mg/l (growth rate, OECD 201).	
Eugenol	CAS: 97-53-0
The substance is not classified as hazardous for the aquatic environment.	
Fish	
LC ₅₀ , 96 hrs., Danio rerio: 13 mg/l (mortality, OECD 203). NOEC, 96 hrs., Danio rerio: 10 mg/l (mortality, OECD 203).	
Crustaceans	
EC ₅₀ , 48 hrs., Daphnia Magna: 1.13 mg/l (mobility, OECD 202).	
Algae	
EC ₅₀ , 72 hrs., Desmodesmus subspicatus: 24 mg/l (growth rate, OECD 201). EC ₅₀ , 72 hrs., Desmodesmus subspicatus: 36 mg/l (biomass, OECD 201). EC ₁₀ , 72 hrs., Desmodesmus subspicatus: 23 mg/l (growth rate, OECD 201). EC ₁₀ , 72 hrs., Desmodesmus subspicatus: 35 mg/l (biomass, OECD 201). NOEC, 72 hrs., Desmodesmus subspicatus: 23 mg/l (growth rate, OECD 201). NOEC, 72 hrs., Desmodesmus subspicatus: 23 mg/l (biomass, OECD 201).	
(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).	
12.2. Persistence and degradability	
Mixture	
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).	

SAFETY DATA SHEET

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

CLEAMEN 102/202

Benzyl salicylate	CAS: 118-58-1
Readily biodegradable: 93 % 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).	
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).	
Linalool	CAS: 78-70-6
Readily biodegradable: 64.2 % after 28 days (O ₂ consumption, OECD 301 D).	
Linalyl acetate	CAS: 115-95-7
Readily biodegradable: 70 - 80 % after 28 days (O ₂ consumption, OECD 301 F).	
4,6,6,7,8,8-Hexamethyl-1,3,4,6,7,8-hexahydroindeno[5,6-c]pyran	CAS: 1222-05-5
Not readily biodegradable: ca. 2 % after 28 days (CO ₂ evolution, OECD 301 B).	
(Z)-3-Hexenyl salicylate	CAS: 65405-77-8
Readily biodegradable: 89 % after 28 days (O ₂ consumption, OECD 301 F).	
[3R-(3α,3aβ,7β,8aα)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	CAS: 32388-55-9
Not readily biodegradable: 36 % after 28 days (O ₂ consumption, OECD 301 F).	
Eugenol	CAS: 97-53-0
Readily biodegradable: 82 % after 28 days (O ₂ consumption, EU method C.4-E).	
(R)-p-Mentha-1,8-diene	CAS: 5989-27-5
Readily biodegradable: 80 % after 28 days (O ₂ consumption, OECD 301 D).	
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).	
Benzyl salicylate	CAS: 118-58-1
BCF = 202 (Q)SAR method. log Pow = 4 (35 °C, 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).	
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

SAFETY DATA SHEET

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

CLEAMEN 102/202

BCF = 600 (Lepomis macrochirus, OECD 305). log Pow = 5.6 (30 °C, OECD 117).	
Linalool	CAS: 78-70-6
log Pow = 2.84 (25 °C, pH = 7, OECD 117).	
Linalyl acetate	CAS: 115-95-7
BCF = 173.9 l/kg (calculation). log Pow = 3.9 (25 °C).	
4,6,6,7,8,8-Hexamethyl-1,3,4,6,7,8-hexahydroindeno[5,6-c]pyran	CAS: 1222-05-5
BCF = 498 - 2 507 (Lepomis macrochirus, OECD 305 E). log Pow = 5.3 (25 °C, pH = 7, OECD 117).	
(Z)-3-Hexenyl salicylate	CAS: 65405-77-8
BCF = 91.8 ((Q)SAR method). log Pow = 4.8 (25 °C, pH = cca. 7, OECD 117).	
[3R-(3α,3aβ,7β,8aα)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	CAS: 32388-55-9
BCF, Oncorhynchus mykiss: 867 - 3 920 (OECD 305). log Pow = 5.6 – 5.9 (OECD 117).	
Eugenol	CAS: 97-53-0
log Pow = 1.83 (30 °C, pH = 5.5, 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).	
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.	
Benzyl salicylate	CAS: 118-58-1
log Koc = 3.75.	
3-p-Cumenyl-2-methylpropionaldehyde	CAS: 103-95-7
log Koc = 3.05 (35 °C, OECD 121).	
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.	
Linalool	CAS: 78-70-6
Data for the substance are not available.	
Linalyl acetate	CAS: 115-95-7

SAFETY DATA SHEET

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

CLEAMEN 102/202

log K _{oc} = 2.71 (calculation).	
4,6,6,7,8,8-Hexamethyl-1,3,4,6,7,8-hexahydroindeno[5,6-c]pyran	CAS: 1222-05-5
log K _{oc} = 4.87 (OECD 106).	
(Z)-3-Hexenyl salicylate	CAS: 65405-77-8
K _{oc} = 1 770 - 5 052 l/kg ((Q)SAR method).	
[3R-(3α,3β,7β,8α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	CAS: 32388-55-9
log K _{oc} = 3.5 - 5.1 (OECD 121).	
Eugenol	CAS: 97-53-0
Data for the substance are not available.	
(R)-p-Mentha-1,8-diene	CAS: 5989-27-5
K _{oc} = 1 120.	
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.	
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.	

SAFETY DATA SHEET

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

CLEAMEN 102/202

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

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

SAFETY DATA SHEET

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

CLEAMEN 102/202

Additional data for IMDG

Emergency Schedules (EmS) F-E, S-D.

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

SAFETY DATA SHEET

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

CLEAMEN 102/202

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

EUH066	Repeated exposure may cause skin dryness or cracking.
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.
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.
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.

SAFETY DATA SHEET

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

CLEAMEN 102/202

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.