SAFETY DATA SHEET

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

CLEAMEN 100/200

Date of revision: **17. 06. 2024** Version: **3.0**

Replaced version from: **19. 10. 2023**

Date of issue: **18. 05. 2022**

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

1.1. Product identifier

Product Name

CLEAMEN 100/200

UFI code

UFI: 10U0-P0TS-P00M-G38H

Product code

TC10001/3.

Mixture description

Water solution.

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

Identified uses

Liquid agent for dilution, removes finger prints, smudges, and light grease from all non-absorbent materials.
Professional and consumer use.

Uses advised against

It is not suitable for waxed surfaces, highly shiny stone, artificial stone, and polishing mirrors.
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

Flam. Liq. 3; H226
Skin Corr. 1; H314
Eye Dam. 1; H318
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 severe skin burns and eye damage. May cause drowsiness or dizziness. Harmful to aquatic life with long lasting effects.

2.2. Label elements

Hazard pictograms

Signal word

Danger

Substances of the mixture to be placed on the label

Contains Propan-2-ol, Alcohols, C12-14, ethoxylated, sulfates, sodium salts, Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts, Sodium hydroxide.

Hazard statements

H226	Flammable liquid and vapour.
H314	Causes severe skin burns and eye damage.
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.
P261	Avoid breathing vapours.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.

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

EUH208 - Contains Koavone, Reaction mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, (R)-p-Mentha-1,8-diene, Linalool, Hexyl salicylate, (E)-2-Benzylideneoctanal, Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

Composition according to regulation 648/2004/EC on detergents: ≥ 15 - < 30 % anionic surfactants, < 5% non-ionic surfactants, amphoteric surfactants, perfumes, LIMONENE, LINALOOL, HEXYL CINNAMAL, GERANIOL, BENZYL SALICYLATE, preservation agents (METHYLCHLOROISOTHIAZOLINONE AND METHYLISOTHIAZOLINONE).

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 - < 30	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		
Alcohols, C12-14, ethoxylated, sulfates, sodium salts			
CAS Number	68891-38-3	10 - < 20	Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412
EC Number	500-234-8		
Index Number	not given		
Registration Number	01-2119488639-16-XXXX		
The substance has specific concentration limits:			
Eye Dam. 1; H318	C ≥ 10 %		
Eye Irrit. 2; H319	5 % < C < 10 %		
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts			

CAS Number EC Number Index Number Registration Number	68411-30-3 270-115-0 not given 01-2119489428-22-XXXX	5 - < 15	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412
2-Butoxyethanol; Ethylene glycol monobutyl ether; Butyl cellosolve			
CAS Number EC Number Index Number Registration Number	111-76-2 203-905-0 603-014-00-0 01-2119475108-36-XXXX	5 - < 15	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Acute Tox. 3; H331 ATE_{oral} = 1 200 mg/kg bw $ATE_{inhalation}$ = 3 mg/L (vapours)
Sodium hydroxide; Caustic soda			
CAS Number EC Number Index Number Registration Number	1310-73-2 215-185-5 011-002-00-6 01-2119457892-27-XXXX	0.1 - < 1	Met. Corr. 1; H290 Skin Corr. 1A; H314 Eye Dam. 1; H318
The substance has specific concentration limits:			
Skin Corr. 1A; H314	C ≥ 5 %		
Skin Corr. 1B; H314	2 % ≤ C < 5 %		
Skin Irrit. 2; H315	0.5 % ≤ C < 2 %		
Eye Irrit. 2; H319	0.5 % ≤ C < 2 %		
Amines, C12-14 (even numbered) -alkyldimethyl, N-oxides			
CAS Number EC Number Index Number Registration Number	308062-28-4 931-292-6 not given 01-2119490061-47-XXXX	0.1 - < 1	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 2; H411 M=1
(Z)-3,4,5,6,6-Pentamethylhept-3-en-2-one; Koavone			
CAS Number EC Number Index Number Registration Number	81786-73-4 279-822-9 not given not yet available	0.1 - < 1	Skin Sens. 1; H317 Aquatic Chronic 2; H411
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 EC Number Index Number Registration Number	not given 915-730-3 not given 01-2119489989-04-XXXX	0.1 - < 1	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Chronic 1; H410 M(Chronic) = 1
(R)-p-Mentha-1,8-diene; d-Limonene			

CAS Number EC Number Index Number Registration Number	5989-27-5 227-813-5 601-096-00-2 01-2119529223-47-XXXX	0.1 - < 1	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Acute 1; H400 Aquatic Chronic 3; H412 M=1
Linalool; 3,7-Dimethyl-1,6-octadien-3-ol; dl-Linalool			
CAS Number EC Number Index Number Registration Number	78-70-6 201-134-4 603-235-00-2 01-2119474016-42-XXXX	0.1 - < 1	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Eye Irrit. 2; H319
Hexyl salicylate			
CAS Number EC Number Index Number Registration Number	6259-76-3 228-408-6 not given 01-2119638275-36-XXXX	0.1 - < 1	Skin Sens. 1B; H317 Aquatic Chronic 1; H410 M=1
(E)-2-Benzylideneoctanal; α-Hexylcinnnamaldehyde			
CAS Number EC Number Index Number Registration Number	165184-98-5 639-566-4 not given 01-2119533092-50-XXXX	0.1 - < 1	Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 2; H411 M=1
Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)			
CAS Number EC Number Index Number Registration Number	55965-84-9 not given 613-167-00-5 not yet available	< 0.001	Acute Tox. 3; H301 Acute Tox. 2; H310 Skin Corr. 1C; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 Acute Tox. 2; H330 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 EUH071 M=100 M(Chronic)=100
The substance has specific concentration limits:			
Skin Corr. 1C; H314	C ≥ 0.6 %		
Eye Dam. 1; H318	C ≥ 0.6 %		
Skin Irrit. 2; H315	0.06 % ≤ C < 0.6 %		
Eye Irrit. 2; H319	0.06 % ≤ C < 0.6 %		
Skin Sens. 1A; H317	C ≥ 0.0015 %		
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. 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. 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 CO_2, 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

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, sulphur oxides, hydrogen sulphide, nitrogen oxides, ammonia, chlorine oxides, hydrogen chloride 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 room temperature.

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)

See subsection 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Exposure limit value

2-Butoxyethanol CAS: 111-76-2

Limit values - Eight hours		Limit values - Short-term		Note
98 mg/m^3	20 ppm	246 mg/m^3	50 ppm	skin

8.1.2. Biological limit values

Not determined in EU.

8.1.3. DNEL and PNEC values

Propan-2-ol CAS: 67-63-0

DNEL

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

PNEC - not yet available

2-Butoxyethanol CAS: 111-76-2

DNEL

Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	98 mg/m^3
Workers	Inhalation	Systemic effect	Acute/short term	1 091 mg/m^3
Workers	Inhalation	Local effect	Acute/short term	246 mg/m^3
General population	Inhalation	Systemic effect	Long term	59 mg/m^3
General population	Inhalation	Systemic effect	Acute/short term	426 mg/m^3
General population	Inhalation	Local effect	Acute/short term	147 mg/m^3
General population	Oral	Systemic effect	Long term	6.3 mg/kg/day
General population	Oral	Systemic effect	Acute/short term	26.7 mg/kg/day

PNEC

Fresh water	Marine water	Intermittent releases		Sewage Treatment Plant (STP)
		Fresh water	Marine water	
8.8 mg/l	0.88 mg/l	26.4 mg/l	not given	463 mg/l

PNEC

Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators
34.6 mg/kg	3.46 mg/kg	no effect	2.33 mg/kg	0.02 g/kg food

Alcohols, C12-14, ethoxylated, sulfates, sodium salts CAS: 68891-38-3

DNEL

Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	175 mg/m^3
Workers	Dermal	Systemic effect	Long term	2 750 mg/kg/day
Workers	Dermal	Local effect	Long term	132 µg/cm^2

General population	Inhalation	Systemic effect	Long term	52 mg/m^3
General population	Dermal	Systemic effect	Long term	1 650 mg/kg/day
General population	Dermal	Local effect	Long term	79 µg/cm^2
General population	Oral	Systemic effect	Long term	15 mg/kg/day

PNEC

Fresh water	Marine water	Intermittent releases		Sewage Treatment Plant (STP)
		Fresh water	Marine water	
0.24 mg/l	0.024 mg/l	0.071 mg/l	not given	10 g/l

PNEC

Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators
0.917 mg/kg	0.092 mg/kg	no effect	7.5 mg/kg	no effect

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts CAS: 68411-30-3

DNEL

Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	7.6 mg/m^3
Workers	Dermal	Systemic effect	Long term	119 mg/kg/day
General population	Inhalation	Systemic effect	Long term	1.3 mg/m^3
General population	Dermal	Systemic effect	Long term	42.5 mg/kg/day
General population	Oral	Systemic effect	Long term	0.425 mg/kg/day

PNEC

Fresh water	Marine water	Intermittent releases		Sewage Treatment Plant (STP)
		Fresh water	Marine water	
0.268 mg/l	0.027 mg/l	0.017 mg/l	not given	3.43 mg/l

PNEC

Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators
8.1 mg/l	6.8 mg/kg	no effect	35 mg/kg	no effect

Sodium hydroxide CAS: 1310-73-2

DNEL

Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Local effect	Long term	1 mg/m^3
General population	Inhalation	Local effect	Long term	1 mg/m^3

PNEC - not yet available

Amines, C12-14 (even numbered) -alkyldimethyl, N-oxides CAS: 308062-28-4

DNEL

Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	6.2 mg/m^3
Workers	Dermal	Systemic effect	Long term	11 mg/kg/day

General population	Inhalation	Systemic effect	Long term	1.53 mg/m^3
General population	Dermal	Systemic effect	Long term	5.5 mg/kg/day
General population	Oral	Systemic effect	Long term	0.44 mg/kg/day

PNEC

Fresh water	Marine water	Intermittent releases		Sewage Treatment Plant (STP)
		Fresh water	Marine water	
0.034 mg/l	0.003 mg/l	0.034 mg/l	not given	24 mg/l

PNEC

Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators
5.24 mg/l	0.524 mg/kg	no effect	1.02 mg/kg	11.1 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
3.73 mg/kg	0.75 mg/kg	not effect	2.7 mg/kg	26.7 mg/kg food

(R)-p-Mentha-1,8-diene CAS: 5989-27-5

DNEL

Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	66.7 mg/m^3
Workers	Dermal	Systemic effect	Long term	9.5 mg/kg/day
General population	Inhalation	Systemic effect	Long term	16.6 mg/m^3
General population	Dermal	Systemic effect	Long term	4.8 mg/kg/day
General population	Oral	Systemic effect	Long term	4.8 mg/kg/day

PNEC

Fresh water	Marine water	Intermittent releases		Sewage Treatment Plant (STP)
		Fresh water	Marine water	
14 µg/l	1.4 µg/l	not given	not given	1.8 mg/l

PNEC

Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators
3.85 mg/l	0.385 mg/kg	not effect	0.763 mg/kg	133 mg/kg food

Linalool CAS: 78-70-6

DNEL

Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	24.58 mg/m^3
Workers	Dermal	Systemic effect	Long term	3.5 mg/kg/day
Workers	Dermal	Local effect	Long term	3 mg/cm²
Workers	Dermal	Local effect	Acute/short term	3 mg/cm²
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/cm²
General population	Dermal	Local effect	Acute/short term	1.5 mg/cm²
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

Hexyl salicylate CAS: 6259-76-3

DNEL

Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	1.7 mg/m^3
Workers	Dermal	Systemic effect	Long term	6.4 mg/kg/day
Workers	Dermal	Local effect	Long term	885 µg/cm^2
Workers	Dermal	Local effect	Acute/short term	885 µg/cm^2
General population	Inhalation	Systemic effect	Long term	0.4 mg/m^3
General population	Dermal	Systemic effect	Long term	3.2 mg/kg/day
General population	Dermal	Local effect	Long term	442.5 µg/cm^2
General population	Dermal	Local effect	Acute/short term	442.5 µg/cm^2

General population	Oral	Systemic effect	Long term	0.3 mg/kg/day

PNEC

Fresh water	Marine water	Intermittent releases		Sewage Treatment Plant (STP)
		Fresh water	Marine water	
0 mg/l	0 mg/l	0.004 mg/l	not given	10 mg/l

PNEC

Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators
0.272 mg/kg	0.027 mg/kg	not given	0.054 mg/kg	not given

(E)-2-Benzylidenoctanal CAS: 165184-98-5

DNEL

Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	0.078 mg/m^3
Workers	Inhalation	Local effect	Acute/short term	6.28 mg/m^3
Workers	Dermal	Systemic effect	Long term	18.2 mg/kg/day
Workers	Dermal	Local effect	Long term	525 µg/cm^2
Workers	Dermal	Local effect	Acute/short term	525 µg/cm^2
General population	Inhalation	Systemic effect	Long term	0.019 mg/m^3
General population	Inhalation	Local effect	Acute/short term	4.71 mg/m^3
General population	Dermal	Systemic effect	Long term	9.11 mg/kg/day
General population	Dermal	Local effect	Long term	78.7 µg/cm^2
General population	Dermal	Local effect	Acute/short term	78.7 µg/cm^2
General population	Oral	Systemic effect	Long term	0.056 mg/kg/day

PNEC

Fresh water	Marine water	Intermittent releases		Sewage Treatment Plant (STP)
		Fresh water	Marine water	
0.001 mg/l	0 mg/l	0.002 mg/l	not given	10 mg/l

PNEC

Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators
3.2 mg/kg	0.064 mg/kg	no effect	0.398 mg/kg	6.6 mg/kg food

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 glasses or face shield (EN 166, EN 149+A1).

Skin protection - hand protection

Wear protective gloves (EN 374-1, EN 374-2).

Recommended gloves material:

nitrile rubber, breakthrough time: ≥ 30 min., glove thickness: ≥ 0.4 mm

Viton, breakthrough time: ≥ 480 min., glove thickness: ≥ 0.7 mm

butyl rubber, breakthrough time: ≥ 480 min., glove thickness: ≥ 0.7 mm

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

Suitable protective working clothing and protective footwear.

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	Light yellow.
Odour	Characteristic.
Melting point/freezing point	Not determined.
Boiling point or initial boiling point and boiling range	82 °C.
Flammability	Not determined.
Lower explosion limit	Not determined.
Upper explosion limit	Not determined.
Flash point	25 °C.
Auto-ignition temperature	Not determined.
Decomposition temperature	Not determined, the mixture does not contain self-reactive substances or organic peroxides or other substances which may decompose.

pH	> 12 (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	Miscible.
Partition coefficient n-octanol/water (log value)	Does not apply to mixture.
Vapour pressure	43 hPa.
Density and/or relative density	D_4^{20} = 1.08.
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.
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.
2-Butoxyethanol	CAS: 111-76-2
Physical state	Liquid.
Colour	Colorless.
Odour	Etheric.

Melting point/freezing point	-74.8 °C (literature).
Boiling point or initial boiling point and boiling range	173.5 °C (IP123/93).
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	67 °C (DIN 51758).
Auto-ignition temperature	230 °C (literature).
Decomposition temperature	Not determined, it is not a self-reactive substance or an organic peroxide or a substance that may decompose.
pH	Not determined.
Kinematic viscosity	Not determined, it is not a hydrocarbon or a chlorinated hydrocarbon.
Solubility	900 g/l (20 °C, pH = 7, literature).
Partition coefficient n-octanol/water (log value)	log Pow = 0.81 (25 °C, pH = 7, shake-flask method).
Vapour pressure	0.8 hPa (20 °C, literature).
Density and/or relative density	900 kg/m^3 (20 °C, DIN 51 757).
Relative vapour density	Not determined.
Particle characteristics	Does not apply to liquid.

Alcohols, C12-14, ethoxylated, sulfates, sodium salts	CAS: 68891-38-3
Physical state	Solid.
Colour	Yellowish.
Odour	Rancid.
Melting point/freezing point	> 300 °C (ASTM E737-76).
Boiling point or initial boiling point and boiling range	Not determined, the substance has a melting point higher than 300 ° C.
Flammability	The substance is not classified as flammable solid (EU method A.10)
Lower explosion limit	Does not apply to solid.
Upper explosion limit	Does not apply to solid.
Flash point	Does not apply to solid.
Auto-ignition temperature	250 °C (EU method A.16)
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	Does not apply to solid.

Solubility	280 g/l (20 °C, pH = 6.8, literature).
Partition coefficient n-octanol/water (log value)	log Pow = 0.3 (23 °C, pH = 6.1, OECD 123).
Vapour pressure	Not determined, the substance has melting point higher than 300 °C.
Density and/or relative density	1.08 g/cm^3 (22 °C, OECD 109).
Relative vapour density	Does not apply to solid.
Particle characteristics	Not determined.

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	CAS: 68411-30-3
Physical state	Solid.
Colour	Not determined.
Odour	Not determined.
Melting point/freezing point	> 350 °C (ISO 1218)
Boiling point or initial boiling point and boiling range	> 400 °C (ASTM E 737-76)
Flammability	The substance is not classified as flammable (EU method A.10)
Lower explosion limit	Does not apply to solid.
Upper explosion limit	Does not apply to solid.
Flash point	Does not apply to solid.
Auto-ignition temperature	Does not apply to solid.
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	Does not apply to solid.
Solubility	250 g/l (20 °C)
Partition coefficient n-octanol/water (log value)	1.4 (23 °C, pH = 6.1, OECD 123)
Vapour pressure	Not determined, the substance has melting point higher than 300 °C.
Density and/or relative density	D_4^{20} = 0.776 (OECD 109).
Relative vapour density	Does not apply to solid.
Particle characteristics	Not determined.

Sodium hydroxide	CAS: 1310-73-2
Physical state	Solid.
Colour	White.
Odour	Odourless.
Melting point/freezing point	323 °C (literature).
Boiling point or initial boiling point and boiling range	1 388 °C (literature).

Flammability	The substance is not classified as flammable, pyrophoric or emit flammable gases under standard conditions.
Lower explosion limit	Does not apply to solid.
Upper explosion limit	Does not apply to solid.
Flash point	Does not apply to solid.
Auto-ignition temperature	Does not apply to solid.
Decomposition temperature	Not determined, it is not a self-reactive substance or an organic peroxide or a substance that may decompose.
pH	Not determined, strong alkaline substance.
Kinematic viscosity	Does not apply to solid.
Solubility	100 g/100 g H_2O (25 °C, literature).
Partition coefficient n-octanol/water (log value)	Not determined, it is an inorganic substance.
Vapour pressure	Not determined, the substance has melting point higher than 300 °C.
Density and/or relative density	2.13 g/cm^3 (20 °C, literature).
Relative vapour density	Does not apply to solid.
Particle characteristics	Not determined, solid NaOH is in the form of large particles (flakes).

Amines, C12-14 (even numbered) -alkyldimethyl, N-oxides CAS: 308062-28-4

Physical state	Solid.
Colour	White.
Odour	Not determined.
Melting point/freezing point	125 - 134 °C (literature).
Boiling point or initial boiling point and boiling range	Not determined.
Flammability	The substance is not classified as flammable (EU method A.10).
Lower explosion limit	Does not apply to solid.
Upper explosion limit	Does not apply to solid.
Flash point	Does not apply to solid.
Auto-ignition temperature	Does not apply to solid.
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	Does not apply to solid.
Solubility	409.5 g/l (literature).
Partition coefficient n-octanol/water (log value)	log Pow = 1.85 (C12, calculation). log Pow = 2.69 (C14, calculation).

Vapour pressure	ca. 0 Pa (25 °C, calculation).
Density and/or relative density	D_4^{23} = 0.716 (EU method A.3).
Relative vapour density	Does not apply to solid.
Particle characteristics	Not determined.

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
Physical state	Liquid.
Colour	Clear.
Odour	Fragrance like.
Melting point/freezing point	< -20 °C (OECD 102).
Boiling point or initial boiling point and boiling range	290.4 °C (OECD 103).
Flammability	The substance is not classified as flammable, pyrophoric or emit flammable gases under standard conditions.
Lower explosion limit	Not determined.
Upper explosion limit	Not determined.
Flash point	134 °C (EU method A.9).
Auto-ignition temperature	260 °C (EU method A.15).
Decomposition temperature	Not determined, it is not a self-reactive substance or an organic peroxide or a substance that may decompose.
pH	Not determined.
Kinematic viscosity	Not determined, it is not a hydrocarbon or a chlorinated hydrocarbon.
Solubility	2.68 mg/l (20 °C, pH = 6.59 - 6.69, OECD 105).
Partition coefficient n-octanol/water (log value)	log Pow = 5.6 (30 °C, OECD 117).
Vapour pressure	0.233 Pa (23 °C, OECD 104).
Density and/or relative density	D_4^{20} = 0.964 (OECD 109).
Relative vapour density	Not determined.
Particle characteristics	Does not apply to liquid.

(R)-p-Mentha-1,8-diene	CAS: 5989-27-5
Physical state	Liquid.
Colour	Colourless to yellowish.
Odour	Not determined.
Melting point/freezing point	199.5 K (OECD 102).
Boiling point or initial boiling point and boiling range	450.6 K (literature).
Flammability	The substance is classified as flammable liquid.

Lower explosion limit	Not determined.
Upper explosion limit	Not determined.
Flash point	51 °C (EU method A.9).
Auto-ignition temperature	245 °C (EU method A.15).
Decomposition temperature	Not determined, it is not a self-reactive substance or an organic peroxide or a substance that may decompose.
pH	Not determined.
Kinematic viscosity	ca. 1 mm^2/s (calculated from dynamic viscosity = 0.8462 mPa.s, OECD 114)
Solubility	12.3 mg/l (298.15 K, pH = 7, OECD 105).
Partition coefficient n-octanol/water (log value)	log Pow = -4.38 (37 °C, pH = 7.2, OECD 117).
Vapour pressure	200 Pa (298 K, literature).
Density and/or relative density	D_4^{20} = 0.844 (OECD 109).
Relative vapour density	Not determined.
Particle characteristics	Does not apply to liquid.
Linalool	CAS: 78-70-6
Physical state	Liquid.
Colour	Colourless.
Odour	Flower.
Melting point/freezing point	< -74 °C (OECD 102).
Boiling point or initial boiling point and boiling range	196.3 °C (OECD 103).
Flammability	The substance is not classified as flammable, pyrophoric or emit flammable gases under standard conditions.
Lower explosion limit	Not determined.
Upper explosion limit	Not determined.
Flash point	77.2 °C (ISO 2719)
Auto-ignition temperature	260 °C (EU method A.15)
Decomposition temperature	Not determined, it is not a self-reactive substance or an organic peroxide or a substance that may decompose.
pH	Not determined.
Kinematic viscosity	Not determined, it is not a hydrocarbon or a chlorinated hydrocarbon.
Solubility	10.11 mmol/l (25 °C, pH = 7, OECD 105).
Partition coefficient n-octanol/water (log value)	2.84 (25 °C, pH = 7, OECD 117).
Vapour pressure	27 Pa (25 °C, OECD 104).
Density and/or relative density	0.86 g/cm^3 (20 °C, OECD 109) .

Relative vapour density	Not determined.
Particle characteristics	Does not apply to liquid.
Hexyl salicylate	CAS: 6259-76-3
Physical state	Liquid.
Colour	Colourless.
Odour	Not determined.
Melting point/freezing point	< 269 K (OECD 102).
Boiling point or initial boiling point and boiling range	297.84 °C (OECD 103).
Flammability	The substance is not classified as flammable, pyrophoric or emit flammable gases under standard conditions.
Lower explosion limit	Not determined.
Upper explosion limit	Not determined.
Flash point	151 °C (EU method A.9).
Auto-ignition temperature	ca. 251 °C (EU method A.15).
Decomposition temperature	Not determined, it is not a self-reactive substance or an organic peroxide or a substance that may decompose.
pH	Not determined.
Kinematic viscosity	Not specified, it is not a hydrocarbon or a chlorinated hydrocarbon.
Solubility	2 mg/l (23 °C, pH = ca. 7, OECD 105).
Partition coefficient n-octanol/water (log value)	5.5 (30 °C, pH = ca. 7, OECD 117).
Vapour pressure	$7.7*10^{-5}$ kPa (23 °C).
Density and/or relative density	1.038 g/cm^3 (20 °C).
Relative vapour density	Not determined.
(E)-2-Benzylidenoctanal	CAS: 165184-98-5
Physical state	Liquid.
Colour	Yellow.
Odour	Jasmine.
Melting point/freezing point	ca. 17.6 °C (OECD 102).
Boiling point or initial boiling point and boiling range	ca. 310.8 °C (OECD 103).
Flammability	The substance is not classified as flammable, pyrophoric or emit flammable gases under standard conditions.
Lower explosion limit	Not determined.
Upper explosion limit	Not determined.
Flash point	ca. 151 °C.

Auto-ignition temperature	ca. 235.5 °C (EU method A.15).
Decomposition temperature	Not determined, it is not a self-reactive substance or an organic peroxide or a substance that may decompose.
pH	Not determined.
Kinematic viscosity	Not determined, it is not a hydrocarbon or a chlorinated hydrocarbon.
Solubility	1.57 - 1.68 mg/l (20 °C, pH = 4 – 7, OECD 105).
Partition coefficient n-octanol/water (log value)	ca. 5.3 (24 °C, OECD 117).
Vapour pressure	0.068 Pa (25 °C, OECD 104).
Density and/or relative density	ca. 0.95 g/cm^3 (20 °C, OECD 109).
Relative vapour density	Not determined.
Particle characteristics	Does not apply to liquid.

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Mixture

Explosives

Data for the mixture are not available.

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

Flammable gases

It is not gas.

Aerosols

It is not aerosol.

Oxidising gases

It is not gas.

Gases under pressure

It is not gas.

Flammable liquids

The mixture is classified as flammable liquid category 3 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 mixture are not available.

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

Pyrophoric liquids

Data for the mixture are not available.

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

Pyrophoric solids

It is not solid.

Self-heating substances and mixtures

Data for the mixture are not available.

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

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

Data for the mixture are not available.

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

Oxidising liquids

Data for the mixture are not available.

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

Oxidizing solids

It is not solid.

Organic peroxides

Data for the mixture are not available.

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

Corrosive to metals

Data for the mixture are not available.

The mixture is not classified as corrosive to metal category 1, due to the low sodium hydroxide content.

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
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.

2-Butoxyethanol	CAS: 111-76-2
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 soluble in water and forms a stable mixture with it.	
Oxidising liquids	
Data for the substance are not available. It is an organic substance that does not contain oxygen, fluorine or chlorine, or these elements are chemically bounded only to carbon or hydrogen.	
Oxidizing solids	
It is not solid.	
Organic peroxides	

Data for the substance are not available.
The substance does not contain a bivalent group -O-O- with at least one organic radical.

Corrosive to metals

Data for the substance are not available.
The substance is not classified as corrosive to metal.

Desensitised explosives

Data for the substance are not available.
The substance does not contain chemical groups associated with explosive properties.

Alcohols, C12-14, ethoxylated, sulfates, sodium salts CAS: 68891-38-3

Explosives

Data for the substance are not available.
The substance does not contain chemical groups associated with explosive properties.

Flammable gases

It is not gas.

Aerosols

It is not aerosol.

Oxidising gases

It is not gas.

Gases under pressure

It is not gas.

Flammable liquids

It is not liquid.

Flammable solids

The substance is not classified as flammable solid, burning time > 2 400 s (EU method A.10).

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

It is not liquid.

Pyrophoric solids

Data for the substance are not available.
The substance is stable in air, there is no spontaneous ignition.

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

It is not liquid.

Oxidizing solids

Data for the substance are not available.
It is an organic substance does not contain chemical groups associated with oxidising properties.

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.

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts CAS: 68411-30-3

Explosives

Data for the substance are not available.
The substance does not contain chemical groups associated with explosive properties.

Flammable gases

It is not gas.

Aerosols

It is not aerosol.

Oxidising gases

It is not gas.

Gases under pressure

It is not gas.

Flammable liquids

It is not liquid.

Flammable solids

The substance is not classified as flammable solid (EU method A.10).

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

It is not liquid.

Pyrophoric solids
Data for the substance are not available. The substance is stable in air, there is no spontaneous ignition.
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 substance is soluble in water and forms a stable mixture with it.
Oxidising liquids
It is not liquid.
Oxidizing solids
Data for the substance are not available. It is an organic substance does not contain chemical groups associated with oxidising properties.
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.
Sodium hydroxide CAS: 1310-73-2
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
It is not liquid.
Flammable solids

Data for the substance are not available.
The substance is not classified as flammable 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

It is not liquid.

Pyrophoric solids

Data for the substance are not available.
The substance is stable in air, there is no spontaneous ignition.

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

Oxidising liquids

It is not liquid.

Oxidising solids

Data for the substance are not available.
The substance does not contain chemical groups associated with oxidising properties.

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 classified as corrosive to metal category 1.

Desensitised explosives

Data for the substance are not available.
The substance does not contain chemical groups associated with explosive properties.

Amines, C12-14 (even numbered) -alkyldimethyl, N-oxides CAS: 308062-28-4

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

It is not liquid.

Flammable solids

The substance is not classified as flammable solid (EU method A.10).

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

It is not liquid.

Pyrophoric solids

Data for the substance are not available.

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

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 soluble in water and forms a stable mixture with it.

Oxidising liquids

It is not liquid.

Oxidizing solids

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.

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 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

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.
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.
Self-heating substances and mixtures
Data for the substance are not available. The substance is not classified as self-heating.
Substances and mixtures, which emit flammable gases in contact with water

Data for the substance are not available.
The chemical structure of the substance does not contain metals or metalloids.
The substance is miscible with water and forms a stable mixture with it.

Oxidising liquids

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

Oxidizing solids

It is not solid.

Organic peroxides

Data for the substance are not available.
The substance does not contain a bivalent group -O-O- with at least one organic radical.

Corrosive to metals

Data for the substance are not available.
The substance is not classified as corrosive to metal.

Desensitised explosives

Data for the substance are not available.
The substance does not contain chemical groups associated with explosive properties.

Linalool CAS: 78-70-6

Explosives

Data for the substance are not available.
The substance does not contain chemical groups associated with explosive properties.

Flammable gases

It is not gas.

Aerosols

It is not aerosol.

Oxidising gases

It is not gas.

Gases under pressure

It is not gas.

Flammable liquids

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

Flammable solids

It is not solid.

Self-reactive substances and mixtures

Data for the substance are not available.
The substance does not contain chemical groups associated with explosive or self-reactive properties.

Pyrophoric liquids

Data for the substance are not available.
The substance is stable in air, there is no spontaneous ignition.

Pyrophoric solids

It is not solid.

Self-heating substances and mixtures

Data for the substance are not available.
The substance is not classified as self-heating.

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

Data for the substance are not available.
The chemical structure of the substance does not contain metals or metalloids.
The substance is miscible with water and forms a stable mixture with it.

Oxidising liquids

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

Oxidizing solids

It is not solid.

Organic peroxides

Data for the substance are not available.
The substance does not contain a bivalent group -O-O- with at least one organic radical.

Corrosive to metals

Data for the substance are not available.
The substance is not classified as corrosive to metal.

Desensitised explosives

Data for the substance are not available.
The substance does not contain chemical groups associated with explosive properties.

Hexyl salicylate CAS: 6259-76-3

Explosives

Data for the substance are not available.
The substance does not contain chemical groups associated with explosive properties.

Flammable gases

It is not gas.

Aerosols

It is not aerosol.

Oxidising gases

It is not gas.

Gases under pressure

It is not gas.

Flammable liquids

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

Flammable solids

It is not solid.

Self-reactive substances and mixtures

Data for the substance are not available.

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

Pyrophoric liquids

Data for the substance are not available.

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

Pyrophoric solids

It is not solid.

Self-heating substances and mixtures

Data for the substance are not available.

The substance is not classified as self-heating.

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

Data for the substance are not available.

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

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

Oxidising liquids

Data for the substance are not available.

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

Oxidizing solids

It is not solid.

Organic peroxides

Data for the substance are not available.

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

Corrosive to metals

Data for the substance are not available.

The substance is not classified as corrosive to metal.

Desensitised explosives

Data for the substance are not available.

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

(E)-2-Benzylidenoctanal CAS: 165184-98-5

Explosives

Data for the substance are not available.

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

Flammable gases

It is not gas.

Aerosols
It is not aerosol.
Oxidising gases
It is not gas.
Gases under pressure
It is not gas.
Flammable liquids
The substance is not classified as flammable liquid according to the value of the flash point and boiling point.
Flammable solids
It is not solid.
Self-reactive substances and mixtures
Data for the substance are not available. The substance does not contain chemical groups associated with explosive or self-reactive properties.
Pyrophoric liquids
Data for the substance are not available. The substance is stable in air, there is no spontaneous ignition.
Pyrophoric solids
It is not solid.
Self-heating substances and mixtures
Data for the substance are not available. The substance is not classified as self-heating.
Substances and mixtures, which emit flammable gases in contact with water
Data for the substance are not available. The chemical structure of the substance does not contain metals or metalloids. The substance is miscible with water and forms a stable mixture with it.
Oxidising liquids
Data for the substance are not available. It is an organic substance that does not contain oxygen, fluorine or chlorine, or these elements are chemically bounded only to carbon or hydrogen.
Oxidizing solids
It is not solid.
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.
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.

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, sulphur oxides, hydrogen sulphide, nitrogen oxides, ammonia, chlorine oxides, hydrogen chloride 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 is not classified by the additive formula. $ATE_{mixture}$ > 3 789 mg/kg.
Dermal	Data for the mixture are not available. $ATE_{mixture}$ > 2 000 mg/kg (estimate, low concentration of substance classified as toxic dermal route of exposure).
Inhalation	Data for the mixture are not available. The mixture is not classified by the additive formula. $ATE_{mixture}$ > 20 mg/l (vapour).

Skin corrosion/irritation

Data for the mixture are not available.

The mixture is classified as corrosive for skin in category 1 based on the pH value and the content of sodium hydroxide and surfactants.

Serious eye damage/irritation

Data for the mixture are not available.

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

Respiratory or skin sensitisation

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 Koavone, Reaction mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, (R)-p-Mentha-1,8-diene, Linalool, Hexyl salicylate, (E)-2-Benzylideneoctanal, Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). 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. LD_{50} = 5 840 mg/kg (rat, OECD 401).
Dermal	Based on available data, the classification criteria are not met. LD_{50} = 16.4 ml/kg (12 792 mg/kg at a density of 0.78 g/cm^3, rabbit, OECD 402).
Inhalation	Based on available data, the classification criteria are not met. LC_{50} > 10 000 ppm (vapour, 6 h, OECD 403).

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 mm^2/s or less at 40 °C.

2-Butoxyethanol CAS: 111-76-2

Acute toxicity

Oral	The substance is classified in category 4. LD_{50} = 1 414 mg/kg (rat, OECD 401). ATE = 1 200 mg/kg (according to harmonized classification).
Dermal	Based on available data, the classification criteria are not met. LD_{50} > 2 000 mg/kg (rabbit, OECD 402).
Inhalation	The substance is classified in category 3 according to harmonized classification. ATE = 3 mg/l (for calculation by additive formula, vapour).

Skin corrosion/irritation

The substance is classified as skin irritant.

Mean erythema score = 1.7 (not fully reversible after 14 days) and edema = 0.13 (not fully reversible after 14 days) (rabbit, EU method B.4).

Serious eye damage/irritation

The substance is classified as eye irritant.

Mean score of corneal opacity = 0.89 (fully reversible after 21 days), iritis = 0.56 (fully reversible after 7 days), conjunctival redness = 2.6 (fully reversible after 21 days) = 1.8 (fully reversible after 14 days) (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 476).

Carcinogenicity

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

NOAEC = 125 ppm (liver hemangiocarcomas, rat, male, vapour, OECD 451).

NOAEC = 125 ppm (forestomach tumors, rat, female, vapour, OECD 451).

Reproductive toxicity

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

NOAEL = 720 mg/kg/day (body weight loss, mortality, reproductive performance, mouse, oral, generation P0).

LOAEL = 720 mg/kg/day (water consumption and compound intake, mouse, oral, generation P0).

NOAEL = 720 mg/kg/day (pup weight, mouse, orally, generation F1).

NOAEL = 720 mg/kg/day (no effect, mouse, oral, generation F2).

STOT – single exposure

Data for the substance are not available.

STOT – repeated exposure

Based on available data, the classification criteria are not met.
NOAEL < 69 mg/kg/day (histopathology, rat, male, oral, 90 days, OECD 408).
NOAEL < 82 mg/kg/day (histopathology and hematology, rat, female, 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.

Alcohols, C12-14, ethoxylated, sulfates, sodium salts CAS: 68891-38-3

Acute toxicity

Oral	Based on available data, the classification criteria are not met. LD_{50} = 4 100 mg/kg (rat, OECD 401).
Dermal	Based on available data, the classification criteria are not met. LD_{50} > 2 000 mg/kg (rabbit, OECD 402).
Inhalation	Data for the substance are not available.

Skin corrosion/irritation

The substance is classified as skin irritant.
Mean erythema score = 3.2 and oedema = 3.2 (fully reversible) (rabbit, 72 hrs., OECD 404).

Serious eye damage/irritation

The substance is classified as seriously damaging to the eyes.
Mean score of corneal opacity = 1.3 (not fully reversible after 21 days), iritis = 0.8 (not fully reversible after 21 days), conjunctival redness = 3 (fully reversible), conjunctival edema = 1 (fully reversible) (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

Data for the substance are not available.

Reproductive toxicity

Based on available data, the classification criteria are not met.
NOAEL = 300 mg/kg/day (systemic effects, rat, oral, generation P0, OECD 416).
NOAEL = 300 mg/kg/day (reproduction, rat, oral, generation P0, OECD 416).
NOAEL = 300 mg/kg/day (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 > 225 mg/kg/day (systemic toxicity, 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.

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts CAS: 68411-30-3

Acute toxicity

Oral The substance is classified in category 4.

LD_{50} = 1 080 mg/kg (rat, female, OECD 401).

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

LD_{50} > 2 000 mg/kg (rabbit, OECD 402).

Inhalation Data for the substance are not available.

Skin corrosion/irritation

The substance is classified as skin irritant.

Primary dermal irritation index PDII = 2.17 (max. 4, not fully reversible after 14 days) (rabbit, 72 hrs., OECD 404).

Serious eye damage/irritation

The substance is classified as seriously damaging to the eyes.

Overall irritation score = 1.75 (max. 4, not rinsed, not fully reversible after 14 days), 1 (max. 3, rinse after 4 seconds, reversible after 7 days), 1.06 (max. 2, rinse after 30 seconds, reversible after 14 days) (rabbit, 72 hrs., 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 473, OECD 476).

Carcinogenicity

Data for the substance are not available.

Reproductive toxicity

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

NOAEL = 350 mg/kg/day (rat, oral, generation P0, literature).

NOAEL = 350 mg/kg/day (rat, oral, generation F1, literature).

NOAEL = 350 mg/kg/day (rat, oral, generation F2, literature).

STOT – single exposure

Data for the substance are not available.

STOT – repeated exposure

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

NOAEL = 85 mg/kg/day (rat, oral, literature).

LOAEL = 300 mg/kg/day (rat, oral, literature).

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.

Sodium hydroxide CAS: 1310-73-2

Acute toxicity

Oral	Data for the substance are not available.
Dermal	Data for the substance are not available.
Inhalation	Data for the substance are not available.

Skin corrosion/irritation

The substance is classified as skin corrosive category 1A.

Irritating to the skin at a concentration of 0.95 % by weight - intact skin - mean erythema score = 2 after 24 hours, 1.7 after 72 hours, 0.7 after 8 days (irreversible for 1/6 animals, scale on the skin) and edema = 0.3 after 24 h, 0 after 72 h, 0 after 8 d (fully reversible in 72 h), broken skin - mean erythema score = 2.3 after 24 h, 2 after 72 h, 2.7 after 8 d (irreversible for 1/6 animals, skin necrosis) and edema = 2 after 24 h, 0.3 after 72 h, 0 after 8 d (fully reversible in 8 days), primary dermal irritation index PDII = 2.7 (rabbit, Draize test).

Corrosive skin at a concentration of 4.98% by weight - intact skin - mean erythema score = 4 after 24 h, 4 after 72 h, 4 after 8 d (irreversible, skin necrosis) and edema = 2 after 24 h, 1 after 72 h , 1 after 8 days (irreversible for 8 days), broken skin - mean erythema score = 4 after 24 h, 4 after 72 h, 4 after 8 d (irreversible, skin necrosis) and edema = 2 after 24 h, after 72 hours, 1 after 8 days (irreversible for 8 days), primary dermal irritation index PDII = 5.6 (rabbit, Draize test).

Serious eye damage/irritation

The substance is classified as serious eye damage.

Mean corneal opacity > 2, conjunctival redness > 2.5 (2 wt.%, rabbit, 72 h, OECD 405).

Respiratory or skin sensitization

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

Not skin sensitising (human).

Germ cell mutagenicity

Data for the substance are not available.

Carcinogenicity

Data for the substance are not available.

Reproductive toxicity

Data for the substance are not available.

STOT – single exposure

Data for the substance are not available.

STOT – repeated exposure

Data for the substance are not available.

Aspiration hazard

The substance is not a hydrocarbon or a chlorinated hydrocarbon with a kinematic viscosity of 20.5 mm^2/s or less at 40 °C.

Amines, C12-14 (even numbered) -alkyldimethyl, N-oxides CAS: 308062-28-4

Acute toxicity

Oral	The substance is classified in category 4. LD_{50} = 1 064 mg/kg (rat, OECD 401).
Dermal	Based on available data, the classification criteria are not met. LD_{50} > 2 000 mg/kg (rabbit, OECD 402).
Inhalation	Data for the substance are not available.

Skin corrosion/irritation

The substance is classified as skin irritant.
Primary dermal irritation index PDII = 4 (max. 8, not fully reversible after 72 hours), mean erythema score = 4 (not fully reversible after 72 hours), mean oedema score = 0 (rabbit, 72 hrs., OECD 404).

Serious eye damage/irritation

The substance is classified as seriously damaging to the eyes.
Not reversible effect on eyes after 35 days (rabbit, 72 hrs., 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, EU method B.17).

Carcinogenicity

Based on available data, the classification criteria are not met.
NOEL = 0.2 % in food (rat, oral, OECD 451).

Reproductive toxicity

Based on available data, the classification criteria are not met.
NOAEL = 100 mg/kg/day (reproductive and development toxicity, rat, oral, generation P0, OECD 422).

STOT – single exposure

Data for the substance are not available.

STOT – repeated exposure

Based on available data, the classification criteria are not met.
NOAEL = 88 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.

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

Acute toxicity

Oral	Based on available data, the classification criteria are not met LD_{50} > 5 000 mg/kg (rat).
Dermal	Based on available data, the classification criteria are not met. LD_{50} > 5 000 mg/kg (rat).

Inhalation Data for the substance are not available.

Skin corrosion/irritation

The substance is 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

The substance is classified as 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 mm^2/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

LD_{50} > 2 000 mg/kg (rat, female, OECD 423).

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

LD_{50} > 5 000 mg/kg (rabbit, OECD 402).

Inhalation Data for the substance are not available.

Skin corrosion/irritation

The substance is classified as skin irritant.

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

Serious eye damage/irritation

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

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

Respiratory or skin sensitisation

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

Germ cell mutagenicity

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

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

Carcinogenicity

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

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

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

Reproductive toxicity

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

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

STOT – single exposure

Data for the substance are not available.

STOT – repeated exposure

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

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

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

Aspiration hazard

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

Linalool CAS: 78-70-6

Acute toxicity

Oral	The substance is classified in category 4 according to harmonized classification. LD_{50} = 2 790 mg/kg (rat, OECD 401).
Dermal	Based on available data, the classification criteria are not met. LD_{50} = 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.

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 mm^2/s or less at 40 °C.

Hexyl salicylate CAS: 6259-76-3

Acute toxicity

Oral	Based on available data, the classification criteria are not met. LD_{50} > 5 000 mg/kg (rat).
Dermal	Based on available data, the classification criteria are not met. LD_{50} > 5 000 mg/kg (rabbit).
Inhalation	Data for the substance are not available.

Skin corrosion/irritation

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

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

Serious eye damage/irritation

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

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

Respiratory or skin sensitisation

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

Germ cell mutagenicity

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

Negative (OECD 471).

Carcinogenicity

Data for the substance are not available.

Reproductive toxicity

Data for the substance are not available.

STOT – single exposure

Data for the substance are not available.

STOT – repeated exposure

Data for the substance are not available.

Aspiration hazard

The substance is not a hydrocarbon or a chlorinated hydrocarbon with a kinematic viscosity of 20.5 mm^2/s or less at 40 °C.

(E)-2-Benzylidenoctanal CAS: 165184-98-5

Acute toxicity

Oral	Based on available data, the classification criteria are not met. LD_{50} = ca. 3 100 mg/kg (rat, male, OECD 401).
Dermal	Based on available data, the classification criteria are not met. LD_{50} > 3 000 mg/kg (rabbit, female, OECD 402).
Inhalation	Based on available data, the classification criteria are not met. LC_{50} > 5 mg/l (vapour, rat, 4 hrs., no death is observed, OECD 403).

Skin corrosion/irritation

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

Mean erythema score = 2 and oedema = 1.56 (fully reversible after 11 days, rabbit, 72 hrs., EU method B.4).

Serious eye damage/irritation

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

Mean score of corneal opacity = 0, iritis = 0, conjunctival redness = 0.33 (fully reversible after 2 days), conjunctival oedema = 0 (rabbit, 72 hrs., EU method B.5).

Respiratory or skin sensitisation

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

Germ cell mutagenicity

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

Negative (OECD 471, OECD 476).

Carcinogenicity

Data for the substance are not available.

Reproductive toxicity

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

NOAEL ≥ 100 mg/kg/day (rat, oral, generation P0, OECD 421).

NOAEL ≥ 100 mg/kg/day (rat, oral, F1 generation, OECD 421).

STOT – single exposure

Data for the substance are not available.

STOT – repeated exposure

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

NOAEL ≥ 100 mg/kg/day (rat, oral, OECD 421).

NOAEL = 125 mg/kg/day (systemic effect, rat, female, dermal, 90 d., OECD 411).

Aspiration hazard

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.

11.2. Information on other hazards

Mixture does not contain substance(s) meets 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

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	∑ < 3

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
∑	< 2	< 20	< 235	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

2-Butoxyethanol CAS: 111-76-2

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

Fish

LC_{50}, 96 hrs., Oncorhynchus mykiss: 1 474 (mortality, OECD 203).
NOEC, 21 d., Brachydanio rerio: > 100 mg/l (markers for endocrine disruptive effects, OECD 204).

Crustaceans

EC_{50}, 48 hrs., Daphnia Magna: 1 550 mg/l (mobility, OECD 202).
EC_{10}, 21 d., Daphnia Magna: 1 800 mg/l (mortality, OECD 202).
NOEC, 21 d., Daphnia Magna: 100 mg/l (reproduction, OECD 202).

Algae

EC_{50}, 72 hrs., Selenastrum capricornutum: 911 mg/l (biomass, OECD 201).
EC_{50}, 72 hrs., Selenastrum capricornutum: 1 840 mg/l (growth rate, OECD 201).
EC_{10}, 72 hrs., Selenastrum capricornutum: 308 mg/l (biomass, OECD 201).
EC_{10}, 72 hrs., Selenastrum capricornutum: 679 mg/l (growth rate, OECD 201).
NOEC, 72 hrs., Selenastrum capricornutum: 88 mg/l (biomass, OECD 201).
NOEC, 72 hrs., Selenastrum capricornutum: 286 mg/l (growth rate, OECD 201).

Alcohols, C12-14, ethoxylated, sulfates, sodium salts CAS: 68891-38-3

The substance is classified as Aquatic Chronic 3; H412.

Fish

LC_{50}, 96 hrs., Danio rerio: 7.1 mg/l (mortality, OECD 203).
NOEC, 28 d., Oncorhynchus mykiss: 0.14 mg/l (mortality and sublethal effects, OECD 204).

Crustaceans

EC_{50}, 48 hrs., Daphnia Magna: 7.4 mg/l (mobility, OECD 202).
NOEC, 21 d., Daphnia Magna: 0.27 mg/l (survival and reproduction, OECD 211).

Algae

EC_{50}, 72 hrs., Desmodesmus subspicatus: 27.7 mg/l (growth rate, OECD 201).
EC_{10}, 72 hrs., Desmodesmus subspicatus: 4.4 mg/l (growth rate, OECD 201).
NOEC, 72 hrs., Desmodesmus subspicatus: 0.95 mg/l (growth rate, OECD 201).

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts CAS: 68411-30-3

The substance is classified as Aquatic Chronic 3; H412.

Fish

LC_{50}, 96 hrs., Lepomis macrochirus: 1.67 mg/l (mortality).
NOEC, 28 d., Oncorhynchus mykiss: 0.23 mg/l (mortality, OECD 210).

Crustaceans

EC_{50}, 48 hrs., Daphnia Magna: 2.9 mg/l (mobility, OECD 202).
NOEC, 21 d., Daphnia Magna: 0.27 mg/l (survival and reproduction, OECD 211).

Algae

EC_{50}, 72 hrs., Pseudokirchneriella subcapitata: 235 mg/l (growth rate, OECD 201).
EC_{10}, 96 hrs., Pseudokirchneriella subcapitata: 13.1 mg/l (growth rate, OECD 201).

Sodium hydroxide CAS: 1310-73-2

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

Fish

LC_{50}, 48 hrs, Leuciscus idus: 189 mg/l (mortality).

Crustaceans

EC_{50}, 48 hrs, Ceriodaphnia sp.: 40.4 mg/l (immobility).

Algae

Data for the substance are not available.

Amines, C12-14 (even numbered) -alkyldimethyl, N-oxides CAS: 308062-28-4

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

Fish

LC_{50}, 96 hrs., Pimephales promelas: 344 mg/l (according to pH value, mortality).
NOEC, 15 d., Pimephales promelas: 23 mg/l (survival and mean length, EPA OPPTS 850.1500).

Crustaceans

EC_{50}, 48 hrs., Daphnia Magna: 3.1 mg/l (mobility, OECD 202).
NOEC, 21 d., Daphnia Magna: 0.7 mg/l (survival and reproduction, OECD 211).

Algae

EC_{50}, 72 hrs., Scenedesmus quadricauda: 0.266 mg/l (growth rate, OECD 201).
EC_{50}, 72 hrs., Scenedesmus quadricauda: 0.205 mg/l (biomass, OECD 201).
NOEC, 72 hrs., Scenedesmus quadricauda: 0.078 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 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

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

Fish

LC_{50}, 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

EC_{50}, 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 (lenght).
NOEC, 21 d., Daphnia Magna: 0.448 mg/l (mortality).

Algae

EC_{50}, 72 hrs., Desmodesmus subspicatus: > 2.6 mg/l (growth rate).
EC_{50}, 72 hrs., Desmodesmus subspicatus: > 2.6 mg/l (biomass).
NOEC, 72 hrs., Desmodesmus subspicatus: ≥ 2.6 mg/l (growth rate).

(R)-p-Mentha-1,8-diene CAS: 5989-27-5

The substance is classified as Aquatic Acute 1; H400 (M = 1) and Aquatic Chronic 3; H412.

Fish

LC_{50}, 96 hrs., Pimephales promelas: 720 µg/l (mortality, OECD 203).
EC_{50}, 96 hrs., Pimephales promelas: 688 µg/l (mobility, OECD 203).
NOEC, 8 d., Pimephales promelas: 0.37 mg/l (hatching rate, OECD 212).
NOEC, 8 d., Pimephales promelas: 0.19 mg/l (abnormal appearance and behaviour, OECD 212).
NOEC, 8 d., Pimephales promelas: 0.059 mg/l (length, OECD 212).

Crustaceans

EC_{50}, 48 hrs., Daphnia Magna: 0.307 mg/l (mobility, OECD 202).
NOEC, 21 d., Daphnia Magna: 80 µg/l (number of live offspring, OECD 211).

Algae

EC_{50}, 72 hrs., Desmodesmus subspicatus: 0.32 mg/l (growth rate, OECD 201).
EC_{10}, 72 hrs., Desmodesmus subspicatus: 0.174 mg/l (growth rate, OECD 201).

Linalool CAS: 78-70-6

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

Fish

LC_{50}, 96 hrs., Oncorhynchus mykiss: 27.8 mg/l (mortality, OECD 203).
NOEC, 96 hrs., Oncorhynchus mykiss: < 3.5 mg/l (mobility, behaviour, OECD 203).

Crustaceans

EC_{50}, 48 hrs., Daphnia Magna: 59 mg/l (mobility, OECD 202).
NOEC, 48 hrs., Daphnia Magna: 25 mg/l (reproduction, OECD 202).

Algae

EC_{50}, 72 hrs., Desmodesmus subspicatus: 156.7 mg/l (growth rate, DIN 38412 L 9).
EC_{50}, 72 hrs., Desmodesmus subspicatus: 88.3 mg/l (biomass, DIN 38412 L 9).
EC_{10}, 72 hrs., Desmodesmus subspicatus: 54.3 mg/l (growth rate, DIN 38412 L 9).
EC_{10}, 72 hrs., Desmodesmus subspicatus: 38.4 mg/l (biomass, DIN 38412 L 9).

Hexyl salicylate CAS: 6259-76-3

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

Fish

LC_{0}, 96 hrs., Danio rerio: 0.95 mg/l (mortality, EU method C.1).
LC_{50}, 96 hrs., Danio rerio: 1.34 mg/l (mortality, EU method C.1).
LC_{100}, 96 hrs., Danio rerio: 1.9 mg/l (mortality, EU method C.1).

Crustaceans

EC_{50}, 48 hrs., Daphnia Magna: 0.357 mg/l (mobility, EU method C.2).
NOEC, 48 hrs., Daphnia Magna: 0.14 mg/l (mobility, EU method C.2).

Algae

EC_{50}, 72 hrs., Scenedesmus subspicatus: 0.61 mg/l (growth rate, OECD 201).
EC_{50}, 72 hrs., Scenedesmus subspicatus: 0.28 mg/l (biomass, OECD 201).
NOEC, 72 hrs., Scenedesmus subspicatus: 0.15 mg/l (growth rate, OECD 201).
NOEC, 72 hrs., Scenedesmus subspicatus: 0.15 mg/l (biomass, OECD 201).

(E)-2-Benzylidenoctanal CAS: 165184-98-5

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

Fish
LC_{50}, 96 hrs., Pimephales promelas: ca. 1.7 mg/l (mortality, OECD 203). NOEC, 96 hrs., Pimephales promelas: ca. 0.93 mg/l (mortality, OECD 203).
Crustaceans
EC_{50}, 48 hrs., Daphnia Magna: 0.36 - 0.59 mg/l (OECD 202). NOEC, 21 d., Daphnia Magna: 63 µg/l (growth and reproduction, OECD 211).
Algae
EC_{50}, 72 hrs., Desmodesmus subspicatus: > 0.065 mg/l (growth rate, OECD 201). NOEC, 72 hrs., Desmodesmus subspicatus: 0.065 mg/l (biomass, 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 (CO2 evolution, OECD 301 B).	
2-Butoxyethanol	CAS: 111-76-2
Readily biodegradable: 90.4 % after 28 days (CO_2 evolution, OECD 301 B).	
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	CAS: 68891-38-3
Readily biodegradable: 100 % after 28 days (dissolved organic carbon removal, EU method C.4-C).	
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	CAS: 68411-30-3
Readily biodegradable: 85 % after 29 days (CO_2 evolution, OECD 301 B).	
Sodium hydroxide	CAS: 1310-73-2
Not determined, it is an inorganic substance.	
Amines, C12-14 (even numbered) -alkyldimethyl, N-oxides	CAS: 308062-28-4
Readily biodegradable: 90 % 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 (O2 consumption, OECD 301 C).	
(R)-p-Mentha-1,8-diene	CAS: 5989-27-5
Readily biodegradable: 80 % after 28 days (O_2 consumption, OECD 301 D).	
Linalool	CAS: 78-70-6
Readily biodegradable: 64.2 % after 28 days (O_2 consumption, OECD 301 D).	
Hexyl salicylate	CAS: 6259-76-3
Readily biodegradable: 91 % after 28 days (O_2 consumption, OECD 301 F).	
(E)-2-Benzylidenoctanal	CAS: 165184-98-5
Readily biodegradable: ca. 97 % after 28 days (O_2 consumption, OECD 301 F).	

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).	
2-Butoxyethanol	CAS: 111-76-2
log Pow = 0.81 (25 °C, pH = 7, shake-flask method).	
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	CAS: 68891-38-3
log Pow = 0.3 (23 °C, pH = 6.1, OECD 123).	
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	CAS: 68411-30-3
BCF, Oncorhynchus mykiss = 87 l/kg (OECD 305 E). log Pow = 1.4 (23 °C, pH = 6.1, OECD 123).	
Sodium hydroxide	CAS: 1310-73-2
Not determined, it is an inorganic substance.	
Amines, C12-14 (even numbered) -alkyldimethyl, N-oxides	CAS: 308062-28-4
log Pow = 1.85 (C12, calculation). log Pow = 2.69 (C14, calculation).	
Reaction mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	EC: 915-730-3
BCF = 600 (Lepomis macrochirus, OECD 305). log Pow = 5.6 (30 °C, OECD 117).	
(R)-p-Mentha-1,8-diene	CAS: 5989-27-5
BCF = 360.5 (Q)SAR method. log Pow = 4.38 (37 °C, pH = 7.2).	
Linalool	CAS: 78-70-6
log Pow = 2.84 (25 °C, pH = 7, OECD 117).	
Hexyl salicylate	CAS: 6259-76-3
BCF = 8 913 (Q)SAR method. log Pow = 5.5 (30 °C, pH = ca. 7, OECD 117).	
(E)-2-Benzylidenoctanal	CAS: 165184-98-5
log Pow = ca. 5.3 (24 °C, OECD 117).	
12.4. Mobility in soil	
Mixture	
Data for the mixture are not available.	
Propan-2-ol	CAS: 67-63-0
Data for the substance are not available.	
2-Butoxyethanol	CAS: 111-76-2
Data for the substance are not available.	

Alcohols, C12-14, ethoxylated, sulfates, sodium salts	CAS: 68891-38-3
Koc = 2.2 (Q)SAR method.	
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	CAS: 68411-30-3
Data for the substance are not available.	
Sodium hydroxide	CAS: 1310-73-2
Not determined, it is an inorganic substance.	
Amines, C12-14 (even numbered) -alkyldimethyl, N-oxides	CAS: 308062-28-4
Koc = 307 - > 2 113 (according to kind of soil, OECD 106).	
Reaction mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	EC: 915-730-3
log Koc = 4.12.	
(R)-p-Mentha-1,8-diene	CAS: 5989-27-5
Koc = 1 120.	
Linalool	CAS: 78-70-6
Data for the substance are not available.	
Hexyl salicylate	CAS: 6259-76-3
Koc = 2 981 ((Q)SAR method).	
(E)-2-Benzylidenoctanal	CAS: 165184-98-5
log Koc = 4.2 (25 °C, OECD 121).	

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

The mixture and its substances are not mentioned on the Candidate list for possible inclusion in Annex XIV of REACH at the date of the revision of the safety data sheet (established in accordance with Article 59(1) of REACH Regulation. Mixture does not contain the substance(s) identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

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 handed over for recycling.

Possible waste code

07 06 01* - aqueous washing liquids and mother liquors or 20 01 29* - detergents containing hazardous substances (mixture), 15 01 10* - packaging containing residues of or contaminated by hazardous substances (contaminated packaging), 15 01 02 - plastic packaging (clear packaging).

Physical/chemical properties that may affect waste treatment options

Flammability.

Special precautions recommended for waste management

Not known.

Waste legislation

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

SECTION 14: Transport information

14.1. UN number or ID number

UN 2924

14.2. UN proper shipping name

FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Propan-2-ol, Sodium hydroxide).

14.3. Transport hazard class(es)

3 (8)

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	FC
Labels	3+8
Hazard identification code	38
Tunnel restriction code	D/E (ADR), - (RID).
Limited quantities	5l
Excepted quantities	Maximum net quantity per inner packaging: 30 ml. Maximum net quantity per outer packaging: 1 000 ml.
Transport category	3
Additional data for IMDG	
Emergency Schedules (EmS)	F-E, S-C

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)

Regulation No. 528/2012/EC concerning the making available on the market and use of biocidal products, as amended

Regulation No. 648/2004/EC on detergents, as amended

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

First edition.

Key or legend to abbreviations and acronyms

Acute Tox. 2	Acute toxicity, cat. 2
Acute Tox. 3	Acute toxicity, cat. 3
Acute Tox. 4	Acute toxicity, cat. 4
Aquatic Acute 1	Acute aquatic hazard, cat. 1
Aquatic Chronic 1	Chronic aquatic hazard, cat. 1
Aquatic Chronic 2	Chronic aquatic hazard, cat. 2

Aquatic Chronic 3	Chronic aquatic hazard, cat. 3
Asp. Tox. 1	Aspiration hazard, cat. 1
Eye Dam. 1	Serious eye damage, cat. 1
Eye Irrit. 2	Eye irritation, cat. 2
Flam. Liq. 2	Flammable liquid, cat. 2
Flam. Liq. 3	Flammable liquid, cat. 3
Met. Corr. 1	Substance or mixture corrosive to metals, cat. 1
Skin Corr. 1	Skin corrosion, cat. 1
Skin Corr. 1A	Skin corrosion, cat. 1A
Skin Corr. 1B	Skin corrosion, cat. 1B
Skin Corr. 1C	Skin corrosion, cat. 1C
Skin Irrit. 2	Skin irritation, cat. 2
Skin Sens. 1A	Skin sensitization, cat. 1A
Skin Sens. 1B	Skin sensitization, cat. 1B
Skin Sens. 1	Skin sensitization, cat. 1
STOT SE 3	Specific target organ toxicity - single exposure, cat. 3
ATE	Acute Toxicity Estimate
bw	body weight
M	Multiplying factor
ADR	Accord Dangereuses Route
CLP	Regulation No. 1272/2008/EC, on Classification, Labelling and Packaging of substances and mixtures
DNEL	Derived No Effect Level
ICAO/IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
PBT	Persistent, bioaccumulative, toxic substance
PNEC	Predicted No Effect Concentration
REACH	Regulation No. 1907/2006/EC, concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulation concerning the International Carriage of Dangerous Goods by Rail
STOT	Specific target organ toxicity
vPvB	Very persistent and very bioaccumulative substance

Sources of key data used to compile the Safety Data Sheet

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

List of H- and P- phrases

EUH071	Corrosive to the respiratory tract.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.

H290	May be corrosive to metals.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H310	Fatal in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing vapours.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P501	Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. After cleaning, dispose of the packaging without residual product content in the sorted waste.

Training advice

According to SDS.

Other information

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

The information in this SDS was obtained from sources, which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. 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 created in accordance with Regulation No. 2020/878/EC. There is no additional information in accordance with the local and national legislation of the Member State in the European Union, in the safety data sheet.

The safety data sheet was created by company LACHEPRA s.r.o.