

# SAFETY DATA SHEET

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

## CLEAMEN 250

Date of revision: 28. 02. 2024

Version: 4.0

Replaced version from: 18. 12. 2023

Date of issue: 26. 02. 2021

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

#### 1.1. Product identifier

##### Product Name

**CLEAMEN 250**

##### UFI code

UFI: MAS0-10UQ-Y007-1N2R

##### Product code

TC25001.

##### Mixture description

Water solution.

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

##### Identified uses

Liquid neutral concentrated cleaning agent intended for professional hand dishwashing and degreasing of all surfaces.

Professional use.

##### Uses advised against

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

#### 1.3. Details of the supplier of the safety data sheet

##### CORMEN s.r.o.

Věchnov 73

593 01

Czech Republic

telephone: +420 566 550 961

Fax: +420 566 551 822

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

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### **Classification according to 1272/2008/EC**

**Skin Irrit. 2; H315**

**Skin Sens. 1A; H317**

**Eye Irrit. 2; H319**

**Aquatic Chronic 3; H412**

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

### **The most important adverse physical, human health and environmental effects**

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful to aquatic life with long lasting effects.

## **2.2. Label elements**

### **Hazard pictograms**



### **Signal word**

Warning

### **Substances of the mixture to be placed on the label**

Contains Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1), (R)-p-Mentha-1,8-diene.

### **Hazard statements**

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

### **Precautionary statements**

P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P501	Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### **Supplemental hazard information**

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Composition according to regulation 648/2004/EC on detergents:  $\geq 5$  -  $< 15$  % anionic surfactants,  $< 5$ % amphoteric surfactants, perfumes, LIMONENE, LINALOOL, CITRAL, CITRONELLOL, preservation agents (BENZYL ALCOHOL, 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
Alcohols, C12-14, ethoxylated, sulfates, sodium salts			
CAS Number	68891-38-3	< 8.5	Skin Irrit. 2; H315
EC Number	500-234-8		Eye Dam. 1; H318
Index Number	not given		Aquatic Chronic 3; H412
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 %	
Poly(oxy-1,2-ethanediyl), α-sulpho-ω-(dodecyloxy)-, ammonium salt (3 EO)			
CAS Number	32612-48-9	< 6.5	Skin Irrit. 2; H315
EC Number	not given		Eye Irrit. 2; H319
Index Number	not given		Aquatic Chronic 3; H412
Registration Number	polymer, not subject to registration		
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18 acyl derivs., inner salts			
CAS Number	97862-59-4	< 1.5	Eye Dam. 1; H318
EC Number	931-296-8		Aquatic Chronic 3; H412
Index Number	not given		
Registration Number	01-2119488533-30-XXXX		
The substance has specific concentration limits:			
Eye Dam. 1; H318		C > 10 %	
Eye Irrit. 2; H319		4 % < C ≤ 10 %	
(R)-p-Mentha-1,8-diene; d-Limonene			

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CAS Number	5989-27-5		Flam. Liq. 3; H226
EC Number	227-813-5		Asp. Tox. 1; H304
Index Number	601-096-00-2	< 0.2	Skin Irrit. 2; H315
Registration Number	01-2119529223-47-XXXX		Skin Sens. 1B; H317
			Aquatic Acute 1; H400
			Aquatic Chronic 3; H412
			M=1

### Ethanediol; Ethylene glycol

CAS Number	107-21-1		
EC Number	203-473-3		Acute Tox. 4; H302
Index Number	603-027-00-1	< 0.1	STOT RE 2; H373
Registration Number	not yet available		

### Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

			Acute Tox. 3; H301
			Acute Tox. 2; H310
			Skin Corr. 1C; H314
			Eye Dam. 1; H318
CAS Number	55965-84-9		Skin Sens. 1A; H317
EC Number	not given		Acute Tox. 2; H330
Index Number	613-167-00-5	< 0.002	Aquatic Acute 1; H400
Registration Number	not yet available		Aquatic Chronic 1; H410
			EUH071
			M=100
			M(Chronic)=100

The substance has specific concentration limits:

Skin Corr. 1C; H314	$C \geq 0.6 \%$
Eye Dam. 1; H318	$C \geq 0.6 \%$
Skin Irrit. 2; H315	$0.06 \% \leq C < 0.6 \%$
Eye Irrit. 2; H319	$0.06 \% \leq C < 0.6 \%$
Skin Sens. 1A; H317	$C \geq 0.0015 \%$

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. If the problem persists, seek medical advice.

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### **Eye contact**

Rinse with a gentle stream of water for at least 15 minutes. Keep your eyelids wide open with your thumb and forefinger. If the affected person is wearing contact lenses, remove them before rinsing eyes if it is easy. If pain or redness persists, seek medical advice.

### **Ingestion**

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

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

Are not known.

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

Treat symptomatically and supportively.

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

##### Small fire:

Carbon dioxide CO<sub>2</sub>, 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**

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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. 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

Ethandiol				CAS: 107-21-1
Limit values - Eight hours		Limit values - Short-term		Note
52 mg/m <sup>3</sup>	20 ppm	104 mg/m <sup>3</sup>	40 ppm	Skin

#### 8.1.2. Biological limit values

Not determined in EU.

#### 8.1.3. DNEL and PNEC values

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

Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	175 mg/m <sup>3</sup>
Workers	Dermal	Systemic effect	Long term	2 750 mg/kg/day
Workers	Dermal	Local effect	Long term	132 µg/cm <sup>2</sup>
General population	Inhalation	Systemic effect	Long term	52 mg/m <sup>3</sup>
General population	Dermal	Systemic effect	Long term	1 650 mg/kg/day
General population	Dermal	Local effect	Long term	79 µg/cm <sup>2</sup>

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General population	Oral	Systemic effect	Long term	15 mg/kg/day
<b>PNEC</b>				
Fresh water	Marine water	Intermittent releases Fresh water	Marine water	Sewage Treatment Plant (STP)
0.24 mg/l	0.024 mg/l	0.071 mg/l	not given	10 g/l
<b>PNEC</b>				
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
<b>1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18 acyl derivs., inner salts</b>				CAS: 97862-59-4
<b>DNEL</b>				
Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	44 mg/m <sup>3</sup>
Workers	Dermal	Systemic effect	Long term	12.5 mg/kg/day
General population	Inhalation	Systemic effect	Long term	13.04 mg/m <sup>3</sup>
General population	Dermal	Systemic effect	Long term	7.5 mg/kg/day
General population	Oral	Systemic effect	Long term	7.5 mg/kg/day
<b>PNEC</b>				
Fresh water	Marine water	Intermittent releases Fresh water	Marine water	Sewage Treatment Plant (STP)
0.013 mg/l	0.001 mg/l	not given	not given	3 000 mg/l
<b>PNEC</b>				
Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators
11.1 mg/kg	1.11 mg/kg	no effect	0.85 mg/kg	no effect
<b>(R)-p-Mentha-1,8-diene</b>				CAS: 5989-27-5
<b>DNEL</b>				
Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	66.7 mg/m <sup>3</sup>
Workers	Dermal	Systemic effect	Long term	9.5 mg/kg/day
General population	Inhalation	Systemic effect	Long term	16.6 mg/m <sup>3</sup>
General population	Dermal	Systemic effect	Long term	4.8 mg/kg/day
General population	Oral	Systemic effect	Long term	4.8 mg/kg/day
<b>PNEC</b>				
Fresh water	Marine water	Intermittent releases Fresh water	Marine water	Sewage Treatment Plant (STP)
14 µg/l	1.4 µg/l	not given	not given	1.8 mg/l
<b>PNEC</b>				



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

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

Use only in well-ventilated areas.

Observe usual safety precautions for working with chemicals. The degree of effectiveness of personal protective equipment depends on temperature and ventilation levels.

#### 8.2.2. Individual protection measures, such as personal protective equipment

Do not eat, drink or smoke. After work, wash thoroughly with warm water and soap and take a shower. Use protective cream. Do not soiled protective equipment to wash, do not use solvents.

##### Eye/face protection

Wear safety 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:  $\geq 480$  min., glove thickness:  $\geq 0.4$  mm

butyl rubber, breakthrough time:  $\geq 30$  min., glove thickness:  $\geq 0.4$  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 (EN ISO 13688) and protective footwear (EN ISO 20346).

##### 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

<b>Physical state</b>	Liquid.
<b>Colour</b>	Yellow.
<b>Odour</b>	Characteristic.
<b>Melting point/freezing point</b>	Not determined.



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<b>Boiling point or initial boiling point and boiling range</b>	Not determined.
<b>Flammability</b>	Not determined.
<b>Lower explosion limit</b>	Not determined.
<b>Upper explosion limit</b>	Not determined.
<b>Flash point</b>	Not determined.
<b>Auto-ignition temperature</b>	Not determined.
<b>Decomposition temperature</b>	Not determined, the mixture does not contain self-reactive substances or organic peroxides or other substances which may decompose.
<b>pH</b>	5.0 – 6.0.
<b>Kinematic viscosity</b>	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. %.
<b>Solubility</b>	Fully miscible with water.
<b>Partition coefficient n-octanol/water (log value)</b>	Does not apply to mixture.
<b>Vapour pressure</b>	Not determined.
<b>Density and/or relative density</b>	1.03 g/cm <sup>3</sup> (20 °C).
<b>Relative vapour density</b>	Not determined.
<b>Particle characteristics</b>	Does not apply to liquid.
<b>Alcohols, C12-14, ethoxylated, sulfates, sodium salts</b> CAS: 68891-38-3	
<b>Physical state</b>	Solid.
<b>Colour</b>	Yellowish.
<b>Odour</b>	Rancid.
<b>Melting point/freezing point</b>	> 300 °C (ASTM E737-76).
<b>Boiling point or initial boiling point and boiling range</b>	Not determined, the substance has a melting point higher than 300 °C.
<b>Flammability</b>	The substance is not classified as flammable solid (EU method A.10)
<b>Lower explosion limit</b>	Does not apply to solid.
<b>Upper explosion limit</b>	Does not apply to solid.
<b>Flash point</b>	Does not apply to solid.
<b>Auto-ignition temperature</b>	250 °C (EU method A.16)
<b>Decomposition temperature</b>	Not determined, it is not a self-reactive substance or an organic peroxide or a substance that may decompose.
<b>pH</b>	Not determined.
<b>Kinematic viscosity</b>	Does not apply to solid.
<b>Solubility</b>	280 g/l (20 °C, pH = 6.8, literature).

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<b>Partition coefficient n-octanol/water (log value)</b>	log Pow = 0.3 (23 °C, pH = 6.1, OECD 123).
<b>Vapour pressure</b>	Not determined, the substance has melting point higher than 300 °C.
<b>Density and/or relative density</b>	1.08 g/cm <sup>3</sup> (22 °C, OECD 109).
<b>Relative vapour density</b>	Does not apply to solid.
<b>Particle characteristics</b>	Not determined.
<b>1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18 acyl derivs., inner salts</b> <span style="float: right;">CAS: 97862-59-4</span>	
<b>Physical state</b>	Solid.
<b>Colour</b>	Not determined.
<b>Odour</b>	Not determined.
<b>Melting point/freezing point</b>	Not determined, substance decomposes.
<b>Boiling point or initial boiling point and boiling range</b>	Not determined, substance decomposes.
<b>Flammability</b>	The substance is not classified as flammable (EU method A.10).
<b>Lower explosion limit</b>	Does not apply to solid.
<b>Upper explosion limit</b>	Does not apply to solid.
<b>Flash point</b>	Does not apply to solid.
<b>Auto-ignition temperature</b>	Does not apply to solid.
<b>Decomposition temperature</b>	208 - 280 °C (OECD 102).
<b>pH</b>	Not determined.
<b>Kinematic viscosity</b>	Does not apply to solid.
<b>Solubility</b>	≤ 400 mg/l (20 °C, literature)
<b>Partition coefficient n-octanol/water (log value)</b>	log Pow = 1.79 (pH = 3 - 8, 20 °C, C8 derivates, (Q)SAR method). log Pow = 2.81 (pH = 3 - 8, 20 °C, C10 derivates, (Q)SAR method). log Pow = 3.54 (pH = 3 - 8, 20 °C, C12 derivates, (Q)SAR method). log Pow = 5.13 (pH = 3 - 8, 20 °C, C14 derivates, (Q)SAR method). log Pow = 6.15 (pH = 3 - 8, 20 °C, C16 derivates, (Q)SAR method). log Pow = 7.17 (pH = 3 - 8, 20 °C, C18 derivates, (Q)SAR method).
<b>Vapour pressure</b>	Not determined.
<b>Density and/or relative density</b>	1.15 g/cm <sup>3</sup> (20 °C, ISO 1183-1).
<b>Relative vapour density</b>	Does not apply to solid.
<b>Particle characteristics</b>	Not determined.
<b>(R)-p-Mentha-1,8-diene</b> <span style="float: right;">CAS: 5989-27-5</span>	

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<b>Physical state</b>	Liquid.
<b>Colour</b>	Colourless to yellowish.
<b>Odour</b>	Not determined.
<b>Melting point/freezing point</b>	199.5 K (OECD 102).
<b>Boiling point or initial boiling point and boiling range</b>	450.6 K (literature).
<b>Flammability</b>	The substance is classified as flammable liquid.
<b>Lower explosion limit</b>	Not determined.
<b>Upper explosion limit</b>	Not determined.
<b>Flash point</b>	51 °C (EU method A.9).
<b>Auto-ignition temperature</b>	245 °C (EU method A.15).
<b>Decomposition temperature</b>	Not determined, it is not a self-reactive substance or an organic peroxide or a substance that may decompose.
<b>pH</b>	Not determined.
<b>Kinematic viscosity</b>	ca. 1 mm <sup>2</sup> /s (calculated from dynamic viscosity = 0.8462 mPa.s, OECD 114)
<b>Solubility</b>	12.3 mg/l (298.15 K, pH = 7, OECD 105).
<b>Partition coefficient n-octanol/water (log value)</b>	log Pow = -4.38 (37 °C, pH = 7.2, OECD 117).
<b>Vapour pressure</b>	200 Pa (298 K, literature).
<b>Density and/or relative density</b>	D <sub>4</sub> <sup>20</sup> = 0.844 (OECD 109).
<b>Relative vapour density</b>	Not determined.
<b>Particle characteristics</b>	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

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Data for the mixture are not available.

The mixture is not classified as a flammable liquid due to the low concentration of limonene.

### **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 does not contain substances classified as corrosive to metals or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

### **Desensitised explosives**

Data for the mixture are not available.

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

**Alcohols, C12-14, ethoxylated, sulfates, sodium salts**

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### **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.

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### **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.

**1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18 acyl derivs., inner salts**

CAS: 97862-59-4

### **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**

Burning time = 510 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 soluble in water and forms a stable mixture with it.

### **Oxidising liquids**



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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.

**(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.

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## CLEAMEN 250

### ***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**

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

## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

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## CLEAMEN 250

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.

### 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.

ATE<sub>mixture</sub> > 2 000 mg/kg (estimate, low concentration of substances classified as toxic oral route of exposure).

##### Dermal

Data for the mixture are not available.

ATE<sub>mixture</sub> > 2 000 mg/kg (estimate, low concentration of substances classified as toxic dermal route of exposure).

##### Inhalation

Data for the mixture are not available.

ATE<sub>mixture</sub> > 20 mg/l (estimate, low concentration of substances classified as toxic inhalation route of exposure).

#### Skin corrosion/irritation

Data for the mixture are not available.

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

#### Serious eye damage/irritation

Data for the mixture are not available.

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

#### Respiratory or skin sensitisation

Data for the mixture are not available.

The mixture is classified as a skin sensitizing in category 1A according to the general/specific concentration limits of substance(s).

The mixture contains other sensitizing substance(s) with an elicitation limit that can cause an allergic reaction.

#### Germ cell mutagenicity

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## CLEAMEN 250

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

### **STOT – repeated exposure**

Data for the mixture are not available.

The mixture is not classified as toxic for specific target organs in a repeated exposure according to the general/specific concentration limits of substance(s).

### **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.

**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<sub>50</sub> = 4 100 mg/kg (rat, OECD 401).

**Dermal** Based on available data, the classification criteria are not met.  
LD<sub>50</sub> > 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**

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## CLEAMEN 250

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<sup>2</sup>/s or less at 40 °C.

**1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18 acyl derivs., inner salts**

CAS: 97862-59-4

### ***Acute toxicity***

**Oral** Based on available data, the classification criteria are not met.  
LD<sub>50</sub> = 2 335 mg/kg (rat, OECD 401).

**Dermal** Based on available data, the classification criteria are not met.  
LD<sub>50</sub> > 2 000 mg/kg (rat, OECD 402).

**Inhalation** Data for the substance are not available.

### ***Skin corrosion/irritation***

Based on available data, the classification criteria are not met.  
Mean erythema score = 0.33; 1.67; 0.33 (fully reversible after 72 hours) and oedema = 0.33; 0.33; 0 (fully reversible after 48 hours) (rabbit, OECD 404).

### ***Serious eye damage/irritation***

The substance classified as seriously damaging to the eyes.  
Mean score of corneal opacity = 1.33 (not fully reversible after 21 days), iritis = 1 (not fully reversible after 21 days), conjunctival redness = 3 (not fully reversible after 21 days), conjunctival oedema = 1.1 (fully reversible after 17 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).

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## CLEAMEN 250

### ***Germ cell mutagenicity***

Based on available data, the classification criteria are not met.  
Negative (OECD 476, EU method B13/14).

### ***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.  
NOEL = 300 mg/kg/day (systemic effect, rat, oral, 90 days, OECD 408).  
NOEL = 75 mg/kg/day (local effect, local irritative effects at the side of application (forestomach gastritis), judged as not relevant to humans due to significant different anatomic situation and exposure probability in humans, rat, oral, 90 days, OECD 408).  
LOEL = 150 mg/kg/day (local effect, local irritative effects at the side of application (forestomach gastritis), judged as not relevant to humans due to significant different anatomic situation and exposure probability in humans, 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<sup>2</sup>/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<sub>50</sub> > 2 000 mg/kg (rat, female, OECD 423).

**Dermal** Based on available data, the classification criteria are not met.  
LD<sub>50</sub> > 5 000 mg/kg (rabbit, OECD 402).

**Inhalation** Data for the substance are not available.

### ***Skin corrosion/irritation***

The substance is classified as skin irritant.  
Mean erythema score = 2 (not fully reversible after 7 days) and oedema = 1.56 (not fully reversible after 7 days) (rabbit, OECD 404).

### ***Serious eye damage/irritation***

Based on available data, the classification criteria are not met.  
Mean score of corneal opacity = 0, iritis = 0, conjunctival redness = 0.3, 1, 1.3 (fully reversible after 2 - 4 days), conjunctival oedema = 1, 0.3, 1 (fully reversible after 2 - 7 days) (rabbit, 72 h, OECD 405).

### ***Respiratory or skin sensitisation***

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

### ***Germ cell mutagenicity***

Based on available data, the classification criteria are not met.  
Negative (OECD 471, OECD 473, OECD 476).



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

## CLEAMEN 250

### **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 mm<sup>2</sup>/s or less at 40 °C.

## **11.2. Information on other hazards**

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

Mixture does not contain the substance(s) identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. There is no other relevant information on adverse health effects that is not required according to the classification criteria set out in CLP Regulation.

## **SECTION 12: Ecological information**

### **12.1. Toxicity**

#### **Mixture**

Data for the mixture are not available.

#### **Acute aquatic toxicity**

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

category 1

$\Sigma < 0.4$

#### **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

$\Sigma$

< 0.2

< 2.0

< 36.5

not relevant

**Alcohols, C12-14, ethoxylated, sulfates, sodium salts**

CAS: 68891-38-3

# SAFETY DATA SHEET

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

## CLEAMEN 250

The substance is classified as Aquatic Chronic 3; H412.

### **Fish**

LC<sub>50</sub>, 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<sub>50</sub>, 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<sub>50</sub>, 72 hrs., Desmodesmus subspicatus: 27.7 mg/l (growth rate, OECD 201).

EC<sub>10</sub>, 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).

### **1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18 acyl derivs., inner salts**

CAS: 97862-59-4

The substance is classified as Aquatic Chronic 3; H412.

### **Fish**

LC<sub>50</sub>, 96 hrs., Pimephales promelas: 1.1 mg/l (mortality, OECD 203).

NOEC, 37 d., Oncorhynchus mykiss: 0.135 mg/l (egg hatch, OECD 210).

### **Crustaceans**

EC<sub>50</sub>, 48 hrs., Daphnia Magna: 6.5 mg/l (mobility, OECD 202).

NOEC, 21 d., Daphnia Magna: 0.32 mg/l (reproduction, OECD 211).

NOEC, 21 d., Daphnia Magna: 0.56 mg/l (mortality, OECD 211).

### **Algae**

EC<sub>50</sub>, 72 hrs., Pseudokirchneriella subcapitata: ca. 8 mg/l (growth rate, OECD 201).

EC<sub>50</sub>, 72 hrs., Pseudokirchneriella subcapitata: > 10 mg/l (biomass, OECD 201).

NOEC, 72 hrs., Pseudokirchneriella subcapitata: 3.2 mg/l (growth rate and biomass, OECD 201).

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

CAS: 5989-27-5

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

### **Fish**

LC<sub>50</sub>, 96 hrs., Pimephales promelas: 720 µg/l (mortality, OECD 203).

EC<sub>50</sub>, 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<sub>50</sub>, 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<sub>50</sub>, 72 hrs., Desmodesmus subspicatus: 0.32 mg/l (growth rate, OECD 201).

EC<sub>10</sub>, 72 hrs., Desmodesmus subspicatus: 0.174 mg/l (growth rate, OECD 201).

## **12.2. Persistence and degradability**

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## CLEAMEN 250

<b>Mixture</b>	
Data for the mixture are not available.	
<b>Alcohols, C12-14, ethoxylated, sulfates, sodium salts</b>	CAS: 68891-38-3
Readily biodegradable: 100 % after 28 days (dissolved organic carbon removal, EU method C.4-C).	
<b>1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18 acyl derivs., inner salts</b>	CAS: 97862-59-4
Readily biodegradable: 91.6 % after 28 days (CO <sub>2</sub> evolution, OECD 301 B).	
<b>(R)-p-Mentha-1,8-diene</b>	CAS: 5989-27-5
Readily biodegradable: 80 % after 28 days (O <sub>2</sub> consumption, OECD 301 D).	
<b>12.3. Bioaccumulative potential</b>	
<b>Mixture</b>	
Data for the mixture are not available.	
<b>Alcohols, C12-14, ethoxylated, sulfates, sodium salts</b>	CAS: 68891-38-3
log Pow = 0.3 (23 °C, pH = 6.1, OECD 123).	
<b>1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18 acyl derivs., inner salts</b>	CAS: 97862-59-4
BCF = 3 (C8 derivates, (Q)SAR method). BCF = 71 (C10-18 a C18 unsaturated derivates, (Q)SAR method). log Pow = 1.79 (pH = 3 - 8, 20 °C, C8 derivates, (Q)SAR method). log Pow = 2.81 (pH = 3 - 8, 20 °C, C10 derivates, (Q)SAR method). log Pow = 3.54 (pH = 3 - 8, 20 °C, C12 derivates, (Q)SAR method). log Pow = 5.13 (pH = 3 - 8, 20 °C, C14 derivates, (Q)SAR method). log Pow = 6.15 (pH = 3 - 8, 20 °C, C16 derivates, (Q)SAR method). log Pow = 7.17 (pH = 3 - 8, 20 °C, C18 derivates, (Q)SAR method).	
<b>(R)-p-Mentha-1,8-diene</b>	CAS: 5989-27-5
BCF = 360.5 (Q)SAR method. log Pow = 4.38 (37 °C, pH = 7.2).	
<b>12.4. Mobility in soil</b>	
<b>Mixture</b>	
Data for the mixture are not available.	
<b>Alcohols, C12-14, ethoxylated, sulfates, sodium salts</b>	CAS: 68891-38-3
Koc = 2.2 (Q)SAR method.	
<b>1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18 acyl derivs., inner salts</b>	CAS: 97862-59-4
log Koc = 2.423 - 5.081 ((Q)SAR method).	
<b>(R)-p-Mentha-1,8-diene</b>	CAS: 5989-27-5
Koc = 1 120.	
<b>12.5. Results of PBT and vPvB assessment</b>	

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

## CLEAMEN 250

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 (e.g. 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.

Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

#### **Possible waste code**

16 03 05 - organic wastes 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**

Not known.

#### **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

This product is not classified as a dangerous for transportation (ADR/RID, IMDG, ICAO/IATA).

### 14.1. UN number or ID number

Not given.

### 14.2. UN proper shipping name

Not given.

### 14.3. Transport hazard class(es)

Not given.

### 14.4. Packing group

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

## CLEAMEN 250

Not given.

### 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.

## 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. 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

Change of the classification and labeling of the mixture. Change in the composition of the mixture in section 3 and related changes in the other sections.

### 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 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. 3	Flammable liquid, cat. 3
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
STOT RE 2	Specific target organ toxicity - repeated exposure, cat. 2

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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.
H226	Flammable liquid and vapour.
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.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.



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P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P501	Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### **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.