# 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: | **22. 07. 2024** | Version: **4.1** |
| Replaced version from: | **28. 02. 2024** | |
| 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

### *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***

**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. Dispose of the cleaned packaging without any residual product content in the sorted waste. |

***Supplemental hazard information***

Composition according to regulation 648/2004/EC on detergents: ≥ 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 |
|---|---|---|---|
| **Poly(oxy-1,2-ethanediyl), α-sulpho-ω-(dodecyloxy)-, ammonium salt (3 EO)** | | | |
| CAS Number | 32612-48-9 | 1 - < 10 | Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>Aquatic Chronic 3; H412 |
| EC Number | not given | | |
| Index Number | not given | | |
| Registration Number | polymer, not subject to registration | | |
| **Alcohols, C12-14, ethoxylated, sulfates, sodium salts** | | | |
| CAS Number | 68891-38-3 | 1 - < 8.5 | Skin Irrit. 2; H315<br>Eye Dam. 1; H318<br>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 % | | |
| **1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18 acyl derivs., inner salts** | | | |
| CAS Number | 97862-59-4 | 1 - < 1.5 | Eye Dam. 1; H318<br>Aquatic Chronic 3; H412 |
| EC Number | 931-296-8 | | |
| 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** | | | |

| | | | |
|---|---|---|---|
| CAS Number<br>EC Number<br>Index Number<br>Registration Number | 5989-27-5<br>227-813-5<br>601-096-00-2<br>01-2119529223-47-XXXX | 0.1 - < 1 | Flam. Liq. 3; H226<br>Asp. Tox. 1; H304<br>Skin Irrit. 2; H315<br>Skin Sens. 1B; H317<br>Aquatic Acute 1; H400<br>Aquatic Chronic 3; H412<br>M=1 |
| **Ethanediol; Ethylene glycol** | | | |
| CAS Number<br>EC Number<br>Index Number<br>Registration Number | 107-21-1<br>203-473-3<br>603-027-00-1<br>not yet available | < 0.1 | Acute Tox. 4; H302<br>STOT RE 2; H373 |
| **Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)** | | | |
| CAS Number<br>EC Number<br>Index Number<br>Registration Number | 55965-84-9<br>not given<br>613-167-00-5<br>not yet available | < 0.002 | Acute Tox. 3; H301<br>Acute Tox. 2; H310<br>Skin Corr. 1C; H314<br>Eye Dam. 1; H318<br>Skin Sens. 1A; H317<br>Acute Tox. 2; H330<br>Aquatic Acute 1; H400<br>Aquatic Chronic 1; H410<br>EUH071<br>M=100<br>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. If the problem persists, seek medical advice.

***Eye contact***

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

***Ingestion***

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

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

Are not known.

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

Treat symptomatically and supportively.

## SECTION 5: Firefighting measures

### *5.1. Extinguishing media*

***Suitable extinguishing media***

Small fire:

Carbon dioxide $CO_2$, 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.

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$^3$ | 20 ppm | 104 mg/m$^3$ | 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

**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 |

**1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18 acyl derivs., inner salts** CAS: 97862-59-4

**DNEL**

| Area of use | Route of exposure | Effect | Exposure time | Value |
|---|---|---|---|---|
| Workers | Inhalation | Systemic effect | Long term | 44 mg/m$^3$ |
| Workers | Dermal | Systemic effect | Long term | 12.5 mg/kg/day |
| General population | Inhalation | Systemic effect | Long term | 13.04 mg/m$^3$ |
| General population | Dermal | Systemic effect | Long term | 7.5 mg/kg/day |
| General population | Oral | Systemic effect | Long term | 7.5 mg/kg/day |

**PNEC**

| Fresh water | Marine water | Intermittent releases | | Sewage Treatment Plant (STP) |
|---|---|---|---|---|
| | | Fresh water | Marine water | |
| 0.013 mg/l | 0.001 mg/l | not given | not given | 3 000 mg/l |

**PNEC**

| 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 |

**(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 |

### 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: ≥ 480 min., glove thickness: ≥ 0.4 mm

butyl rubber, breakthrough time: ≥ 30 min., glove thickness: ≥ 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 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*** | Yellow. |
| ***Odour*** | Characteristic. |
| ***Melting point/freezing point*** | Not determined. |

| | |
|---|---|
| ***Boiling point or initial boiling point and boiling range*** | Not determined. |
| ***Flammability*** | Not determined. |
| ***Lower explosion limit*** | Not determined. |
| ***Upper explosion limit*** | Not determined. |
| ***Flash point*** | Not determined. |
| ***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*** | 5.0 – 6.0. |
| ***Kinematic viscosity*** | Not determined, the mixture does not contain a substance classified as aspiration toxic, or the sum of the concentrations of substances classified as aspiration toxic is less than 10 wt. %. |
| ***Solubility*** | Fully miscible with water. |
| ***Partition coefficient n-octanol/water (log value)*** | Does not apply to mixture. |
| ***Vapour pressure*** | Not determined. |
| ***Density and/or relative density*** | 1.03 g/cm$^3$ (20 °C). |
| ***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. |
| **1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18 acyl derivs., inner salts** | CAS: 97862-59-4 |
| ***Physical state*** | Solid. |
| ***Colour*** | Not determined. |
| ***Odour*** | Not determined. |
| ***Melting point/freezing point*** | Not determined, substance decomposes. |
| ***Boiling point or initial boiling point and boiling range*** | Not determined, substance decomposes. |
| ***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*** | 208 - 280 °C (OECD 102). |
| ***pH*** | Not determined. |
| ***Kinematic viscosity*** | Does not apply to solid. |
| ***Solubility*** | ≤ 400 mg/l (20 °C, literature) |
| ***Partition coefficient n-octanol/water (log value)*** | log Pow = 1.79 (pH = 3 - 8, 20 °C, C8 derivates, (Q)SAR method).<br>log Pow = 2.81 (pH = 3 - 8, 20 °C, C10 derivates, (Q)SAR method).<br>log Pow = 3.54 (pH = 3 - 8, 20 °C, C12 derivates, (Q)SAR method).<br>log Pow = 5.13 (pH = 3 - 8, 20 °C, C14 derivates, (Q)SAR method).<br>log Pow = 6.15 (pH = 3 - 8, 20 °C, C16 derivates, (Q)SAR method).<br>log Pow = 7.17 (pH = 3 - 8, 20 °C, C18 derivates, (Q)SAR method). |
| ***Vapour pressure*** | Not determined. |
| ***Density and/or relative density*** | 1.15 g/cm$^3$ (20 °C, ISO 1183-1). |
| ***Relative vapour density*** | Does not apply to solid. |
| ***Particle characteristics*** | Not determined. |
| **(R)-p-Mentha-1,8-diene** | CAS: 5989-27-5 |
| ***Physical state*** | Liquid. |

| | |
|---|---|
| ***Colour*** | Colourless to yellowish. |
| ***Odour*** | Not determined. |
| ***Melting point/freezing point*** | 199.5 K (OECD 102). |
| ***Boiling point or initial boiling point and boiling range*** | 450.6 K (literature). |
| ***Flammability*** | The substance is classified as flammable liquid. |
| ***Lower explosion limit*** | Not determined. |
| ***Upper explosion limit*** | Not determined. |
| ***Flash point*** | 51 °C (EU method A.9). |
| ***Auto-ignition temperature*** | 245 °C (EU method A.15). |
| ***Decomposition temperature*** | Not determined, it is not a self-reactive substance or an organic peroxide or a substance that may decompose. |
| ***pH*** | Not determined. |
| ***Kinematic viscosity*** | ca. 1 $mm^2/s$ (calculated from dynamic viscosity = 0.8462 mPa.s, OECD 114) |
| ***Solubility*** | 12.3 mg/l (298.15 K, pH = 7, OECD 105). |
| ***Partition coefficient n-octanol/water (log value)*** | log Pow = -4.38 (37 °C, pH = 7.2, OECD 117). |
| ***Vapour pressure*** | 200 Pa (298 K, literature). |
| ***Density and/or relative density*** | $D_4^{20}$ = 0.844 (OECD 109). |
| ***Relative vapour density*** | Not determined. |
| ***Particle characteristics*** | Does not apply to liquid. |

## *9.2. Other information*

### *9.2.1. Information with regard to physical hazard classes*

**Mixture**

***Explosives***

Data for the mixture are not available.

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

***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***

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** CAS: 68891-38-3

| |
|---|
| ***Explosives*** |
| Data for the substance are not available.<br>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.<br>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.<br>The substance is stable in air, there is no spontaneous ignition. |
| ***Self-heating substances and mixtures*** |
| Data for the substance are not available.<br>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.<br>The chemical structure of the substance does not contain metals or metalloids.<br>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.<br>It is an organic substance does not contain chemical groups associated with oxidising properties. |
| ***Organic peroxides*** |
| Data for the substance are not available.<br>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.

**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***

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.

***Self-heating substances and mixtures***

Data for the substance are not available.

The substance is not classified as self-heating.

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

Data for the substance are not available.

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

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

***Oxidising liquids***

Data for the substance are not available.

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

***Oxidizing solids***

It is not solid.

***Organic peroxides***

Data for the substance are not available.

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

***Corrosive to metals***

Data for the substance are not available.

The substance is not classified as corrosive to metal.

***Desensitised explosives***

Data for the substance are not available.

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

### *9.2.2. Other safety characteristics*

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

## SECTION 10: Stability and reactivity

### *10.1. Reactivity*

The mixture is stable under normal conditions of use. There aren´t any hazardous reaction.

### *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.<br>The mixture does not contain relevant substances classified as an acute toxicity by oral route of exposure or the concentration of substance(s) is lower than the limit for inclusion in Section 3. |
| ***Dermal*** | Data for the mixture are not available.<br>The mixture does not contain relevant substances classified as an acute toxicity by dermal route of exposure or the concentration of substance(s) is lower than the limit for inclusion in Section 3. |
| ***Inhalation*** | Data for the mixture are not available.<br>The mixture does not contain relevant substances classified as an acute toxicity by inhalation route of exposure or the concentration of substance(s) is lower than the limit for inclusion in Section 3. |

***Skin corrosion/irritation***

Data for the mixture are not available.

The mixture is 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***

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.<br>$LD_{50}$ = 4 100 mg/kg (rat, OECD 401). |
| ***Dermal*** | Based on available data, the classification criteria are not met.<br>$LD_{50}$ > 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.

**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.<br>$LD_{50}$ = 2 335 mg/kg (rat, OECD 401). |
| ***Dermal*** | Based on available data, the classification criteria are not met.<br>$LD_{50}$ > 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).

***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 $mm^2/s$ 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<br>$LD_{50}$ > 2 000 mg/kg (rat, female, OECD 423). |
| ***Dermal*** | Based on available data, the classification criteria are not met.<br>$LD_{50}$ > 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.

### *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 | ∑ < 1.2 |

***Chronic aquatic toxicity***

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

| | | | | |
|---|---|---|---|---|
| category | 1 | 2 | 3 | 4 |

| | | | | |
|---|---|---|---|---|
| ∑ | < 0.2 | < 2.0 | < 40 | not relevant |

**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).

**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***

$LC_{50}$, 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***

$EC_{50}$, 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***

$EC_{50}$, 72 hrs., Pseudokirchneriella subcapitata: ca. 8 mg/l (growth rate, OECD 201).
$EC_{50}$, 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***

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

***Crustaceans***

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

***Algae***

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

## *12.2. Persistence and degradability*

**Mixture**

Data for the mixture are not available.

**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).

**1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18 acyl derivs., inner salts** CAS: 97862-59-4

Readily biodegradable: 91.6 % after 28 days ($CO_2$ evolution, OECD 301 B).

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

Readily biodegradable: 80 % after 28 days ($O_2$ consumption, OECD 301 D).

## *12.3. Bioaccumulative potential*

**Mixture**

Data for the mixture are not available.

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

log Pow = 0.3 (23 °C, pH = 6.1, OECD 123).

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

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

BCF = 360.5 (Q)SAR method.
log Pow = 4.38 (37 °C, pH = 7.2).

## *12.4. Mobility in soil*

**Mixture**

Data for the mixture are not available.

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

Koc = 2.2 (Q)SAR method.

**1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18 acyl derivs., inner salts** CAS: 97862-59-4

log Koc = 2.423 - 5.081 ((Q)SAR method).

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

Koc = 1 120.

### 12.5. Results of PBT and vPvB assessment

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

### 12.6. Endocrine disrupting properties

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

### 12.7. Other adverse effects

Data are not available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

***Disposal methods of the substance or mixture and the contaminated packaging***

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

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

***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*

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 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 |
| 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. |
| 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. Dispose of the cleaned packaging without any residual product content in the sorted waste. |

***Training advice***

According to SDS.

***Other information***

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

The information in this 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.