

# SAFETY DATA SHEET

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

## CLEAMEN 322

Date of revision: 31. 05. 2021

Version: 2.0

Replaced version from: 29. 03. 2016

Date of issue: 29. 03. 2016

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

#### 1.1. Product identifier

**Product Name**

**CLEAMEN 322**

**UFI code**

UFI: 5360-R0HK-100A-S8J2

**Product code**

VC322000199

VC322000299

VC322001299

**Mixture description**

Mixture of surfactant, sodium carbonate and perfume.

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

**Identified uses**

They prevent limescale and uric scale sedimentation.

**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.**

Průmyslová 1420

593 01 Bystřice nad Pernštejnem

Czech Republic

Tel.: +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

Eye Dam. 1; H318

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. Causes serious eye damage. Harmful to aquatic life with long lasting effects.

## 2.2. Label elements

### Hazard pictograms



### Signal word

Danger.

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

Contains Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts.

### Hazard statements

H315	Causes skin irritation.
H318	Causes serious eye damage.
H412	Harmful to aquatic life with long lasting effects.

### Precautionary statements

P102	Keep out of reach of children.
P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
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

EUH208 - Contains Cineol, (R)-p-Mentha-1,8-diene, Citral. May produce an allergic reaction.  
Composition according to regulation 648/2004/EC on detergents:  $\geq 15$  -  $< 30$  % anionic surfactants,  $< 5$  % perfumes, LIMONENE, CITRAL, CITRONELLOL.

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### 2.3. Other hazards

Mixture do 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 do 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
<b>Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts</b>			
CAS Number	68411-30-3	10 - 30	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412
EC Number	270-115-0		
Index Number	not given		
Registration Number	01-2119489428-22-XXXX		
<b>Sodium carbonate</b>			
CAS Number	497-19-8	1 - 3	Eye Irrit. 2; H319
EC Number	207-838-8		
Index Number	011-005-00-2		
Registration Number	01-2119485498-19-XXXX		
<b>p-Mentha-1,8-diene; Limonene</b>			
CAS Number	586-62-9	1 - 3	Asp. Tox. 1; H304 Aquatic Chronic 2; H411
EC Number	209-578-0		
Index Number	not given		
Registration Number	not yet available		
<b>Cineol; Eucalyptol</b>			
CAS Number	470-82-6	0.1 - < 1	Flam. Liq. 3; H226 Skin Sens. 1B; H317
EC Number	207-431-5		
Index Number	not given		
Registration Number	not yet available		
<b>(R)-p-Mentha-1,8-diene; d-Limonene</b>			
CAS Number	5989-27-5	0.1 - < 1	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M=1 M(Chronic)=1
EC Number	227-813-5		
Index Number	601-029-00-7		
Registration Number	not yet available		
<b>Citral; (2E)-3,7-Dimethylocta-2,6-dienal</b>			

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CAS Number	5392-40-5		Skin Irrit. 2; H315
EC Number	226-394-6		Skin Sens. 1; H317
Index Number	605-019-00-3	0.1 - < 1	Eye Irrit. 2; H319
Registration Number	01-2119462829-23-XXXX		

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

### SECTION 4: First aid measures

In all cases keep the victim at physical and mental rest and warm. In case of doubt or if symptoms persist, seek medical attention. Never give anything by mouth if victim is rapidly losing consciousness, unconscious or convulsing. Protect yourself during rescue work.

#### 4.1. Description of first aid measures

##### **Inhalation**

Interrupt the exposure, move the person to the fresh air. In case of persistent nausea, seek medical advice.

##### **Skin contact**

Remove contaminated clothing, shoes, and wash affected skin thoroughly with water (preferably lukewarm) and soap. Do not use solvents or thinners. If the problem persists, seek medical advice.

##### **Eye contact**

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

The product is non-flammable. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

##### **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 sulfide and products of incomplete combustion.

#### 5.3. Advice for firefighters

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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. 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

Take up mechanically, place in appropriate containers for disposal and dispose of according to Section 13, unless it can be reused. Flush residues with water and collect it for waste disposal.

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 vapor.

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)

The product is designed for cleaning kitchen sinks, dishes, baths, washbasins and wall tiles.

Apply the detergent to dirty places, clean with a soft sponge and rinse with water. We recommend wetting the surface before applying of the detergent.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 8.1.1. Exposure limit value

Not determined.

##### 8.1.2. Biological limit values

Not determined in EU.

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<b>8.1.3. DNEL and PNEC values</b>				
<b>Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts</b>				CAS: 68411-30-3
<b>DNEL</b>				
Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	7.6 mg/m <sup>3</sup>
Workers	Dermal	Systemic effect	Long term	119 mg/kg/day
General population	Inhalation	Systemic effect	Long term	1.3 mg/m <sup>3</sup>
General population	Dermal	Systemic effect	Long term	42.5 mg/kg/day
General population	Oral	Systemic effect	Long term	0.425 mg/kg/day
<b>PNEC</b>				
Fresh water	Marine water	Intermittent releases		Sewage Treatment Plant (STP)
		Fresh water	Marine water	
0.268 mg/kg	0.027 mg/kg	0.017 mg/l	not given	3.43 mg/l
<b>PNEC</b>				
Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators
8.1 mg/kg	6.8 mg/kg	no effect	35 mg/kg	no effect
<b>Sodium carbonate</b>				CAS: 497-19-8
<b>DNEL</b>				
Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Local effect	Long term	10 mg/m <sup>3</sup>
General population	Inhalation	Local effect	Acute/short term	10 mg/m <sup>3</sup>
<b>PNEC – not yet available</b>				
<b>Citral</b>				CAS: 5392-40-5
<b>DNEL</b>				
Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	9 mg/m <sup>3</sup>
Workers	Dermal	Systemic effect	Long term	1.7 mg/kg/day
Workers	Dermal	Local effect	Long term	140 µg/cm <sup>2</sup>
General population	Inhalation	Systemic effect	Long term	2.7 mg/m <sup>3</sup>
General population	Dermal	Systemic effect	Long term	1 mg/kg/day
General population	Dermal	Local effect	Long term	140 µg/cm <sup>2</sup>
General population	Oral	Systemic effect	Long term	0.6 mg/kg/day
<b>PNEC</b>				
Fresh water	Marine water	Intermittent releases		Sewage Treatment Plant (STP)
		Fresh water	Marine water	
0.007 mg/l	0.001 mg/l	0.068 mg/l	not given	1.6 mg/l
<b>PNEC</b>				

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Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators
0.125 mg/kg	0.013 mg/kg	no effect	0.021 mg/kg	no effect

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

Use only in well-ventilated areas.

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

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

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

##### Eye/face protection

Wear safety goggles when manufacturing and handling the product. They are not necessary when used by the consumer.

##### Skin protection - hand protection

Wear protective gloves when manufacturing and handling the product. They are not necessary when used by the consumer.

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

##### Skin protection - other

In normal use is not necessary, in case of prolonged contact with the product, wear protective work clothes and shoes.

##### Respiratory protection

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

##### Thermal hazards

In normal use is not necessary 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>	Solid.
<b>Colour</b>	Blue.
<b>Odour</b>	Fresh, fruity odour.
<b>Melting point/freezing point</b>	Not determined.
<b>Boiling point or initial boiling point and boiling range</b>	Not determined.

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<b>Flammability</b>	Not determined.
<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>	Not determined, the mixture does not contain self-reactive substances or organic peroxides.
<b>pH</b>	8 ( $\leq$ 1% solution).
<b>Kinematic viscosity</b>	Does not apply to solid.
<b>Solubility</b>	Soluble.
<b>Partition coefficient n-octanol/water (log value)</b>	Does not apply to mixture.
<b>Vapour pressure</b>	Not determined, the mixture does not contain volatile compounds.
<b>Density and/or relative density</b>	Not determined.
<b>Relative vapour density</b>	Does not apply to solid.
<b>Particle characteristics</b>	Not determined.
<b>Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts</b> CAS: 68411-30-3	
<b>Physical state</b>	Solid.
<b>Colour</b>	Not determined.
<b>Odour</b>	Not determined.
<b>Melting point/freezing point</b>	> 350 °C (ISO 1218)
<b>Boiling point or initial boiling point and boiling range</b>	> 400 °C (ASTM E 737-76)
<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>	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>	250 g/l (20 °C)
<b>Partition coefficient n-octanol/water (log value)</b>	1.4 (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>	$D_4^{20} = 0.776$ (OECD 109).

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<b>Relative vapour density</b>	Does not apply to solid.
<b>Particle characteristics</b>	Not determined.
<b>Sodium carbonate</b>	CAS: 497-19-8
<b>Physical state</b>	Solid.
<b>Colour</b>	White.
<b>Odour</b>	Odourless.
<b>Melting point/freezing point</b>	851 °C (decomposition, literature).
<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>	> 400 °C (literature).
<b>pH</b>	cca. 11.6 (ca. 0.1 M solution, literature).
<b>Kinematic viscosity</b>	Does not apply to solid.
<b>Solubility</b>	ca. 212.5 g/l (20 °C, pH > 11, OECD 105).
<b>Partition coefficient n-octanol/water (log value)</b>	Not determined, it is an inorganic substance.
<b>Vapour pressure</b>	Not determined, the substance has melting point higher than 300 °C.
<b>Density and/or relative density</b>	$D_4^{20} = 2.52 - 2.53$ (OECD 109).
<b>Relative vapour density</b>	Does not apply to solid.
<b>Particle characteristics</b>	D10 = 44 µm (OECD 110). D50 = 133 µm (OECD 110). D90 = 257 µm (OECD 110).
<b>Citral</b>	CAS: 5392-40-5
<b>Physical state</b>	Liquid.
<b>Colour</b>	Slightly yellowish.
<b>Odour</b>	Not determined.
<b>Melting point/freezing point</b>	< -20 °C (literature).
<b>Boiling point or initial boiling point and boiling range</b>	ca. 230 °C (OECD 113).
<b>Flammability</b>	The substance is not classified as flammable, pyrophoric or emit flammable gases under standard conditions.
<b>Lower explosion limit</b>	Not determined.
<b>Upper explosion limit</b>	Not determined.

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<b>Flash point</b>	98 °C (literature).
<b>Auto-ignition temperature</b>	225 °C (DIN 51 794).
<b>Decomposition temperature</b>	180 °C (OECD 113).
<b>pH</b>	Not determined.
<b>Kinematic viscosity</b>	Not determined, it is not a hydrocarbon or a chlorinated hydrocarbon.
<b>Solubility</b>	0.42 g/l (25 °C, OECD 105).
<b>Partition coefficient n-octanol/water (log value)</b>	2.76 (25 °C, OECD 107).
<b>Vapour pressure</b>	0.071 hPa (25 °C, dynamic method).
<b>Density and/or relative density</b>	0.89 (voda = 1, 20 °C, literature).
<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

The mixture contain substances classified as flammable liquid, but their concentration is < 0.1 wt. %.

##### Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts

CAS: 68411-30-3

##### Explosives

Data for the substance are not available.

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

##### Flammable gases

It is not gas.

##### Aerosols

It is not aerosol.

##### Oxidising gases

It is not gas.

##### Gases under pressure

It is not gas.

##### Flammable liquids

It is not liquid.

##### Flammable solids

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

##### Self-reactive substances and mixtures

Data for the substance are not available.

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

##### Pyrophoric liquids

It is not liquid.

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### ***Pyrophoric solids***

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

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

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

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

Data for the substance are not available.  
The substance is soluble in water and forms a stable mixture with it.

### ***Oxidising liquids***

It is not liquid.

### ***Oxidizing solids***

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

### ***Organic peroxides***

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

### ***Corrosive to metals***

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

### ***Desensitised explosives***

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

**Sodium carbonate**

CAS: 497-19-8

### ***Explosives***

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

### ***Flammable gases***

It is not gas.

### ***Aerosols***

It is not aerosol.

### ***Oxidising gases***

It is not gas.

### ***Gases under pressure***

It is not gas.

### ***Flammable liquids***

It is not liquid.

### ***Flammable solids***

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

### ***Self-reactive substances and mixtures***

Data for the substance are not available.

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

### ***Pyrophoric liquids***

It is not liquid.

### ***Pyrophoric solids***

Data for the substance are not available.

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

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

Data for the substance are not available.

The substance is not classified as self-heating.

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

Data for the substance are not available.

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

### ***Oxidising liquids***

It is not liquid.

### ***Oxidizing solids***

Data for the substance are not available.

It is an inorganic substance does not contain chemical groups associated with oxidising properties.

### ***Organic peroxides***

Data for the substance are not available.

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

### ***Corrosive to metals***

Data for the substance are not available.

The substance is not classified as corrosive to metal.

### ***Desensitised explosives***

Data for the substance are not available.

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

**Citral**

CAS: 5392-40-5

### ***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***

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It is not gas.

### **Gases under pressure**

It is not gas.

### **Flammable liquids**

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

### **Flammable solids**

It is not solid.

### **Self-reactive substances and mixtures**

Data for the substance are not available.

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

### **Pyrophoric liquids**

Data for the substance are not available.

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

### **Pyrophoric solids**

It is not solid.

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

Data for the substance are not available.

The substance is not classified as self-heating.

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

Data for the substance are not available.

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

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

### **Oxidising liquids**

Data for the substance are not available.

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

### **Oxidizing solids**

It is not solid.

### **Organic peroxides**

Data for the substance are not available.

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

### **Corrosive to metals**

Data for the substance are not available.

The substance is not classified as corrosive to metal.

### **Desensitised explosives**

Data for the substance are not available.

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

## **9.2.2. Other safety characteristics**

### **Mechanical sensitivity**

Not determined, it is not an explosive substance.

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<b>Self-accelerating polymerisation temperature</b>	Not determined, it is not a polymerising substance.
<b>Formation of explosible dust/air mixtures</b>	Not determined, it is not a dust.
<b>Acid/alkaline reserve</b>	Not determined.
<b>Evaporation rate</b>	Not determined.
<b>Miscibility</b>	Not determined.
<b>Conductivity</b>	Not determined.
<b>Corrosiveness</b>	Not determined.
<b>Gas group</b>	Not determined, it is not gas.
<b>Redox potential</b>	Not determined.
<b>Radical formation potential</b>	Not determined.
<b>Photocatalytic properties</b>	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

None known.

### 10.5. Incompatible materials

Strong acid and strong base.

### 10.6. Hazardous decomposition products

Burning releases carbon oxides, sulphur oxides, hydrogen sulphide 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

##### Oral

Data for the mixture are not available.  
The mixture is not classified by the additive formula.  
 $ATE_{\text{mixture}} = 3\ 600\ \text{mg/kg}$ .

##### Dermal

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

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

### **Skin corrosion/irritation**

Data for the mixture are not available.  
The mixture is 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 causes serious eye damage based on the general/specific concentration limits of substance(s).

### **Respiratory or skin sensitisation**

Data for the mixture are not available.  
The mixture is not classified as a skin sensitizing according to the general/specific concentration limits of substance(s).  
EUH208 - Contains Cineol, (R)-p-Mentha-1,8-diene, Citral. May produce an allergic reaction.

### **Germ cell mutagenicity**

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

### **Carcinogenicity**

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

### **Reproductive toxicity**

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

### **STOT – single exposure**

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

### **Aspiration hazard**

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

### **Other information**

See section 2 and 4.

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<b>Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts</b>	CAS: 68411-30-3
<b>Acute toxicity</b>	
<b>Oral</b>	The substance is classified in category 4. LD <sub>50</sub> = 1 080 mg/kg (rat, female, OECD 401).
<b>Dermal</b>	Based on available data, the classification criteria are not met. LD <sub>50</sub> > 2 000 mg/kg (rabbit, OECD 402).
<b>Inhalation</b>	Data for the substance are not available.
<b>Skin corrosion/irritation</b>	
The substance classified as skin irritant. Primary dermal irritation index PDII = 2.17 (max. 4, not fully reversible after 14 days) (rabbit, 72 hrs., OECD 404).	
<b>Serious eye damage/irritation</b>	
The substance classified as seriously damaging to the eyes. Overall irritation score = 1.75 (max. 4, not rinsed, not fully reversible after 14 days), 1 (max. 3, rinse after 4 seconds, reversible after 7 days), 1.06 (max. 2, rinse after 30 seconds, reversible after 14 days) (rabbit, 72 hrs., OECD 405).	
<b>Respiratory or skin sensitisation</b>	
Based on available data, the classification criteria are not met. Not skin sensitising (guinea pig, OECD 406).	
<b>Germ cell mutagenicity</b>	
Based on available data, the classification criteria are not met. Negative (OECD 471, OECD 473, OECD 476).	
<b>Carcinogenicity</b>	
Data for the substance are not available.	
<b>Reproductive toxicity</b>	
Based on available data, the classification criteria are not met. NOAEL = 350 mg/kg/day (rat, oral, generation P0, literature). NOAEL = 350 mg/kg/day (rat, oral, generation F1, literature). NOAEL = 350 mg/kg/day (rat, oral, generation F2, literature).	
<b>STOT – single exposure</b>	
Data for the substance are not available.	
<b>STOT – repeated exposure</b>	
Based on available data, the classification criteria are not met. NOAEL = 85 mg/kg/day (rat, oral, literature). LOAEL = 300 mg/kg/day (rat, oral, literature).	
<b>Aspiration hazard</b>	
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.	
<b>Sodium carbonate</b>	CAS: 497-19-8
<b>Acute toxicity</b>	

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**Oral** Based on available data, the classification criteria are not met.  
LD<sub>50</sub> = 2 800 mg/kg (rat, female)

**Dermal** Based on available data, the classification criteria are not met.  
LD<sub>50</sub> > 2 000 mg/kg (rabbit, EPA 16 CFR 1500.40)

**Inhalation** Based on available data, the classification criteria are not met.  
LC<sub>50</sub> > 2 300 mg/m<sup>3</sup> (rat, male, aerosol, 2 hrs)

### **Skin corrosion/irritation**

Based on available data, the classification criteria are not met.  
Mean erythema score = 0 and oedema = 0 (rabbit, 72 hrs., OECD 404).

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

The substance classified as eye irritant.  
Mean score of corneal opacity = 0, iritis = 0.25 (fully reversible after 72 hours), conjunctival redness = 1.67 (fully reversible after 72 hours), conjunctival oedema = 1.38 (fully reversible after 72 hours) (rabbit, 72 h, OECD 405).

### **Respiratory or skin sensitisation**

Data for the substance are not available.

### **Germ cell mutagenicity**

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

### **Carcinogenicity**

Data for the substance are not available.

### **Reproductive toxicity**

Data for the substance are not available.

### **STOT – single exposure**

Data for the substance are not available.

### **STOT – repeated exposure**

Based on available data, the classification criteria are not met.  
NOAEL > 10 mg/m<sup>3</sup> (human, inhalation, dust).

### **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.

**Citral**

CAS: 5392-40-5

### **Acute toxicity**

**Oral** Based on available data, the classification criteria are not met.  
LD<sub>50</sub> = ca. 6 800 mg/kg (rat).

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

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

### **Skin corrosion/irritation**

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The substance classified as skin irritant.

Mean erythema score = 2.75 and oedema = 2.25 (not fully reversible after 8 days) (rabbit, 72 hrs., OECD 404).

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

The substance classified as eye irritant.

Mean score of corneal opacity = 1.0 (fully reversible after ), iritis = 0, conjunctival redness = 1.5 (not fully reversible after 8 days), conjunctival oedema = 1.25 (fully reversible after 7 days) (rabbit, 72 hrs., OECD 405).

### **Respiratory or skin sensitisation**

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

### **Germ cell mutagenicity**

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

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

### **Carcinogenicity**

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

NOAEL = 100 mg/kg/day (toxicity, rat, oral, OECD 453).

NOAEL = 210 mg/kg/day (toxicity, rat, oral, OECD 453).

### **Reproductive toxicity**

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

NOAEL = 200 mg/kg/day (parental toxicity, oral, rat, generation P0, OECD 421).

NOAEL = 1 000 mg/kg/day (reproductive toxicity, oral, rat, generation P0, OECD 421).

NOAEL = 200 mg/kg/day (development toxicity, oral, rat, generation F1, OECD 421).

### **STOT – single exposure**

Data for the substance are not available.

### **STOT – repeated exposure**

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

LOAEL = 345 mg/kg/day (body weight change, oral, rat, male, 90 days, OECD 408).

LOAEL = 335 mg/kg/day (body weight change, oral, rat, female, 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.

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

Mixture do 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 do 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**

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## CLEAMEN 322

### 12.1. Toxicity

#### Mixture

Data for the mixture are not available.

#### Acute aquatic toxicity

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

category 1

$\Sigma < 1$

#### Chronic aquatic toxicity

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

category	1	2	3	4
$\Sigma$	< 1	< 13	< 160	non relevant

#### Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts

CAS: 68411-30-3

The substance is classified as Aquatic Chronic 3; H412.

#### Fish

LC<sub>50</sub>, 96 hrs., Lepomis macrochirus: 1.67 mg/l (mortality).

NOEC, 28 d., Oncorhynchus mykiss: 0.23 mg/l (mortality, OECD 210).

#### Crustaceans

EC<sub>50</sub>, 48 hrs., Daphnia Magna: 2.9 mg/l (mobility, OECD 202).

NOEC, 21 d., Daphnia Magna: 0.27 mg/l (survival and reproduction, OECD 211).

#### Algae

EC<sub>50</sub>, 72 hrs., Pseudokirchneriella subcapitata: 235 mg/l (growth rate, OECD 201).

EC<sub>10</sub>, 96 hrs., Pseudokirchneriella subcapitata: 13.1 mg/l (growth rate, OECD 201).

#### Sodium carbonate

CAS: 497-19-8

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

#### Fish

LC<sub>50</sub>, 96 hrs., Lepomis macrochirus: 300 mg/l (mortality).

#### Crustaceans

EC<sub>50</sub>, 48 hrs., Ceriodaphnia sp.: 200 - 227 mg/l (mobility).

#### Algae

EC<sub>50</sub>: 10 - 100 mg/l (estimated, data is assessment based on pH).

NOEC: 1 - 10 mg/l (estimated, data is assessment based on pH).

#### Citral

CAS: 5392-40-5

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

#### Fish

LC<sub>50</sub>, 96 hrs., Leuciscus idus: 6.78 mg/l (mortality, DIN 38412).

NOEC, 96 hrs., Leuciscus idus: 4.6 mg/l (mortality, DIN 38412).

#### Crustaceans

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## CLEAMEN 322

EC<sub>50</sub>, 48 hrs., Daphnia Magna: 6.8 mg/l (mobility).

EC<sub>0</sub>, 48 hrs., Daphnia Magna: 3.13 mg/l (mobility).

### Algae

EC<sub>50</sub>, 72 hrs., Desmodesmus subspicatus: 103.8 mg/l (growth rate, DIN 38412).

EC<sub>10</sub>, 72 hrs., Desmodesmus subspicatus: 3 mg/l (growth rate, DIN 38412).

## 12.2. Persistence and degradability

### Mixture

Data for the mixture are not available.

### Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts

CAS: 68411-30-3

Readily biodegradable: 85 % after 29 days (CO<sub>2</sub> evolution, OECD 301 B).

### Sodium carbonate

CAS: 497-19-8

Not determined, it is an inorganic substance.

### Citral

CAS: 5392-40-5

Readily biodegradable: 85 - 95 % after 28 days (O<sub>2</sub> consumption, OECD 301 D).

## 12.3. Bioaccumulative potential

### Mixture

Data for the mixture are not available.

### Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts

CAS: 68411-30-3

BCF, Oncorhynchus mykiss = 87 l/kg (OECD 305 E).

log Pow = 1.4 (23 °C, pH = 6.1, OECD 123).

### Sodium carbonate

CAS: 497-19-8

Not determined, it is an inorganic substance.

### Citral

CAS: 5392-40-5

BCF = 89.72 (calculation).

log Pow = 2.76 (25 °C, OECD 107).

## 12.4. Mobility in soil

### Mixture

Data for the mixture are not available.

### Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts

CAS: 68411-30-3

Data for the substance are not available.

### Sodium carbonate

CAS: 497-19-8

Not determined, it is an inorganic substance.

### Citral

CAS: 5392-40-5

log Koc = 2.169 (calculation).

## 12.5. Results of PBT and vPvB assessment

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

#### **Possible waste code**

20 01 29\* - detergents containing hazardous substances (mixture), 15 01 10\* - packaging containing residues of or contaminated by hazardous substances (contaminated packaging), 15 01 02 - plastic packaging (clear packaging).

#### **Physical/chemical properties that may affect waste treatment options**

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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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

Revision of all sections according to Commission Regulation (EU) 2020/878. 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. The values in sections 8, 9, 11 and 12 are added according to the registration dossier of compounds.

### Key or legend to abbreviations and acronyms

Acute Tox. 4	Acute toxicity, cat. 4
Aquatic Acute 1	Acute aquatic hazard, cat. 1
Aquatic Chronic 1	Chronic aquatic hazard, cat. 1
Aquatic Chronic 2	Chronic aquatic hazard, cat. 2
Aquatic Chronic 3	Chronic aquatic hazard, cat. 3
Asp. Tox. 1	Aspiration hazard, cat. 1
Eye Dam. 1	Serious eye damage, cat. 1
Eye Irrit. 2	Eye irritation, cat. 2
Flam. Liq. 3	Flammable liquid, cat. 3
Skin Irrit. 2	Skin irritation, cat. 2
Skin Sens. 1	Skin sensitization, cat. 1
Skin Sens. 1B	Skin sensitization, cat. 1B
ADR	Accord Dangereuses Route

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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**

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
P102	Keep out of reach of children.
P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P501	Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### **Training advice**

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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.