SAFETY DATA SHEET

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

CLEAMEN 320

Date of revision:	**28. 04. 2025**	Version: **1.1**
Replaced version from:	**23. 06. 2022**	
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SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1. Product identifier

Product Name

CLEAMEN 320

UFI code

UFI: 5160-70U5-Q00T-4WY0

Product code

VC320XXXX99

Mixture description

Mixture of chemical substances.

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

Identified uses

Urinal tablets avoids creation of sediments, water and urinal stone and release nice intensive scent, which neutralize unpleasant smell of urea.

Professional and consumer 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
Tel.: +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
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.
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 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.
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

Mandatory additional information is not required according to CLP regulation.

Composition according to regulation 648/2004/EC on detergents: ≥ 30% anionic surfactants, < 5% non-ionic surfactants, perfumes.

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
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts			
CAS Number	68411-30-3	25 - < 50	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412 ATE_{oral} = 1 080 mg/kg bw
EC Number	270-115-0		
Index Number	not given		
Registration Number	01-2119489428-22-XXXX		
Sodium carbonate			
CAS Number	497-19-8	25 - < 50	Eye Irrit. 2; H319
EC Number	207-838-8		
Index Number	011-005-00-2		
Registration Number	01-2119485498-19-XXXX		
Alcohols, C16-18, ethoxylated (20 EO)			
CAS Number	68439-49-6	1 - < 2.5	Eye Irrit. 2; H319
EC Number	not given		
Index Number	not given		
Registration Number	is not subject to registration, it is a polymer		
Sulphuric acid			
CAS Number	7664-93-9	< 1	Skin Corr. 1A; H314
EC Number	231-639-5		
Index Number	016-020-00-8		
Registration Number	01-2119458838-20-XXXX		
The substance has specific concentration limits:			
Skin Corr. 1A; H314	C ≥ 15 %		
Skin Irrit. 2; H315	5 % ≤ C < 15 %		
Eye Irrit. 2; H319	5 % ≤ C < 15 %		
Diphenyl ether			

CAS Number	101-84-8	< 1	Eye Irrit. 2; H319
EC Number	202-981-2		Aquatic Acute 1; H400
Index Number	not given		Aquatic Chronic 3; H412
Registration Number	01-2119472545-33-XXXX		M=1

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

SECTION 4: First aid measures

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

4.1. Description of first aid measures

Inhalation

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

Skin contact

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

Eye contact

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

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 vapour and aerosol.

Smoking, eating and drinking should be prohibited at the place of use. Keep safety regulations for handling chemicals. Take off contaminated clothing and protective equipment before entering the dining area. Do not use dirty clothing. After work wash yourself carefully with warm water and soap, take a shower. Use protective cream.

7.2. Conditions for safe storage, including any incompatibilities

Store in original, tightly closed containers, in a dry, cool and well-ventilated place at temperature 5- 40 °C.

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

Sulphuric acid - mist				CAS: 7664-93-9
Limit values - Eight hours		Limit values - Short-term		Note
0.05 mg/m^3	- ppm	- mg/m^3	-	none
Diphenyl ether				CAS: 101-84-8
Limit values - Eight hours		Limit values - Short-term		Note

7 mg/m^3	1 ppm	14 mg/m^3	2 ppm	none

8.1.2. Biological limit values

Not determined in EU.

8.1.3. DNEL and PNEC values

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

DNEL

Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	7.6 mg/m3
Workers	Dermal	Systemic effect	Long term	119 mg/kg/day
General population	Inhalation	Systemic effect	Long term	1.3 mg/m3
General population	Dermal	Systemic effect	Long term	42.5 mg/kg/day
General population	Oral	Systemic effect	Long term	0.425 mg/kg/day

PNEC

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

PNEC

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

Sodium carbonate CAS: 497-19-8

DNEL

Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Local effect	Long term	10 mg/m^3
General population	Inhalation	Local effect	Acute/short term	5 mg/m^3

PNEC – not available

Sulphuric acid CAS: 7664-93-9

DNEL

Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Local effect	Long term	0.05 mg/m^3
Workers	Inhalation	Local effect	Acute/short term	0.1 mg/m^3

PNEC - not available

Diphenyl ether CAS: 101-84-8

DNEL

Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	1.8 mg/m^3
Workers	Inhalation	Local effect	Long term	7 mg/m^3

Workers	Inhalation	Local effect	Acute/short term	14 mg/m^3
General population	Dermal	Systemic effect	Long term	0.7 mg/kg/day

PNEC

Fresh water	Marine water	Intermittent releases		Sewage Treatment Plant (STP)
		Fresh water	Marine water	
0.016 mg/l	0.002 mg/l	0.005 mg/l	not given	10 mg/l

PNEC

Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators
3.29 mg/kg	0.329 mg/kg	not given	0.648 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 or face shield when manufacturing and handling the product (EN 166, EN 149+A1).

Skin protection - hand protection

Wear protective gloves when manufacturing and handling the product (EN 374-1, EN 374-2).

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 footwear.

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, 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	Solid.
Colour	Green.
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	Does not apply to solid.
Upper explosion limit	Does not apply to solid.
Flash point	Does not apply to solid.
Auto-ignition temperature	Does not apply to solid.
Decomposition temperature	Not determined, the mixture does not contain self-reactive substances or organic peroxides or other substances which may decompose.
pH	9.2 – 11.2 (1% aqueous solution).
Kinematic viscosity	Does not apply to solid.
Solubility	Soluble.
Partition coefficient n-octanol/water (log value)	Does not apply to mixture.
Vapour pressure	Not determined, the mixture does not contain volatile compounds.
Density and/or relative density	D_4^{20} = 1.456.
Relative vapour density	Does not apply to solid.
Particle characteristics	Not determined.
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	CAS: 68411-30-3
Physical state	Solid.
Colour	Not determined.
Odour	Not determined.
Melting point/freezing point	> 350 °C (ISO 1218)
Boiling point or initial boiling point and boiling range	> 400 °C (ASTM E 737-76)
Flammability	The substance is not classified as flammable (EU method A.10)
Lower explosion limit	Does not apply to solid.
Upper explosion limit	Does not apply to solid.
Flash point	Does not apply to solid.
Auto-ignition temperature	Does not apply to solid.

Decomposition temperature	Not determined, it is not a self-reactive substance or an organic peroxide or a substance that may decompose.
pH	Not determined.
Kinematic viscosity	Does not apply to solid.
Solubility	250 g/l (20 °C)
Partition coefficient n-octanol/water (log value)	1.4 (23 °C, pH = 6.1, OECD 123)
Vapour pressure	Not determined, the substance has melting point higher than 300 °C.
Density and/or relative density	D_4^{20} = 0.776 (OECD 109).
Relative vapour density	Does not apply to solid.
Particle characteristics	Not determined.
Sodium carbonate	CAS: 497-19-8
Physical state	Solid.
Colour	White.
Odour	Odourless.
Melting point/freezing point	851 °C (decomposition, literature).
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	> 400 °C (literature).
pH	cca. 11.6 (ca. 0.1 M solution, literature).
Kinematic viscosity	Does not apply to solid.
Solubility	ca. 212.5 g/l (20 °C, pH > 11, OECD 105).
Partition coefficient n-octanol/water (log value)	Not determined, it is an inorganic substance.
Vapour pressure	Not determined, the substance has melting point higher than 300 °C.
Density and/or relative density	D_4^{20} = 2.52 - 2.53 (OECD 109).
Relative vapour density	Does not apply to solid.
Particle characteristics	D10 = 44 µm (OECD 110). D50 = 133 µm (OECD 110). D90 = 257 µm (OECD 110).
Sulphuric acid	CAS: 7664-93-9
Physical state	Liquid.

Colour	Colourless.
Odour	Odourless.
Melting point/freezing point	-15 °C (95 - 98% solution).
Boiling point or initial boiling point and boiling range	330 °C (95 - 98% solution).
Flammability	The substance is not classified as flammable, pyrophoric or emit flammable gases under standard conditions.
Lower explosion limit	Not determined.
Upper explosion limit	Not determined.
Flash point	Not determined, it is an inorganic substance.
Auto-ignition temperature	Not determined.
Decomposition temperature	Not determined, it is not a self-reactive substance or an organic peroxide or a substance that may decompose.
pH	< 1.
Kinematic viscosity	Not determined, it is not a hydrocarbon or a chlorinated hydrocarbon.
Solubility	Miscible with water.
Partition coefficient n-octanol/water (log value)	Not determined, it is an inorganic substance.
Vapour pressure	0.485 hPa (75% sulphuric acid, OECD 104).
Density and/or relative density	D_4^{20} = 1.84 (93 - 100% sulphuric acid, OECD 109).
Relative vapour density	Not determined.
Particle characteristics	Does not apply to liquid.
Diphenyl ether	CAS: 101-84-8
Physical state	Solid.
Colour	White.
Odour	Floral.
Melting point/freezing point	26.87 °C (literature).
Boiling point or initial boiling point and boiling range	258 °C (literature).
Flammability	Not determined.
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	618 °C (literature).
Decomposition temperature	Not determined, it is not a self-reactive substance or an organic peroxide or a substance that may decompose.
pH	Not determined.

Kinematic viscosity	Does not apply to solid.
Solubility	18 mg/l (25 °C, OECD 105).
Partition coefficient n-octanol/water (log value)	log Pow = 4.21 (25 °C, literature).
Vapour pressure	0.02 mm Hg (25 °C, literature).
Density and/or relative density	1.075 g/cm^3 (20 °C, literature).
Relative vapour density	Does not apply to solid.
Particle characteristics	Not determined.

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Mixture

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

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

Explosives

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

Flammable gases

It is not gas.

Aerosols

It is not aerosol.

Oxidising gases

It is not gas.

Gases under pressure

It is not gas.

Flammable liquids

It is not liquid.

Flammable solids

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

Self-reactive substances and mixtures

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

Pyrophoric liquids

It is not liquid.

Pyrophoric solids

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

Self-heating substances and mixtures

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

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

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

Oxidising liquids

It is not liquid.

Oxidizing solids

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

Organic peroxides

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

Corrosive to metals

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

Desensitised explosives

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

Sodium 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

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.
Sulphuric acid CAS: 7664-93-9
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

Data for the substance are not available.
The substance is not classified as a flammable liquid, it is an inorganic substance.

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

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.

Diphenyl ether CAS: 101-84-8

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
Data for the substance are not available. The substance is not classified as flammable solid.
Self-reactive substances and mixtures
Data for the substance are not available. The substance does not contain chemical groups associated with explosive or self-reactive properties.
Pyrophoric liquids
It is not liquid.
Pyrophoric solids
Data for the substance are not available. The substance is stable in air, there is no spontaneous ignition.
Self-heating substances and mixtures
Data for the substance are not available. The substance is not classified as self-heating.
Substances and mixtures, which emit flammable gases in contact with water
Data for the substance are not available. The 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.

9.2.2. Other safety characteristics

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

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions aren´t known under normal conditions of use.

10.4. Conditions to avoid

Protect from temperatures below 0 °C.

10.5. Incompatible materials

Strong base.

10.6. Hazardous decomposition products

They do not form under normal use. 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

The mixture is not classified as toxic for all routes of exposure.

Oral	Data for the mixture are not available. The mixture is not classified by the additive formula. $ATE_{mixture}$ > 2 160 mg/kg bw.
Dermal	Data for the mixture are not available. The mixture does not contain substances classified as an acute toxicity by dermal route of exposure or the concentration of substance(s) is lower than the limit for inclusion in Section 3.
Inhalation	Data for the mixture are not available. The mixture does not contain substances classified as an acute toxicity by inhalation route of exposure or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

Skin corrosion/irritation

Data for the mixture are not available.

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

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

Other information

See sections 2 and 4.

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

Acute toxicity

Oral	The substance is classified in category 4. LD_{50} = 1 080 mg/kg bw (rat, female, OECD 401).
Dermal	Based on available data, the classification criteria are not met. LD_{50} > 2 000 mg/kg bw (rabbit, OECD 402).
Inhalation	Data for the substance are not available.

Skin corrosion/irritation

The substance is classified as skin irritant.

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

Serious eye damage/irritation

The substance is classified as seriously damaging to the eyes.

Overall irritation score = 1.75 (max. 4, not rinsed, not fully reversible after 14 days), 1 (max. 3, rinse after 4 seconds, reversible after 7 days), 1.06 (max. 2, rinse after 30 seconds, reversible after 14 days) (rabbit, 72 hrs., OECD 405).

Respiratory or skin sensitisation

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

Not skin sensitising (guinea pig, OECD 406).

Germ cell mutagenicity

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

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

Carcinogenicity

Data for the substance are not available.

Reproductive toxicity

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

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

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

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

STOT – single exposure

Data for the substance are not available.

STOT – repeated exposure

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

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

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

Aspiration hazard

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

Sodium carbonate CAS: 497-19-8

Acute toxicity

Oral Based on available data, the classification criteria are not met.
LD_{50} = 2 800 mg/kg bw (rat, female)

Dermal Based on available data, the classification criteria are not met.
LD_{50} > 2 000 mg/kg bw (rabbit, EPA 16 CFR 1500.40)

Inhalation Based on available data, the classification criteria are not met.
LC_{50} > 2 300 mg/m^3 (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 is 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^3 (human, inhalation, dust).

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.

Sulphuric acid CAS: 7664-93-9

Acute toxicity

Oral Based on available data, the classification criteria are not met.
LD_{50} = 2 140 mg/kg bw (rat, literature).

Dermal	Data for the substance are not available.
Inhalation	Based on available data, the classification criteria are not met. LC_{50} = 375 mg/m^3 (rat, 4 h, aerosol, OECD 403).

Skin corrosion/irritation

The substance is classified as skin corrosion in category 1A according to harmonized classification.

Serious eye damage/irritation

The substance is classified as seriously damaging to the eyes according to harmonized classification.

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 (bacterial reverse mutation assay, in vitro mammalian chromosome aberration test).

Carcinogenicity

Based on available data, the classification criteria are not met.
NOAEL = 0.5 ml (0.6% solution, rat, oral).
NOAEC = 100 mg/l (hamster, inhalation-aerosol).

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.
LOAEC = 0.3 mg/m^3 (rat, inhalation-aerosol, 28 days, OECD 412).

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.

Diphenyl ether CAS: 101-84-8

Acute toxicity

Oral	Based on available data, the classification criteria are not met. LD_{50} = 2 830 mg/kg bw (rat, female, literature).
Dermal	Based on available data, the classification criteria are not met. LD_{50} > 7 940 mg/kg bw (rabbit, literature).
Inhalation	Data for the substance are not available.

Skin corrosion/irritation

Based on available data, the classification criteria are not met.
Mean erythema score = 1.8 (not fully reversible after 14 days) and oedema = 0.17 (fully reversible after 7 days) (rabbit, 72 hrs., OECD 404).

Serious eye damage/irritation

The substance is classified as eye irritant (rabbit, literature).

Respiratory or skin sensitisation

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

Not skin sensitising (human, male, maximization test).

Germ cell mutagenicity

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

Negative (bacterial reverse mutation assay, mammalian cell gene mutation assay, in vitro mammalian chromosome aberration test).

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 = 301 mg/kg/day (rat, male, oral, 90 days, OECD 408).

NOEL = 335 mg/kg/day (rat, female, oral, 90 days, OECD 408).

Aspiration hazard

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

11.2. Information on other hazards

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

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

SECTION 12: Ecological information

12.1. Toxicity

Mixture

Data for the mixture are not available.

Acute aquatic toxicity

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

category 1	$\sum < 1.0$

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	0	< 50	not relevant

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

The substance is classified as Aquatic Chronic 3; H412.

Fish

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

Crustaceans

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

Algae

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

Sodium carbonate CAS: 497-19-8

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

Fish

LC_{50}, 96 hrs., Lepomis macrochirus: 300 mg/l (mortality).

Crustaceans

EC_{50}, 48 hrs., Ceriodaphnia sp.: 200 - 227 mg/l (mobility).

Algae

EC_{50}: 10 - 100 mg/l (estimated, data is assessment based on pH).
NOEC: 1 - 10 mg/l (estimated, data is assessment based on pH).

Sulphuric acid CAS: 7664-93-9

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

Fish

LC_{50}, 96 hrs., Lepomis macrochirus: > 16 - < 28 mg/l (mortality, literature).
NOEC, Salvelinus fontinalis: 0.31 mg/l (larval development, literature).

Crustaceans

EC_{50}, 24 hrs., Daphnia Magna: > 100 mg/l (mobility, OECD 202).

Algae

EC_{50}, 72 hrs., Desmodesmus subspicatus: > 100 mg/l (growth rate, OECD 201).

Diphenyl ether CAS: 101-84-8

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

Fish

LC_{50}, 96 hrs., Oncorhynchus mykiss: 4.2 mg/l (mortality, literature).

Crustaceans

EC_{50}, 48 hrs., Daphnia Magna: 1.96 mg/l (mobility, literature).

Algae

EC_{50}, 72 hrs., Pseudokirchneriella subcapitata: 0.455 mg/l (growth rate, literature).
EC_{50}, 72 hrs., Pseudokirchneriella subcapitata: 0.304 mg/l (biomass, literature).
NOEC, 72 hrs., Pseudokirchneriella subcapitata: 0.24 mg/l (growth rate, literature).
NOEC, 72 hrs., Pseudokirchneriella subcapitata: 0.188mg/l (biomass, literature).

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_2 evolution, OECD 301 B).

Sodium carbonate CAS: 497-19-8

Not determined, it is an inorganic substance.

Sulphuric acid CAS: 7664-93-9

Not determined, it is an inorganic substance.

Diphenyl ether CAS: 101-84-8

Readily biodegradable: 76 % after 28 days (O_2 consumption, literature).

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.

Sulphuric acid CAS: 7664-93-9

Not determined, it is an inorganic substance.

Diphenyl ether CAS: 101-84-8

BCF, Oncorhynchus mykiss: 155 - 200 (literature).
log Pow = 4.21 (25 °C, literature).

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.

Sulphuric acid CAS: 7664-93-9

Not determined, it is an inorganic substance.

Diphenyl ether	CAS: 101-84-8

log Koc = 3.3 (25 °C, literature).

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

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

12.7. Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods of the substance or mixture and the contaminated packaging

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

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

Possible waste code

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

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

It has not been carried out for mixture.

SECTION 16: Other information

Reason for the revision of the safety data sheet

Change in sections 2, 8, 11, 12, 13 and 16.

Key or legend to abbreviations and acronyms

Acute Tox. 4	Acute toxicity, cat. 4
Aquatic Acute 1	Acute aquatic hazard, cat. 1
Aquatic Chronic 3	Chronic aquatic hazard, cat. 3
Eye Dam. 1	Serious eye damage, cat. 1
Eye Irrit. 2	Eye irritation, cat. 2
Skin Corr. 1A	Skin corrosion, cat. 1A
Skin Irrit. 2	Skin irritation, 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

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.
P102	Keep out of reach of children.
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 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.
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 safety data sheet has been prepared according to the best available knowledge. The safety data sheet has been compiled in good faith but without guarantee. Various factors may influence properties under specific conditions. It is the responsibility of the product user to assess the accuracy of the information for their specific application. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

The safety data sheet is prepared in accordance with Regulation No. 2020/878/EC. 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 prepared by LACHEPRA s.r.o.