# SAFETY DATA SHEET

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

## CLEAMEN 613

Date of issue: **05. 12. 2021** Version: **1.0**

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

### *1.1. Product identifier*

***Product Name***

**CLEAMEN 613**

***UFI code***

UFI: UQD0-Q0P4-M00E-QJE1

***Product code***

Not given.

***Mixture description***

Aqueous solution of hydroxide, surfactants and other chemicals

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

***Identified uses***

Liquid strongly alkaline foaming cleanser. Can be used on surfaces of stainless steel, iron, ceramics and plastics resistant to alkali.

For professional use only.

***Uses advised against***

Not recommended for use on surfaces made of aluminum or non-ferrous metals.

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***

**Met. Corr. 1; H290**
**Skin Corr. 1A; H314**
**Eye Dam. 1; H318**

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

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

May be corrosive to metals. Causes severe skin burns and eye damage.

## 2.2. Label elements

***Hazard pictograms***

***Signal word***

Danger.

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

Contains Sodium hydroxide, D-Glucopyranose, oligomers, decyl octyl glycosides, D-Glucopyranose, oligomeric, C10-16 alkyl glycosides, Etidronic acid.

***Hazard statements***

| | |
|---|---|
| H290 | May be corrosive to metals. |
| H314 | Causes severe skin burns and eye damage. |

***Precautionary statements***

| | |
|---|---|
| P234 | Keep only in original packaging. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P301+P330+P331 | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. |
| P310 | Immediately call a POISON CENTER/doctor. |
| P501 | Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. |

***Supplemental hazard information***

Mandatory additional information is not required according to CLP regulation.

Composition according to regulation 648/2004/EC on detergents: ≥ 5 - < 15 % non-ionic surfactants, < 5% amphoteric surfactants, phosphonates.

## 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 |
|---|---|---|---|---|
| **Sodium hydroxide; Caustic soda** | | | | |
| CAS Number | 1310-73-2 | | < 25.0 | Met. Corr. 1; H290<br>Skin Corr. 1A; H314<br>Eye Dam. 1; H318 |
| EC Number | 215-185-5 | | | |
| Index Number | 011-002-00-6 | | | |
| Registration Number | 01-2119457892-27-XXXX | | | |
| The substance has specific concentration limits: | | | | |
| Skin Corr. 1A; H314 | | C ≥ 5 % | | |
| Skin Corr. 1B; H314 | | 2 % ≤ C < 5 % | | |
| Skin Irrit. 2; H315 | | 0.5 % ≤ C < 2 % | | |
| Eye Irrit. 2; H319 | | 0.5 % ≤ C < 2 % | | |
| **D-Glucopyranose, oligomers, decyl octyl glycosides** | | | | |
| CAS Number | 68515-73-1 | | < 5.5 | Eye Dam. 1; H318 |
| EC Number | 500-220-1 | | | |
| Index Number | not given | | | |
| Registration Number | 01-2119488530-36-XXXX | | | |
| **D-Glucopyranose, oligomeric, C10-16 (even numbered) alkyl glycosides** | | | | |
| CAS Number | 110615-47-9 | | < 2.0 | Skin Irrit. 2; H315<br>Eye Dam. 1; H318 |
| EC Number | 600-975-8 | | | |
| Index Number | not given | | | |
| Registration Number | 01-2119489418-23-XXXX | | | |
| The substance has specific concentration limits: | | | | |
| Eye Dam. 1; H318 | | C > 12 % | | |
| Skin Irrit. 2; H315 | | C > 30 % | | |
| **Etidronic acid** | | | | |
| CAS Number | 2809-21-4 | | < 2.0 | Met. Corr. 1; H290<br>Acute Tox. 4; H302<br>Eye Dam. 1; H318 |
| EC Number | 220-552-8 | | | |
| Index Number | not given | | | |
| Registration Number | 01-2119510391-53-XXXX | | | |
| **Acetic acid** | | | | |

| | | | |
|---|---|---|---|
| CAS Number<br>EC Number<br>Index Number<br>Registration Number | 64-19-7<br>200-580-7<br>607-002-00-6<br>not yet available | ≤ 0.03 | Flam. Liq. 3; H226<br>Skin Corr. 1A; H314 |

The substance has specific concentration limits:

| | |
|---|---|
| Skin Corr. 1A; H314 | C ≥ 90 % |
| Skin Corr. 1B; H314 | 25 % ≤ C < 90 % |
| Skin Irrit. 2; H315 | 10 % ≤ C < 25 % |
| Eye Irrit. 2; H319 | 10 % ≤ C < 25 % |

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 thoroughly with water (preferably lukewarm) and soap. Do not use solvents or thinners. Seek medical advice.

***Eye contact***

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

***Ingestion***

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

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

Are not known.

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

Treat symptomatically and supportively.

## SECTION 5: Firefighting measures

### *5.1. Extinguishing media*

***Suitable extinguishing media***

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, phosphor oxides, phosphine and products of incomplete combustion.

### *5.3. Advice for firefighters*

Stop further leakage of product if possible. Spilled product, which does not burn, cover with sand or foam. Move containers and barrels away from the fire to a safe place, if possible. Cool all affected containers down with flooding quantities of water. If the fire can´t be extinguished - evacuate the premises.

In case of fire, wear suitable respiratory protective equipment and fire-fighting suit.

## SECTION 6: Accidental release measures

### *6.1. Personal precautions, protective equipment and emergency procedures*

Avoid contact with skin and eyes, use suitable protective equipment and clothing, see Section 8. Ensure adequate ventilation. Avoid formation of vapour and aerosol. At the point of leakage, prevent the movement of unauthorized persons.

### *6.2. Environmental precautions*

Prevent further leakage or spillage if safe to do so. If this cannot be avoided, inform the competent authorities (police and firefighters) immediately.

### *6.3. Methods and material for containment and cleaning up*

According to the amount of spilled liquid, drain away the substance (large spillage) or in case of small spillage, absorb it with suitable absorbent (vermiculite, dry sand), put into labelled closed containers and dispose of them accordingly to Section 13. Flush residues with water and collect it for waste disposal. Do not use solvents or dispersants unless instructed by an expert or government authority.

If container is damaged, remove the content to the new undamaged container and label it properly again.

### *6.4. Reference to other sections*

Refer also to the provisions of sections 7, 8 and 13 of this safety data sheet.

## SECTION 7: Handling and storage

### *7.1. Precautions for safe handling*

Avoid contact with skin and eyes. Personal protection see. Section 8. Ensure good ventilation to prevent formation of vapor and aerosol.

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

### *7.2. Conditions for safe storage, including any incompatibilities*

Store in original, tightly closed containers, in a dry, cool and well-ventilated place at room temperature.

Protect from frost.

Do not store together with acids.

Do not store together with incompatible materials (see subsection 10.5), food, drink and feed.

### *7.3. Specific end use(s)*

The cleanser is designed for the efficient removal of smoke resins in various areas of industry and removes fats, oil residues, proteins, blood, burnt and very resistant dirt, tar, etc. It can be used for example in cleaning systems of smokehouse operations, industrial cleaning grills, ducting and hot air generators, to clean very dirty floors, etc.

## SECTION 8: Exposure controls/personal protectio

### *8.1. Control parameters*

#### *8.1.1. Exposure limit value*

**Acetic acid** CAS: 64-19-7

| Limit values - Eight hours | | Limit values - Short-term | | Note |
|---|---|---|---|---|
| 25 mg/m$^3$ | 10 ppm | 50 mg/m$^3$ | 20 ppm | none |

#### *8.1.2. Biological limit values*

Not determined in EU.

#### *8.1.3. DNEL and PNEC values*

**Sodium hydroxide** CAS: 1310-73-2

**DNEL**

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

**PNEC** - not yet available

**D-Glucopyranose, oligomers, decyl octyl glycosides** CAS: 68515-73-1

**DNEL**

| Area of use | Route of exposure | Effect | Exposure time | Value |
|---|---|---|---|---|
| Workers | Inhalation | Systemic effect | Long term | 420 mg/m$^3$ |
| Workers | Dermal | Systemic effect | Long term | 595 000 mg/kg/day |
| General population | Inhalation | Systemic effect | Long term | 124 mg/m$^3$ |
| General population | Dermal | Systemic effect | Long term | 357 000 mg/kg/day |
| General population | Oral | Systemic effect | Long term | 35.7 mg/kg/day |

**PNEC**

| Fresh water | Marine water | Intermittent releases | | Sewage Treatment Plant (STP) |
|---|---|---|---|---|
| | | Fresh water | Marine water | |
| 0.176 mg/l | 0.018 mg/l | 0.27 mg/l | not given | 560 mg/l |

**PNEC**

| Sediment (freshwater) | Sediment (marine water) | Air | Soil | Hazard for predators |
|---|---|---|---|---|
| 1.516 mg/l | 0.152 mg/kg | not given | 0.654 mg/kg | 111.11 mg/kg food |

**D-Glucopyranose, oligomeric, C10-16 (even numbered) alkyl glycosides** CAS: 110615-47-9

**DNEL**

| Area of use | Route of exposure | Effect | Exposure time | Value |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| Workers | Inhalation | Systemic effect | Long term | 420 mg/m$^3$ |
| Workers | Dermal | Systemic effect | Long term | 595 000 mg/kg/day |
| General population | Inhalation | Systemic effect | Long term | 124 mg/m$^3$ |
| General population | Dermal | Systemic effect | Long term | 357 000 mg/kg/day |
| General population | Oral | Systemic effect | Long term | 35.7 mg/kg/day |

**PNEC**

| Fresh water | Marine water | Intermittent releases | | Sewage Treatment Plant (STP) |
|---|---|---|---|---|
| | | Fresh water | Marine water | |
| 0.176 mg/l | 0.018 mg/l | 0.029 mg/l | not given | 5 000 mg/l |

**PNEC**

| Sediment (freshwater) | Sediment (marine water) | Air | Soil | Hazard for predators |
|---|---|---|---|---|
| 1.516 mg/l | 0.065 mg/kg | not given | 0.654 mg/kg | 111.11 mg/kg food |

**Etidronic acid** CAS: 2809-21-4

**DNEL**

| Area of use | Route of exposure | Effect | Exposure time | Value |
|---|---|---|---|---|
| Workers | Inhalation | Systemic effect | Long term | 12 mg/m$^3$ |
| Workers | Dermal | Systemic effect | Long term | 34 mg/kg/day |
| General population | Inhalation | Systemic effect | Long term | 2.95 mg/m$^3$ |
| General population | Dermal | Systemic effect | Long term | 17 mg/kg/day |
| General population | Oral | Systemic effect | Long term | 1.7 mg/kg/day |
| General population | Oral | Systemic effect | Short term | 1.7 mg/kg/day |

**PNEC**

| Fresh water | Marine water | Intermittent releases | | Sewage Treatment Plant (STP) |
|---|---|---|---|---|
| | | Fresh water | Marine water | |
| 0.068 mg/l | 0.007 mg/l | not given | not given | 40 mg/l |

**PNEC**

| Sediment (freshwater) | Sediment (marine water) | Air | Soil | Hazard for predators |
|---|---|---|---|---|
| 136 mg/kg | 13.6 mg/kg | no effect | 10 mg/kg | 3.7 mg/kg food |

## *8.2. Exposure controls*

### *8.2.1. Appropriate engineering controls*

Use only in well-ventilated areas.

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

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

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

***Eye/face protection***

Wear safety glasses or face shield.

***Skin protection - hand protection***

Wear protective gloves.

Suitable gloves material: polyvinylchloride, neoprene, nature rubber, butyl-rubber, breakthrough time: 480 min.

Unsuitable gloves material: leather

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 vapour). 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**

| | |
|---|---|
| ***Physical state*** | Liquid. |
| ***Colour*** | Colourless. |
| ***Odour*** | Characteristic. |
| ***Melting point/freezing point*** | Not determined. |
| ***Boiling point or initial boiling point and boiling range*** | 100 °C. |
| ***Flammability*** | Not determined. |
| ***Lower explosion limit*** | Not determined. |
| ***Upper explosion limit*** | Not determined. |
| ***Flash point*** | > 100 °C. |
| ***Auto-ignition temperature*** | Not determined. |
| ***Decomposition temperature*** | Not determined, the mixture does not contain self-reactive substances or organic peroxides. |
| ***pH*** | 14 (20 °C). |

| | |
|---|---|
| ***Kinematic viscosity*** | Not determined, the mixture does not contain a substance classified as aspiration toxic, or the sum of the concentrations of substances classified as aspiration toxic is less than 10 wt. %. |
| ***Solubility*** | Miscible. |
| ***Partition coefficient n-octanol/water (log value)*** | Does not apply to mixture. |
| ***Vapour pressure*** | 23 hPa. |
| ***Density and/or relative density*** | $D_4^{20}$ = 1.284. |
| ***Relative vapour density*** | Not determined. |
| ***Particle characteristics*** | Does not apply to liquid. |
| **Sodium hydroxide** | CAS: 1310-73-2 |
| ***Physical state*** | Solid. |
| ***Colour*** | White. |
| ***Odour*** | Odourless. |
| ***Melting point/freezing point*** | 323 °C (literature). |
| ***Boiling point or initial boiling point and boiling range*** | 1 388 °C (literature). |
| ***Flammability*** | The substance is not classified as flammable, pyrophoric or emit flammable gases under standard conditions. |
| ***Lower explosion limit*** | Does not apply to solid. |
| ***Upper explosion limit*** | Does not apply to solid. |
| ***Flash point*** | Does not apply to solid. |
| ***Auto-ignition temperature*** | Does not apply to solid. |
| ***Decomposition temperature*** | Not determined, it is not a self-reactive substance or an organic peroxide or a substance that may decompose. |
| ***pH*** | Not determined, strong alkaline substance. |
| ***Kinematic viscosity*** | Does not apply to solid. |
| ***Solubility*** | 100 g/100 g H2O (25 °C, literature). |
| ***Partition coefficient n-octanol/water (log value)*** | Not determined, it is an inorganic substance. |
| ***Vapour pressure*** | Not determined, the substance has melting point higher than 300 °C. |
| ***Density and/or relative density*** | 2.13 g/cm$^3$ (20 °C, literature). |
| ***Relative vapour density*** | Does not apply to solid. |
| ***Particle characteristics*** | Not determined, solid NaOH is in the form of large particles (flakes). |
| **D-Glucopyranose, oligomers, decyl octyl glycosides** | CAS: 68515-73-1 |
| ***Physical state*** | Solid. |
| ***Colour*** | Not determined. |

| | |
|---|---|
| ***Odour*** | Not determined. |
| ***Melting point/freezing point*** | > 150 °C (read-across (CAS 110615-47-9), OECD 102). |
| ***Boiling point or initial boiling point and boiling range*** | Not determined, substance decomposes. |
| ***Flammability*** | Non-flammable solid (read-across (CAS 110615-47-9), 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*** | Not determined. |
| ***Decomposition temperature*** | Not determined, it is not a self-reactive substance or an organic peroxide. |
| ***pH*** | Not determined. |
| ***Kinematic viscosity*** | Does not apply to solid. |
| ***Solubility*** | > 200 g/l (read-across (CAS 110615-47-9), 20 °C, OECD 105). |
| ***Partition coefficient n-octanol/water (log value)*** | log Pow = 1.72 (40 °C, pH = 6.5, EU Method A.8). |
| ***Vapour pressure*** | ≤ 0.008 Pa (read-across (CAS 110615-47-9), 20 °C, OECD 104). |
| ***Density and/or relative density*** | $D_4^{20}$ = 1.16 (read-across (CAS 110615-47-9), EU Method A.3). |
| ***Relative vapour density*** | Does not apply to solid. |
| ***Particle characteristics*** | Not determined. |
| **D-Glucopyranose, oligomeric, C10-16 (even numbered) alkyl glycosides** | CAS: 110615-47-9 |
| ***Physical state*** | Solid. |
| ***Colour*** | Not determined. |
| ***Odour*** | Not determined. |
| ***Melting point/freezing point*** | > 150 °C (OECD 102). |
| ***Boiling point or initial boiling point and boiling range*** | > 301 °C (OECD 103). |
| ***Flammability*** | Non-flammable solid (EU method A.10). |
| ***Lower explosion limit*** | Does not apply to solid. |
| ***Upper explosion limit*** | Does not apply to solid. |
| ***Flash point*** | Does not apply to solid. |
| ***Auto-ignition temperature*** | Not determined. |
| ***Decomposition temperature*** | Not determined, it is not a self-reactive substance or an organic peroxide. |
| ***pH*** | Not determined. |
| ***Kinematic viscosity*** | Does not apply to solid. |

| | |
|---|---|
| ***Solubility*** | > 200 g/l (20 °C, OECD 105). |
| ***Partition coefficient n-octanol/water (log value)*** | log Pow ≤ -0.07 (20 °C, calculation). |
| ***Vapour pressure*** | Not determined. |
| ***Density and/or relative density*** | $D_4^{20}$ = 1.16 (EU Method A.3). |
| ***Relative vapour density*** | Does not apply to solid. |
| ***Particle characteristics*** | Not determined. |
| **Etidronic acid** | CAS: 2809-21-4 |
| ***Physical state*** | Solid. |
| ***Colour*** | Not determined. |
| ***Odour*** | Not determined. |
| ***Melting point/freezing point*** | ≥ 450 °C (EU method A.1). |
| ***Boiling point or initial boiling point and boiling range*** | Not determined. |
| ***Flammability*** | The substance is not classified as flammable (EU method A.10). |
| ***Lower explosion limit*** | Does not apply to solid. |
| ***Upper explosion limit*** | Does not apply to solid. |
| ***Flash point*** | Does not apply to solid. |
| ***Auto-ignition temperature*** | Does not apply to solid. |
| ***Decomposition temperature*** | Not determined, it is not a self-reactive substance or an organic peroxide or a substance that may decompose. |
| ***pH*** | Not determined. |
| ***Kinematic viscosity*** | Does not apply to solid. |
| ***Solubility*** | 690 g/l (20 °C, literature). |
| ***Partition coefficient n-octanol/water (log value)*** | log Pow = -3.5 (literature). |
| ***Vapour pressure*** | Not determined, the substance has melting point higher than 300 °C. |
| ***Density and/or relative density*** | 1 450 - 1 490 kg/m$^3$ (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**

***Explosives***

Data for the mixture are not available.

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

***Flammable gases***

It is not gas.

***Aerosols***

It is not aerosol.

***Oxidising gases***

It is not gas.

***Gases under pressure***

It is not gas.

***Flammable liquids***

The mixture is not classified as flammable liquid according to the low concentration of acetic acid.

***Flammable solids***

It is not solid.

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

Data for the mixture are not available.

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

***Pyrophoric liquids***

Data for the mixture are not available.

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

***Pyrophoric solids***

It is not solid.

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

Data for the mixture are not available.

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

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

Data for the mixture are not available.

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

***Oxidising liquids***

Data for the mixture are not available.

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

***Oxidising solids***

It is not solid.

***Organic peroxides***

Data for the mixture are not available.

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

***Corrosive to metals***

Data for the mixture are not available.

The mixture is classified as corrosive to metal category 1, due to the sodium hydroxide content.

***Desensitised explosives***

Data for the mixture are not available.

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

**Sodium hydroxide** CAS: 1310-73-2

***Explosives***

Data for the substance are not available.

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

***Flammable gases***

It is not gas.

***Aerosols***

It is not aerosol.

***Oxidising gases***

It is not gas.

***Gases under pressure***

It is not gas.

***Flammable liquids***

It is not liquid.

***Flammable solids***

Data for the substance are not available.

The substance is not classified as flammable solid.

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

Data for the substance are not available.

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

***Pyrophoric liquids***

It is not liquid.

***Pyrophoric solids***

Data for the substance are not available.

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

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

Data for the substance are not available.

The substance is not classified as self-heating.

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

Data for the substance are not available.

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

***Oxidising liquids***

It is not liquid.

| |
|---|
| ***Oxidising solids*** |
| Data for the substance are not available.<br>The substance does not contain chemical groups associated with oxidising properties. |
| ***Organic peroxides*** |
| Data for the substance are not available.<br>The substance does not contain a bivalent group -O-O- with at least one organic radical. |
| ***Corrosive to metals*** |
| Data for the substance are not available.<br>The substance is classified as corrosive to metal category 1. |
| ***Desensitised explosives*** |
| Data for the substance are not available.<br>The substance does not contain chemical groups associated with explosive properties. |
| **D-Glucopyranose, oligomers, decyl octyl glycosides** CAS: 68515-73-1 |
| ***Explosives*** |
| Data for the substance are not available.<br>The substance does not contain chemical groups associated with explosive properties. |
| ***Flammable gases*** |
| It is not gas. |
| ***Aerosols*** |
| It is not aerosol. |
| ***Oxidising gases*** |
| It is not gas. |
| ***Gases under pressure*** |
| It is not gas. |
| ***Flammable liquids*** |
| It is not liquid. |
| ***Flammable solids*** |
| The substance is not classified as flammable solid (EU method A.10). |
| ***Self-reactive substances and mixtures*** |
| Data for the substance are not available.<br>The substance does not contain chemical groups associated with explosive or self-reactive properties. |
| ***Pyrophoric liquids*** |
| It is not liquid. |
| ***Pyrophoric solids*** |
| Data for the substance are not available.<br>The substance is stable in air, there is no spontaneous ignition. |
| ***Self-heating substances and mixtures*** |

Data for the substance are not available.
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.

**D-Glucopyranose, oligomeric, C10-16 (even numbered) alkyl glycosides** CAS: 110615-47-9

***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***

It is not liquid.

***Flammable solids***

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

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

Data for the substance are not available.

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

***Pyrophoric liquids***

It is not liquid.

***Pyrophoric solids***

Data for the substance are not available.

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

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

Data for the substance are not available.

The substance is not classified as self-heating.

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

Data for the substance are not available.

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

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

***Oxidising liquids***

It is not liquid.

***Oxidizing solids***

Data for the substance are not available.

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

***Organic peroxides***

Data for the substance are not available.

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

***Corrosive to metals***

Data for the substance are not available.

The substance is not classified as corrosive to metal.

***Desensitised explosives***

Data for the substance are not available.

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

**Etidronic acid** CAS: 2809-21-4

***Explosives***

Data for the substance are not available.

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

***Flammable gases***

It is not gas.

***Aerosols***

It is not aerosol.

***Oxidising gases***

It is not gas.

***Gases under pressure***

It is not gas.

***Flammable liquids***

It is not liquid.

***Flammable solids***

The substance is not classified as flammable, burning time = 2 minutes (EU method A.10).

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

Data for the substance are not available.

The substance is not classified as self-reactive substances.

***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 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 frost.

### *10.5. Incompatible materials*

Strong oxidising agents, acids. Mixture is corrosive to metals.

### *10.6. Hazardous decomposition products*

Burning releases carbon oxides, phosphor oxides, phosphine and products of incomplete combustion.

## SECTION 11: Toxicological information

### *11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008*

**Mixture**

***Acute toxicity***

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

| | |
|---|---|
| ***Oral*** | Data for the mixture are not available.<br>ATEmixture > 2 000 mg/kg (estimate, low concentration of substance classified as toxic oral route of exposure). |
| ***Dermal*** | Data for the mixture are not available.<br>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.<br>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 corrosive for skin in category 1A 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 section 2 and 4.

| **Sodium hydroxide** | CAS: 1310-73-2 |
|---|---|
| ***Acute toxicity*** | |
| ***Oral*** | Data for the substance are not available. |
| ***Dermal*** | Data for the substance are not available. |
| ***Inhalation*** | Data for the substance are not available. |
| ***Skin corrosion/irritation*** | |
| Substance is classified as skin corrosive category 1A.<br>Irritating to the skin at a concentration of 0.95 % by weight - intact skin - mean erythema score = 2 after 24 hours, 1.7 after 72 hours, 0.7 after 8 days (irreversible for 1/6 animals, scale on the skin) and edema = 0.3 after 24 h, 0 after 72 h, 0 after 8 d (fully reversible in 72 h), broken skin - mean erythema score = 2.3 after 24 h, 2 after 72 h, 2.7 after 8 d (irreversible for 1/6 animals, skin necrosis) and edema = 2 after 24 h, 0.3 after 72 h, 0 after 8 d (fully reversible in 8 days), primary dermal irritation index PDII = 2.7 (rabbit, Draize test).<br>Corrosive skin at a concentration of 4.98% by weight - intact skin - mean erythema score = 4 after 24 h, 4 after 72 h, 4 after 8 d (irreversible, skin necrosis) and edema = 2 after 24 h, 1 after 72 h , 1 after 8 days (irreversible for 8 days), broken skin - mean erythema score = 4 after 24 h, 4 after 72 h, 4 after 8 d (irreversible, skin necrosis) and edema = 2 after 24 h, after 72 hours, 1 after 8 days (irreversible for 8 days), primary dermal irritation index PDII = 5.6 (rabbit, Draize test). | |
| ***Serious eye damage/irritation*** | |
| Substance is classified as serious eye damage.<br>Mean corneal opacity > 2, conjunctival redness > 2.5 (2 wt.%, rabbit, 72 h, OECD 405). | |
| ***Respiratory or skin sensitization*** | |
| Based on available data, the classification criteria are not met.<br>Not skin sensitising (human). | |
| ***Germ cell mutagenicity*** | |
| Data for the substance are not available. | |
| ***Carcinogenicity*** | |
| Data for the substance are not available. | |
| ***Reproductive toxicity*** | |
| Data for the substance are not available. | |
| ***STOT – single exposure*** | |
| Data for the substance are not available. | |
| ***STOT – repeated exposure*** | |
| Data for the substance are not available. | |
| ***Aspiration hazard*** | |
| The substance is not a hydrocarbon or a chlorinated hydrocarbon with a kinematic viscosity of 20.5 $mm^2/s$ or less at 40 °C. | |
| **D-Glucopyranose, oligomers, decyl octyl glycosides** | CAS: 68515-73-1 |
| ***Acute toxicity*** | |
| ***Oral*** | Based on available data, the classification criteria are not met.<br>$LD_{50}$ > 2 000 mg/kg (rat, OECD 423). |

| | |
|---|---|
| ***Dermal*** | Based on available data, the classification criteria are not met.<br>$LD_{50}$ > 2 000 mg/kg (rabbit, OECD 402). |
| ***Inhalation*** | Data for the substance are not available. |

***Skin corrosion/irritation***

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

Mean erythema score = 0.7, 1.3, 0.3 (fully reversible) and oedema = 0 (rabbit, 72 hrs. OECD 404).

Primary dermal irritation index PDII = 2.6 (max. 10, intact skin), mean erythema score ≥ 1 - ≤ 2 (moderate erythema on intact skin), mean oedema score = ca. 1 (moderate erythema on intact skin) (rabbit, 72 h, OECD 404).

***Serious eye damage/irritation***

The substance is classified as seriously damaging to the eyes.

Mean score of corneal opacity = 2.3 (not fully reversible after 23 days), iritis = 1 (fully reversible after 7 days), conjunctival redness = 2.7 (not fully reversible after 21 days), conjunctival oedema = 1 (not fully reversible) (rabbit, 72 h, OECD 405).

***Respiratory or skin sensitisation***

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

Not skin sensitising (mouse, OECD 429).

***Germ cell mutagenicity***

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

Negative (OECD 476).

***Carcinogenicity***

Data for the substance are not available.

***Reproductive toxicity***

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

NOAEL = 1 000 mg/kg/day (read-across (SAT 981163), rat, oral, generation P0, OECD 421).

***STOT – single exposure***

Data for the substance are not available.

***STOT – repeated exposure***

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

NOAEL = 1000 mg/kg/day (systemic and cumulative effect, rat, oral, 90 d, EU Method B.26).

***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.

**D-Glucopyranose, oligomeric, C10-16 (even numbered) alkyl glycosides** CAS: 110615-47-9

***Acute toxicity***

| | |
|---|---|
| ***Oral*** | Based on available data, the classification criteria are not met.<br>$LD_{50}$ > 5 000 mg/kg (rat, OECD 401). |
| ***Dermal*** | Based on available data, the classification criteria are not met.<br>$LD_{50}$ > 2 000 mg/kg (rabbit, OECD 402). |
| ***Inhalation*** | Data for the substance are not available. |

***Skin corrosion/irritation***

The substance is classified as skin irritant.

Mean erythema score = 2.9 (fully reversible after 17 days) and oedema = 2.1 (fully reversible after 10 days) (rabbit, 72 hrs., OECD 404).

***Serious eye damage/irritation***

The substance is classified as seriously damaging to the eyes.

Mean score of corneal opacity = 0.5 (not fully reversible after 21 days), iritis = 0.3 (fully reversible after 14 days), conjunctival redness = 2.1 (not fully reversible after 21 days), conjunctival oedema = 1 (not fully reversible after 21 days) (rabbit, 72 h, OECD 405).

***Respiratory or skin sensitisation***

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

Not skin sensitising (guinea pig, 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 = 1 000 mg/kg/day (reproductive toxicity, oral, rat, generation P0, OECD 421).

***STOT – single exposure***

Data for the substance are not available.

***STOT – repeated exposure***

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

NOAEL = 1000 mg/kg/day (systemic and cumulative effect, rat, oral, 90 d, EU Method B.26).

***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.

**Etidronic acid** CAS: 2809-21-4

***Acute toxicity***

| | |
|---|---|
| ***Oral*** | The substance is classified in category 4.<br>$LD_{50}$ = 1 878 mg/kg (rat, OECD 401). |
| ***Dermal*** | Based on available data, the classification criteria are not met.<br>$LD_{50}$ > 3 505 mg/kg (rabbit, OECD 402). |
| ***Inhalation*** | Data for the substance are not available. |

***Skin corrosion/irritation***

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

Mean erythema score = 0 and oedema = 0 (rabbit, 72 hrs., OECD 404).

***Serious eye damage/irritation***

The substance is classified as seriously damaging to the eyes.
Maximum irritation score = ca. 90 of 110 (irreversible, rabbit, 72 hours, OECD 405).

***Respiratory or skin sensitisation***

Based on available data, the classification criteria are not met.
Not skin sensitising (guinea pig, maximization test).

***Germ cell mutagenicity***

Based on available data, the classification criteria are not met.
Negative (OECD 471, OECD 476, OECD 487).

***Carcinogenicity***

Based on available data, the classification criteria are not met.
NOAEL ≥ 493 mg/kg/day (rat, female, oral, OECD 453).
NOAEL ≥ 384 mg/kg/day (rat, female, oral, OECD 453).

***Reproductive toxicity***

Based on available data, the classification criteria are not met.
NOAEL = 92 mg/kg/day (rat, female, oral, generation P0, OECD 416).
NOAEL = 92 mg/kg/day (rat, female, oral, generation F1, OECD 416).

***STOT – single exposure***

Data for the substance are not available.

***STOT – repeated exposure***

Based on available data, the classification criteria are not met.
NOAEL = 34 mg/kg/day (juvenile rats, rat, male, oral, 90 d., OECD 408).
LOAEL = 139 mg/kg/day (anemia, rat, male, oral, 90 d., OECD 408).

***Aspiration hazard***

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

### *11.2. Information on other hazards*

Mixture does not contain substance(s) meets meeting the criteria for persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) in accordance with Annex XIII of REACH regulation. The mixture and its substances are not mentioned on the Candidate list for possible inclusion in Annex XIV of REACH at the date of the revision of the safety data sheet and given in the list (established in accordance with Article 59(1) for having endocrine disrupting properties of REACH regulation. Mixture does not contain the substance(s) identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. There is no other relevant information on adverse health effects that is not required according to the classification criteria set out in CLP Regulation. .

## SECTION 12: Ecological information

### *12.1. Toxicity*

**Mixture**

Data for the mixture are not available.

***Acute aquatic toxicity***

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

***Chronic aquatic toxicity***

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

**Sodium hydroxide** CAS: 1310-73-2

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

***Fish***

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

***Crustaceans***

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

***Algae***

Data for the substance are not available.

**D-Glucopyranose, oligomers, decyl octyl glycosides** CAS: 68515-73-1

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

***Fish***

$LC_{50}$, 96 hrs., Danio rerio: 100.81 mg/l (mortality, ISO 7346/1-3).
NOEC, 28 d., Danio rerio: 1.8 mg/l (mortality, OECD 204).

***Crustaceans***

$EC_{50}$, 48 hrs., Daphnia Magna: > 100 mg/l (mobility, OECD 202).
NOEC, 21 d., Daphnia Magna: 2 mg/l (reproduction, OECD 211).

***Algae***

$EC_{50}$, 72 hrs., Desmodesmus subspicatus: 27.22 mg/ (biomass, DIN 38412, part 9).
$EC_{10}$, 72 hrs., Desmodesmus subspicatus: 21 mg/l (growth rate, DIN 38412, part 9).
$EC_{10}$, 72 hrs., Desmodesmus subspicatus: 6.25 mg/l (biomass, DIN 38412, part 9).

**D-Glucopyranose, oligomeric, C10-16 (even numbered) alkyl glycosides** CAS: 110615-47-9

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

***Fish***

$LC_{50}$, 96 hrs., Danio rerio: 2.95 mg/l (mortality).
NOEC, 28 d., Danio rerio: 1.8 mg/l (mortality, OECD 204).
NOEC, 28 d., Danio rerio: 3.2 mg/l (growth, OECD 204).

***Crustaceans***

$EC_{50}$, 48 hrs., Daphnia Magna: 7 mg/l (mobility).
NOEC, 21 d., Daphnia Magna: 2 mg/l (reproduction, OECD 202).
NOEC, 21 d., Daphnia Magna: 1 mg/l (mobility, OECD 202).

***Algae***

$EC_{50}$, 72 hrs., Desmodesmus subspicatus: 5 mg/l (biomass).
$EC_{50}$, 72 hrs., Desmodesmus subspicatus: 12.5 mg/l (growth rate).
$EC_{10}$, 72 hrs., Desmodesmus subspicatus: 1.45 mg/l (biomass).
$EC_{10}$, 72 hrs., Desmodesmus subspicatus: 4.15 mg/l (growth rate).

**Etidronic acid** CAS: 2809-21-4

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

***Fish***

$LC_{50}$, 96 hrs., Oncorhynchus mykiss: 195 mg/l (mobility, OECD 204).
NOEC, 14 d., Oncorhynchus mykiss: 60 mg/l (behaviour, loss of equilibrium, OECD 204).

***Crustaceans***

$EC_{50}$, 48 hrs., Daphnia Magna: 527 mg/l (mobility, OECD 202).
NOEC, 28 d., Daphnia Magna: 60 mg/l (adult survival and number of pups, EPA 66013-75-009).

***Algae***

Data for the substance are not available.

## *12.2. Persistence and degradability*

**Mixture**

Data for the mixture are not available.

**Sodium hydroxide** CAS: 1310-73-2

Not determined, it is an inorganic substance.

**D-Glucopyranose, oligomers, decyl octyl glycosides** CAS: 68515-73-1

Readily biodegradable: 100 % after 28 days (removal of dissolved organic carbon, OECD 301 E).

**D-Glucopyranose, oligomeric, C10-16 (even numbered) alkyl glycosides** CAS: 110615-47-9

Readily biodegradable: 88 % after 28 days (c = 2 mg/l, $O_2$ consumption, OECD 301 D).
Readily biodegradable: 60 % after 28 days (c = 5 mg/l, $O_2$ consumption, OECD 301 D).

**Etidronic acid** CAS: 2809-21-4

Not readily biodegradable: BOD5/COD = 23 % (OECD 301 D).
BOD - Biological Oxygen Demand.
COD - Chemical Oxygen Demand.

## *12.3. Bioaccumulative potential*

**Mixture**

Data for the mixture are not available.

**Sodium hydroxide** CAS: 1310-73-2

Not determined, it is an inorganic substance.

**D-Glucopyranose, oligomers, decyl octyl glycosides** CAS: 68515-73-1

log Pow = 1.72 (40 °C, pH = 6.5, EU Method A.8).

**D-Glucopyranose, oligomeric, C10-16 (even numbered) alkyl glycosides** CAS: 110615-47-9

log Pow ≤ -0.07 (20 °C, calculation).

**Etidronic acid** CAS: 2809-21-4

BCF < 7 (Cyprinus carpio, dose 0.06 mg/l).
BCF < 2 (Cyprinus carpio, dose 0.6 mg/l).
log Pow = -3.5 (literature).

### *12.4. Mobility in soil*

**Mixture**

Data for the mixture are not available.

**Sodium hydroxide** CAS: 1310-73-2

Not determined, it is an inorganic substance.

**D-Glucopyranose, oligomers, decyl octyl glycosides** CAS: 68515-73-1

log Koc = 1.7 (read-across (CAS 110615-47-9), 25 °C, OECD 121).

**D-Glucopyranose, oligomeric, C10-16 (even numbered) alkyl glycosides** CAS: 110615-47-9

log Koc = 1.7 (25 °C, OECD 121).

**Etidronic acid** CAS: 2809-21-4

log Koc = 4.22.

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

***Possible waste code***

07 06 01* - aqueous washing liquids and mother liquors (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***

Corrosivity to metals.

***Special precautions recommended for waste management***

Not known.

***Waste legislation***

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

## SECTION 14: Transport information

### *14.1. UN number or ID number*

UN 3266

### *14.2. UN proper shipping name*

CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Sodium hydroxide).

### *14.3. Transport hazard class(es)*

8

### *14.4. Packing group*

I

### *14.5. Environmental hazards*

It is not dangerous for the environment during transport.

### *14.6. Special precautions for user*

Not given.

### *14.7. Maritime transport in bulk according to IMO instruments*

Not available.

### *14.8. Other information*

***Labeling according to ADR***


***Additional data for ADR/RID***

| | |
|---|---|
| Classification code | C5 |
| Labels | 8 |
| Hazard identification code | 88 |
| Tunnel restriction code | E (ADR), - (RID) |
| Limited quantities | 0 |
| Excepted quantities | Not permitted as excepted quantity. |
| Transport category | 1 |

| | |
|---|---|
| ***Additional data for IMDG*** | |
| Emergency Schedules (EmS) | F-A, S-B |

## SECTION 14: Transport information

### *14.1. UN number or ID number*

UN 1824

### *14.2. UN proper shipping name*

SODIUM HYDROXIDE SOLUTION

### *14.3. Transport hazard class(es)*

8

### *14.4. Packing group*

II

### *14.5. Environmental hazards*

It is not dangerous for the environment during transport.

### *14.6. Special precautions for user*

Not given.

### *14.7. Maritime transport in bulk according to IMO instruments*

Not available.

### *14.8. Other information*

***Labeling according to ADR***


| | |
|---|---|
| ***Additional data for ADR/RID*** | |
| Classification code | C5 |
| Labels | 8 |
| Hazard identification code | 80 |
| Tunnel restriction code | E (ADR), - (RID) |
| Limited quantities | 1l |
| Excepted quantities | Maximum net quantity per inner packaging: 30 ml.<br>Maximum net quantity per outer packaging: 500 ml. |
| Transport category | 2 |
| ***Additional data for IMDG*** | |
| Emergency Schedules (EmS) | F-A, S-B |

## 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 was not done for the mixture.

## SECTION 16: Other information

***Reason for the revision of the safety data sheet***

First edition.

***Key or legend to abbreviations and acronyms***

| | |
|---|---|
| Acute Tox. 4 | Acute toxicity, cat. 4 |
| Eye Dam. 1 | Serious eye damage, cat. 1 |
| Eye Irrit. 2 | Eye irritation, cat. 2 |
| Flam. Liq. 3 | Flammable liquid, cat. 3 |
| Met. Corr. 1 | Substance or mixture corrosive to metals, cat. 1 |
| Skin Corr. 1A | Skin corrosion, cat. 1A |
| Skin Corr. 1B | Skin corrosion, cat. 1B |
| Skin Irrit. 2 | Skin irritation, cat. 2 |
| 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***

| | |
|---|---|
| H226 | Flammable liquid and vapour. |
| H290 | May be corrosive to metals. |
| 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. |
| P234 | Keep only in original packaging. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P301+P330+P331 | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. |
| P310 | Immediately call a POISON CENTER/doctor. |
| P501 | Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. |

***Training advice***

According to SDS.

***Other information***

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

The information in this SDS was obtained from sources, which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

The safety data sheet is created in accordance with Regulation No. 2020/878/EC. There is no additional information in accordance with the local and national legislation of the Member State in the European Union, in the safety data sheet.

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