

# SAFETY DATA SHEET

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

## POWER Alk

Date of issue:

26. 09. 2024

Version: 1.0

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

#### 1.1. Product identifier

**Product Name**

**POWER Alk**

**UFI code**

UFI: 4MU0-70NJ-U002-4GAY

**Product code**

None.

**Mixture description**

An aqueous solution.

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

**Identified uses**

Alkaline and sequestration washing additive.  
Professional use.

**Uses advised against**

Not to be used on aluminium and materials non-resistant to alkaline.  
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](mailto:info@cormen.cz)

#### 1.4. Emergency telephone number

112 (General emergency phone).

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

The mixture is classified as **hazardous** according to regulation 1272/2008/EC.

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

**Met. Corr. 1; H290**

**Skin Corr. 1A; H314**

**Eye Dam. 1; H318**

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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, Potassium hydroxide.

### **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. <b>Dispose of the cleaned packaging without any residual product content in the sorted waste.</b> |

### **Supplemental hazard information**

Mandatory additional information is not required according to CLP regulation.  
Composition according to regulation 648/2004/EC on detergents:  $\geq 5$  -  $< 15$  % 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.

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### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### 3.2.1. Substances of a mixture classified as hazardous

| Identification of substance                                 |                       | Content wt. % | Classification according to 1272/2008/EC                        |
|---|-----------------------|---------------|---|
| <b>Sodium hydroxide; Caustic soda</b>                       |                       |               |   |
| CAS Number  | 1310-73-2             | 15 - < 25     | 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 %       |               |   |
| <b>Potassium hydroxide; Caustic potash</b>                  |                       |               |   |
| CAS Number  | 1310-58-3             | 0.1 - < 1     | Met. Corr. 1; H290<br>Acute Tox. 4; H302<br>Skin Corr. 1A; H314 |
| EC Number   | 215-181-3             |               |   |
| Index Number  | 019-002-00-8          |               |   |
| Registration Number   | 01-2119487136-33-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 %       |               |   |
| 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

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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 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.

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### 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. 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

Not determined in EU.

#### 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 <sup>3</sup> |
| General population | Inhalation        | Local effect | Long term     | 1 mg/m <sup>3</sup> |

PNEC - not available

#### Potassium hydroxide

CAS: 1310-58-3

#### DNEL

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

PNEC - not available

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

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Use only in well-ventilated areas.

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

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

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

#### Eye/face protection

Wear safety glasses or face shield (EN 166, EN 149+A1).

#### Skin protection - hand protection

Wear protective gloves (EN 374-1, EN 374-2).

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 protective footwear.

#### Respiratory protection

It is not necessary if the concentration limits are observed (if they are exceeded, use respiratory protection). In the event of an accident or fire, use self-contained breathing apparatus.

#### Thermal hazards

In normal use is not necessary protective equipment to be worn for materials that represent a thermal hazard.

### 8.2.3. Environmental exposure controls

Uncontrolled release of the mixture into environment is to be avoided. Keep the emission limits according to national legislation.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Mixture

|   |                 |
|---|-----------------|
| <b>Physical state</b>   | Liquid.         |
| <b>Colour</b>   | Colourless.     |
| <b>Odour</b>  | Characteristic. |
| <b>Melting point/freezing point</b>                             | Not determined. |
| <b>Boiling point or initial boiling point and boiling range</b> | Not determined. |
| <b>Flammability</b>   | Not determined. |
| <b>Lower explosion limit</b>                                    | Not determined. |
| <b>Upper explosion limit</b>                                    | Not determined. |



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|   |   |
|---|---|
| <b>Flash point</b>  | Not determined.   |
| <b>Auto-ignition temperature</b>                                | Not determined.   |
| <b>Decomposition temperature</b>                                | Not determined, the mixture does not contain self-reactive substances or organic peroxides.   |
| <b>pH</b>   | 14.   |
| <b>Kinematic viscosity</b>                                      | Not determined, the mixture does not contain a substance classified as aspiration toxic, or the sum of the concentrations of substances classified as aspiration toxic is less than 10 wt. %. |
| <b>Solubility</b>   | Miscible.   |
| <b>Partition coefficient n-octanol/water (log value)</b>        | Does not apply to mixture.  |
| <b>Vapour pressure</b>  | Not determined.   |
| <b>Density and/or relative density</b>                          | Not determined.   |
| <b>Relative vapour density</b>                                  | Not determined.   |
| <b>Particle characteristics</b>                                 | Does not apply to liquid.   |
| <b>Sodium hydroxide</b> CAS: 1310-73-2                          |   |
| <b>Physical state</b>   | Solid.  |
| <b>Colour</b>   | White.  |
| <b>Odour</b>  | Odourless.  |
| <b>Melting point/freezing point</b>                             | 323 °C (literature).  |
| <b>Boiling point or initial boiling point and boiling range</b> | 1 388 °C (literature).  |
| <b>Flammability</b>   | The substance is not classified as flammable, pyrophoric or emit flammable gases under standard conditions.   |
| <b>Lower explosion limit</b>                                    | Does not apply to solid.  |
| <b>Upper explosion limit</b>                                    | Does not apply to solid.  |
| <b>Flash point</b>  | Does not apply to solid.  |
| <b>Auto-ignition temperature</b>                                | Does not apply to solid.  |
| <b>Decomposition temperature</b>                                | Not determined, it is not a self-reactive substance or an organic peroxide or a substance that may decompose.   |
| <b>pH</b>   | Not determined, strong alkaline substance.  |
| <b>Kinematic viscosity</b>                                      | Does not apply to solid.  |
| <b>Solubility</b>   | 100 g/100 g H <sub>2</sub> O (25 °C, literature).   |
| <b>Partition coefficient n-octanol/water (log value)</b>        | Not determined, it is an inorganic substance.   |
| <b>Vapour pressure</b>  | Not determined, the substance has melting point higher than 300 °C.   |
| <b>Density and/or relative density</b>                          | 2.13 g/cm <sup>3</sup> (20 °C, literature).   |
| <b>Relative vapour density</b>                                  | Does not apply to solid.  |

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|   |   |
|---|---|
| <b>Particle characteristics</b>                                 | Not determined, solid NaOH is in the form of large particles (flakes).  |
| <b>Potassium hydroxide</b>                                      | CAS: 1310-58-3  |
| <b>Physical state</b>   | Solid.  |
| <b>Colour</b>   | White.  |
| <b>Odour</b>  | Odourless.  |
| <b>Melting point/freezing point</b>                             | 406 °C (literature).  |
| <b>Boiling point or initial boiling point and boiling range</b> | 1 327 °C (literature).  |
| <b>Flammability</b>   | The substance is not classified as flammable, pyrophoric or emit flammable gases under standard conditions.   |
| <b>Lower explosion limit</b>                                    | Does not apply to solid.  |
| <b>Upper explosion limit</b>                                    | Does not apply to solid.  |
| <b>Flash point</b>  | Does not apply to solid.  |
| <b>Auto-ignition temperature</b>                                | Does not apply to solid.  |
| <b>Decomposition temperature</b>                                | Not determined, it is not a self-reactive substance or an organic peroxide or a substance that may decompose. |
| <b>pH</b>   | ca. 13.5 (concentration 5.611 g/l, 25 °C, literature).  |
| <b>Kinematic viscosity</b>                                      | Does not apply to solid.  |
| <b>Solubility</b>   | 121 g/100 g H <sub>2</sub> O (25 °C, literature).   |
| <b>Partition coefficient n-octanol/water (log value)</b>        | Not determined, it is an inorganic substance.   |
| <b>Vapour pressure</b>  | Not determined, the substance has melting point higher than 300 °C.   |
| <b>Density and/or relative density</b>                          | 2.04 g/cm <sup>3</sup> (20 °C, literature).   |
| <b>Relative vapour density</b>                                  | Does not apply to solid.  |
| <b>Particle characteristics</b>                                 | Not determined, solid KOH is in the form of large particles (flakes).   |

## 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.



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### ***Oxidising gases***

It is not gas.

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

It is not gas.

### ***Flammable liquids***

Data for the mixture are not available.

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

### ***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***

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Data for the mixture are not available.

The mixture is classified as corrosive to metal category 1, due to the potassium hydroxide and 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***

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It is not liquid.

### ***Oxidising solids***

Data for the substance are not available.

The 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 classified as corrosive to metal category 1.

### ***Desensitised explosives***

Data for the substance are not available.

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

## **Potassium hydroxide**

CAS: 1310-58-3

### ***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***

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.

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### ***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.  
The 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 classified as corrosive to metal category 1.

### ***Desensitised explosives***

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

### **9.2.2. Other safety characteristics**

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

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

### **10.1. Reactivity**

The mixture is stable under normal conditions of use. There aren't any hazardous reaction.

### **10.2. Chemical stability**

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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 oxidising agents, acids. Mixture is corrosive to metals.

### 10.6. Hazardous decomposition products

They do not form under normal use. Burning releases carbon oxides 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 does not contain relevant substances classified as an acute toxicity by oral route of exposure or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

##### Dermal

Data for the mixture are not available.

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

##### Inhalation

Data for the mixture are not available.

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

#### Skin corrosion/irritation

Data for the mixture are not available.

The mixture is classified as 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

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## POWER Alk

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.

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).

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**



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Substance is classified as serious eye damage.

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.

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<sup>2</sup>/s or less at 40 °C.

**Potassium hydroxide**

CAS: 1310-58-3

### **Acute toxicity**

**Oral** The substance is classified in category 4.  
LD<sub>50</sub> = 333 (male, conventional method).  
LD<sub>50</sub> = 388 (male, up-and-down procedure).

**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.

10% solution is strongly corrosive (reconstructed human epidermis, OECD 431).

5% solution is strongly corrosive (reconstructed human epidermis, OECD 431).

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

Substance is classified as serious eye damage.

5% solution is extremely irritant and corrosive, 1% solution is irritant, 0.5% solution is marginal irritant, 0.1% solution is not irritant (rabbit, OECD 405).

### **Respiratory or skin sensitization**

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

Not skin sensitising (guinea pig, intracutaneous test).

### **Germ cell mutagenicity**

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

Negative (Ames test).

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

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

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

## **SECTION 12: Ecological information**

### **12.1. Toxicity**

#### **Mixture**

Data for the mixture are not available.

#### **Acute aquatic toxicity**

The mixture does not contain relevant 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 relevant 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<sub>50</sub>, 48 hrs, *Leuciscus idus*: 189 mg/l (mortality).

#### **Crustaceans**

EC<sub>50</sub>, 48 hrs, *Ceriodaphnia* sp.: 40.4 mg/l (immobility).

#### **Algae**

Data for the substance are not available.

#### **Potassium hydroxide**

CAS: 1310-58-3

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## POWER AIK

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

### **Fish**

LC<sub>50</sub>, 96 hrs., Gambusia affinis: 80 mg/l (mortality).  
NOEC, 96 hrs., Gambusia affinis: 56 mg/l (mortality).

### **Crustaceans**

Data for the substance are not available.

### **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.

### **Potassium hydroxide**

CAS: 1310-58-3

Not determined, it is an inorganic substance.

## **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.

### **Potassium hydroxide**

CAS: 1310-58-3

Not determined, it is an inorganic substance.

## **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.

### **Potassium hydroxide**

CAS: 1310-58-3

Not determined, it is an inorganic substance.

## **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**

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## POWER AIK

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**

EN 20 01 29\* - Detergents containing dangerous substances, 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, Potassium 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

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## POWER AIK

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 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     |

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|               |  |
|---------------|--|
| 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**

|                |   |
|----------------|---|
| 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. <b>Dispose of the cleaned packaging without any residual product content in the sorted waste.</b> |

### **Training advice**

According to SDS.



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## POWER Aik

### ***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.