



# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:  
Regulation (EC) No. 1907/2006 as amended by Regulation (EU) No. 2020/878, and  
Regulation (EC) No. 1272/2008

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Revision Number 1

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

### 1.1. Product identifier

**Product Code(s)** 2405; 2415; 2455; 24265  
**Product Name** Keylajet® Low-Foaming Chelating Alkaline Detergent  
**Unique Formula Identifier (UFI)** UC90-G0WS-800G-5JM3  
**Synonyms** None  
**Pure substance/mixture** Mixture

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

**Recommended use** Cleaning agent; Detergent  
**Uses advised against** Do not mix with other detergents unless otherwise specified

### 1.3. Details of the supplier of the safety data sheet

#### Supplier

Alconox Inc.  
30 Glenn St., Suite 309  
White Plains, NY 10603 USA  
914-948-4040

#### For further information, please contact

**E-mail address** cleaning@alconox.com

### 1.4. Emergency telephone number

**Emergency telephone** ChemTel Inc.: North America: 1-888-255-3924  
International: +1-813-248-0573

#### Emergency telephone - §45 - (EC)1272/2008

|        |     |
|--------|-----|
| Europe | 112 |
|--------|-----|

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

|                                 |                                    |
|---------------------------------|------------------------------------|
| <b>Skin corrosion</b>           | Category 1 Sub-category B - (H314) |
| <b>Serious eye damage</b>       | Category 1 - (H318)                |
| <b>Chronic aquatic toxicity</b> | Category 3 - (H412)                |

### 2.2. Label elements

Contains Potassium hydroxide; Sodium hydroxide; Octenylsuccinic acid

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**Signal word**  
Danger

**Hazard statements**

H314 - Causes severe skin burns and eye damage.  
H412 - Harmful to aquatic life with long lasting effects.

**Precautionary Statements - EU (§28, 1272/2008)**

P260 - Do not breathe dust/fume/gas/mist/vapours/spray.  
P280 - Wear protective gloves/protective clothing and eye/face protection.  
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 - Immediately call a POISON CENTER or doctor.  
P321 - Specific treatment (see supplemental first aid instructions on this label).

33.6625 % of the mixture consists of ingredient(s) of unknown acute toxicity.

**Unknown aquatic toxicity** Contains 0 % of components with unknown hazards to the aquatic environment.

**Additional information**

This product requires child resistant fastenings if supplied to the general public. This product requires tactile warnings if supplied to the general public.

**2.3. Other hazards**

**Other hazards** No information available.

**PBT & vPvB** The product does not contain any substance(s) classified as PBT or vPvB

**Endocrine Disruptor Information** This product does not contain any known or suspected endocrine disruptors.

**SECTION 3: Composition/information on ingredients**

**3.1 Substances**

Not applicable

**3.2 Mixtures**

| Chemical name                    | Weight-% | REACH registration number | EC No (EU Index No)         | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Specific concentration limit (SCL)   | M-Factor | M-Factor (long-term) |
|----------------------------------|----------|---------------------------|-----------------------------|---|--|----------|----------------------|
| Potassium hydroxide<br>1310-58-3 | 10-30    | 01-211948713<br>6-33-XXXX | 215-181-3<br>(019-002-00-8) | Acute Tox. 4<br>(H302)<br>Skin Corr. 1A<br>(H314)               | Eye Irrit. 2 ::<br>0.5%≤C<2%<br>Skin Corr. 1A ::<br>C≥5%<br>Skin Corr. 1B ::<br>2%≤C<5%<br>Skin Irrit. 2 ::<br>0.5%≤C<2% | -        | -                    |
| Sodium hydroxide                 | 3-7      | No data                   | 215-185-5                   | Skin Corr. 1A   | Eye Irrit. 2 ::  | -        | -                    |

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|                                    |     |                      |                             |  |   |   |   |
|------------------------------------|-----|----------------------|-----------------------------|--|---|---|---|
| 1310-73-2                          |     | available            | (011-002-00-6)              | (H314)   | 0.5%≤C<2%<br>Skin Corr. 1A ::<br>C≥5%<br>Skin Corr. 1B ::<br>2%≤C<5%<br>Skin Irrit. 2 ::<br>0.5%≤C<2% |   |   |
| Tetrasodium EDTA<br>64-02-8        | 3-7 | No data<br>available | 200-573-9<br>(607-428-00-2) | Acute Tox. 4<br>(H302)<br>Eye Dam. 1<br>(H318) | -   | - | - |
| Octenylsuccinic acid<br>28805-58-5 | 1-5 | No data<br>available | 249-244-1                   | Skin Corr. 1<br>(H314)<br>Eye Dam. 1<br>(H318) | -   | - | - |

**Full text of H- and EUH-phrases: see section 16**

Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

| Chemical name                    | Oral LD50 mg/kg | Dermal LD50 mg/kg | Inhalation LC50 - 4<br>hour - dust/mist -<br>mg/L | Inhalation LC50 - 4<br>hour - vapour - mg/L | Inhalation LC50 - 4<br>hour - gas - ppm |
|----------------------------------|-----------------|-------------------|---|---|---|
| Potassium hydroxide<br>1310-58-3 | 284             | No data available | No data available                                 | No data available                           | No data available                       |
| Sodium hydroxide<br>1310-73-2    | 325             | 1350              | No data available                                 | No data available                           | No data available                       |
| Tetrasodium EDTA<br>64-02-8      | 1658            | No data available | No data available                                 | No data available                           | No data available                       |

This product does not contain candidate substances of very high concern at a concentration ≥0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|   |   |
|---|---|
| <b>General advice</b>                     | Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.   |
| <b>Inhalation</b>                         | Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get immediate medical attention. |
| <b>Eye contact</b>                        | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical attention.   |
| <b>Skin contact</b>                       | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get immediate medical attention.  |
| <b>Ingestion</b>                          | Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get immediate medical attention.  |
| <b>Self-protection of the first aider</b> | Ensure that medical personnel are aware of the material(s) involved, take precautions to  |
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protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Wear personal protective clothing (see section 8).

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

|                            |                           |
|----------------------------|---------------------------|
| <b>Symptoms</b>            | Burning sensation.        |
| <b>Effects of Exposure</b> | No information available. |

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

|                        |   |
|------------------------|---|
| <b>Note to doctors</b> | Product is a corrosive material. Use of gastric lavage or emesis is contra-indicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. |
|------------------------|---|

### **SECTION 5: Firefighting measures**

#### **5.1. Extinguishing media**

|                                       |   |
|---------------------------------------|---|
| <b>Suitable Extinguishing Media</b>   | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| <b>Unsuitable extinguishing media</b> | No information available.   |

#### **5.2. Special hazards arising from the substance or mixture**

|   |   |
|---|---|
| <b>Specific hazards arising from the chemical</b> | The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapours. |
|---|---|

#### **5.3. Advice for firefighters**

|   |  |
|---|--|
| <b>Special protective equipment and precautions for fire-fighters</b> | Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. |
|---|--|

### **SECTION 6: Accidental release measures**

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

|                                 |   |
|---------------------------------|---|
| <b>Personal precautions</b>     | Attention! Corrosive material. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. |
| <b>Other information</b>        | Refer to protective measures listed in Sections 7 and 8.  |
| <b>For emergency responders</b> | Use personal protection recommended in Section 8.   |

#### **6.2. Environmental precautions**

|                                  |   |
|----------------------------------|---|
| <b>Environmental precautions</b> | Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains. |
|----------------------------------|---|

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

|  |  |
|--|--|
| <b>Methods for containment</b>         | Prevent further leakage or spillage if safe to do so.                                |
| <b>Methods for cleaning up</b>         | Take up mechanically, placing in appropriate containers for disposal.                |
| <b>Prevention of secondary hazards</b> | Clean contaminated objects and areas thoroughly observing environmental regulations. |

#### **6.4. Reference to other sections**

|                                    |  |
|------------------------------------|--|
| <b>Reference to other sections</b> | See section 8 for more information See section 13 for more information |
|------------------------------------|--|

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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse.

#### General hygiene considerations

Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

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

#### Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture. Store locked up. Keep out of the reach of children. Store away from other materials.

#### Storage class (TRGS 510)

LGK 8A.

### 7.3. Specific end use(s)

#### Specific use(s)

The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure Limits

| Chemical name                    | European Union               | Austria  | Belgium                      | Bulgaria  | Croatia   |
|----------------------------------|------------------------------|--|------------------------------|---|---|
| Potassium hydroxide<br>1310-58-3 | -                            | TWA: 2 mg/m <sup>3</sup>                                 | -                            | TWA: 2.0 mg/m <sup>3</sup>                            | STEL: 2 mg/m <sup>3</sup>                               |
| Sodium hydroxide<br>1310-73-2    | -                            | TWA: 2 mg/m <sup>3</sup><br>STEL 4 mg/m <sup>3</sup>     | TWA: 2 mg/m <sup>3</sup>     | TWA: 2.0 mg/m <sup>3</sup>                            | STEL: 2 mg/m <sup>3</sup>                               |
| Chemical name                    | Cyprus                       | Czech Republic   | Denmark                      | Estonia   | Finland   |
| Potassium hydroxide<br>1310-58-3 | -                            | TWA: 1 mg/m <sup>3</sup><br>Ceiling: 2 mg/m <sup>3</sup> | STEL: 2 mg/m <sup>3</sup>    | TWA: 2 mg/m <sup>3</sup>                              | Ceiling: 2 mg/m <sup>3</sup>                            |
| Sodium hydroxide<br>1310-73-2    | -                            | TWA: 1 mg/m <sup>3</sup><br>Ceiling: 2 mg/m <sup>3</sup> | Ceiling: 2 mg/m <sup>3</sup> | TWA: 1 mg/m <sup>3</sup><br>STEL: 2 mg/m <sup>3</sup> | Ceiling: 2 mg/m <sup>3</sup>                            |
| Chemical name                    | France                       | Germany TRGS   | Germany DFG                  | Greece  | Hungary   |
| Potassium hydroxide<br>1310-58-3 | STEL: 2 mg/m <sup>3</sup>    | -  | -                            | TWA: 2 mg/m <sup>3</sup><br>STEL: 2 mg/m <sup>3</sup> | TWA: 2 mg/m <sup>3</sup><br>STEL: 2 mg/m <sup>3</sup>   |
| Sodium hydroxide<br>1310-73-2    | TWA: 2 mg/m <sup>3</sup>     | -  | -                            | TWA: 2 mg/m <sup>3</sup><br>STEL: 2 mg/m <sup>3</sup> | TWA: 1 mg/m <sup>3</sup><br>STEL: 2 mg/m <sup>3</sup>   |
| Chemical name                    | Ireland                      | Italy MDLPS  | Italy AIDII                  | Latvia  | Lithuania   |
| Potassium hydroxide<br>1310-58-3 | STEL: 2 mg/m <sup>3</sup>    | -  | Ceiling: 2 mg/m <sup>3</sup> | -   | -   |
| Sodium hydroxide<br>1310-73-2    | STEL: 2 mg/m <sup>3</sup>    | -  | Ceiling: 2 mg/m <sup>3</sup> | TWA: 0.5 mg/m <sup>3</sup>                            | Ceiling: 2 mg/m <sup>3</sup>                            |
| Chemical name                    | Luxembourg                   | Malta  | Netherlands                  | Norway  | Poland  |
| Potassium hydroxide<br>1310-58-3 | -                            | -  | -                            | Ceiling: 2 mg/m <sup>3</sup>                          | TWA: 0.5 mg/m <sup>3</sup><br>STEL: 1 mg/m <sup>3</sup> |
| Sodium hydroxide<br>1310-73-2    | -                            | -  | -                            | Ceiling: 2 mg/m <sup>3</sup>                          | TWA: 0.5 mg/m <sup>3</sup><br>STEL: 1 mg/m <sup>3</sup> |
| Chemical name                    | Portugal                     | Romania  | Slovakia                     | Slovenia  | Spain   |
| Potassium hydroxide              | Ceiling: 2 mg/m <sup>3</sup> | TWA: 1 mg/m <sup>3</sup>                                 | -                            | -   | STEL: 2 mg/m <sup>3</sup>                               |

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|                                  |   |   |   |   |                           |
|----------------------------------|---|---|---|---|---------------------------|
| 1310-58-3                        |   | STEL: 3 mg/m <sup>3</sup>                             |   |   |                           |
| Sodium hydroxide<br>1310-73-2    | Ceiling: 2 mg/m <sup>3</sup>                                  | TWA: 1 mg/m <sup>3</sup><br>STEL: 3 mg/m <sup>3</sup> | TWA: 2 mg/m <sup>3</sup>                              | - | STEL: 2 mg/m <sup>3</sup> |
| Chemical name                    | Sweden  |   | Switzerland   |   | United Kingdom            |
| Potassium hydroxide<br>1310-58-3 | NGV: 1 mg/m <sup>3</sup><br>Bindande KGV: 2 mg/m <sup>3</sup> |   | TWA: 2 mg/m <sup>3</sup>                              |   | STEL: 2 mg/m <sup>3</sup> |
| Sodium hydroxide<br>1310-73-2    | NGV: 1 mg/m <sup>3</sup><br>Bindande KGV: 2 mg/m <sup>3</sup> |   | TWA: 2 mg/m <sup>3</sup><br>STEL: 2 mg/m <sup>3</sup> |   | STEL: 2 mg/m <sup>3</sup> |

**Biological occupational exposure limits**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

**Derived No Effect Level (DNEL) - Workers**

| Chemical name                    | Oral | Dermal | Inhalation                  |
|----------------------------------|------|--------|-----------------------------|
| Potassium hydroxide<br>1310-58-3 | -    | -      | 1 mg/m <sup>3</sup> [5] [6] |
| Sodium hydroxide<br>1310-73-2    | -    | -      | 1 mg/m <sup>3</sup> [5] [6] |

**Notes**

[4] Systemic health effects.  
[5] Local health effects.  
[6] Long term.

**Derived No Effect Level (DNEL) - General Public**

| Chemical name                    | Oral | Dermal | Inhalation                  |
|----------------------------------|------|--------|-----------------------------|
| Potassium hydroxide<br>1310-58-3 | -    | -      | 1 mg/m <sup>3</sup> [5] [6] |
| Sodium hydroxide<br>1310-73-2    | -    | -      | 1 mg/m <sup>3</sup> [5] [6] |

**Notes**

[4] Systemic health effects.  
[5] Local health effects.  
[6] Long term.

**8.2. Exposure controls****Engineering controls**

Showers  
Eyewash stations  
Ventilation systems.

**Personal protective equipment****Eye/face protection**

Tight sealing safety goggles. Face protection shield. Eye protection must conform to standard EN 166.

**Hand protection**

Wear suitable gloves. Impervious gloves. Gloves must conform to standard EN 374.

**Skin and body protection**

(EN ISO 6529). Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.

**Respiratory protection**

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations**

Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do

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not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

**Environmental exposure controls** No information available.

## SECTION 9: Physical and chemical properties

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

|                        |                                  |
|------------------------|----------------------------------|
| <b>Appearance</b>      | Transparent, Light yellow liquid |
| <b>Physical state</b>  | Liquid                           |
| <b>Colour</b>          | No information available         |
| <b>Odour</b>           | No information available         |
| <b>Odour threshold</b> | No information available         |

| <u>Property</u>                                | <u>Values</u> | <u>Remarks • Method</u> |
|--|---------------|-------------------------|
| <b>Melting point / freezing point</b>          |               | No data available       |
| <b>Initial boiling point and boiling range</b> |               | No data available       |
| <b>Flammability</b>                            |               | No data available       |
| <b>Flammability Limit in Air</b>               |               |                         |
| <b>Upper flammability or explosive limits</b>  |               | No data available       |
| <b>Lower flammability or explosive limits</b>  |               | No data available       |
| <b>Flash point</b>                             | > 200 °C      | No data available       |
| <b>Autoignition temperature</b>                |               | No data available       |
| <b>Decomposition temperature</b>               |               | No data available       |
| <b>pH</b>                                      | 13            | 1% aqueous solution     |
| <b>pH (as aqueous solution)</b>                |               | No data available       |
| <b>Kinematic viscosity</b>                     |               | No data available       |
| <b>Dynamic viscosity</b>                       |               | No data available       |
| <b>Water solubility</b>                        |               | Soluble in water        |
| <b>Solubility(ies)</b>                         |               | No data available       |
| <b>Partition coefficient</b>                   |               | No data available       |
| <b>Vapour pressure</b>                         |               | No data available       |
| <b>Relative density</b>                        |               | No data available       |
| <b>Bulk density</b>                            |               | No data available       |
| <b>Liquid Density</b>                          |               | No data available       |
| <b>Relative vapour density</b>                 |               | No data available       |
| <b>Particle characteristics</b>                |               |                         |
| <b>Particle Size</b>                           |               | No data available       |
| <b>Particle Size Distribution</b>              |               | No data available       |

### 9.2. Other information

**VOC content** 0%

9.2.1. Information with regards to physical hazard classes  
Not applicable

9.2.2. Other safety characteristics  
No information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity** None under normal use conditions.

### 10.2. Chemical stability

**Stability** Stable under normal conditions.

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**Explosion data**

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

**10.3. Possibility of hazardous reactions**

Possibility of hazardous reactions None under normal processing.

**10.4. Conditions to avoid**

Conditions to avoid Exposure to air or moisture over prolonged periods.

**10.5. Incompatible materials**

Incompatible materials Acids. Bases. Oxidising agent.

**10.6. Hazardous decomposition products**

Hazardous decomposition products None known based on information supplied.

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Information on likely routes of exposure****Product Information**

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | Specific test data for the substance or mixture is not available. Corrosive by inhalation. (based on components). Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs. Pulmonary edema can be fatal.                                   |
| <b>Eye contact</b>  | Specific test data for the substance or mixture is not available. Causes serious eye damage. (based on components). Corrosive to the eyes and may cause severe damage including blindness. May cause irreversible damage to eyes.   |
| <b>Skin contact</b> | On basis of test data: Specific test data for the substance or mixture is not available. Corrosive. (based on components). Causes burns.  |
| <b>Ingestion</b>    | Specific test data for the substance or mixture is not available. Causes burns. (based on components). Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung damage if swallowed. May be fatal if swallowed and enters airways. |

**Symptoms related to the physical, chemical and toxicological characteristics**

Symptoms Redness. Burning. May cause blindness. Coughing and/ or wheezing.

**Acute toxicity****Numerical measures of toxicity**

The following values are calculated based on chapter 3.1 of the GHS document:

ATEmix (dermal) 12,310.10 mg/kg

ATEmix (inhalation-dust/mist) 15.70 mg/l

Oral LD50 &gt; 5000 mg/kg

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**Component Information**

| Chemical name       | Oral LD50            | Dermal LD50             | Inhalation LC50 |
|---------------------|----------------------|-------------------------|-----------------|
| Potassium hydroxide | = 284 mg/kg ( Rat )  | -                       | -               |
| Sodium hydroxide    | = 325 mg/kg ( Rat )  | = 1350 mg/kg ( Rabbit ) | -               |
| Tetrasodium EDTA    | = 1658 mg/kg ( Rat ) | -                       | -               |

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

|  |  |
|--|--|
| <b>Skin corrosion/irritation</b>         | On basis of test data: Causes severe skin burns and eye damage.                                  |
| <b>Serious eye damage/eye irritation</b> | Classification based on data available for ingredients. Causes serious eye damage. Causes burns. |
| <b>Respiratory or skin sensitisation</b> | Based on available data, the classification criteria are not met.                                |
| <b>Germ cell mutagenicity</b>            | Based on available data, the classification criteria are not met.                                |
| <b>Carcinogenicity</b>                   | Based on available data, the classification criteria are not met.                                |
| <b>Reproductive toxicity</b>             | Based on available data, the classification criteria are not met.                                |
| <b>STOT - single exposure</b>            | Based on available data, the classification criteria are not met.                                |
| <b>STOT - repeated exposure</b>          | Based on available data, the classification criteria are not met.                                |
| <b>Aspiration hazard</b>                 | Based on available data, the classification criteria are not met.                                |

**11.2. Information on other hazards****11.2.1. Endocrine disrupting properties**

**Endocrine disrupting properties** This product does not contain any known or suspected endocrine disruptors.

**11.2.2. Other information**

**Other adverse effects** No information available.

**SECTION 12: Ecological information****12.1. Toxicity**

**Ecotoxicity** Harmful to aquatic life with long lasting effects.

**Unknown aquatic toxicity** Contains 0 % of components with unknown hazards to the aquatic environment.

| Chemical name                 | Algae/aquatic plants | Fish   | Toxicity to microorganisms | Crustacea |
|-------------------------------|----------------------|--|----------------------------|-----------|
| Sodium hydroxide<br>1310-73-2 | -                    | LC50: =45.4mg/L (96h,<br>Oncorhynchus mykiss)  | -                          | -         |
| Tetrasodium EDTA<br>64-02-8   | -                    | LC50: =41mg/L (96h,<br>Lepomis macrochirus)<br>LC50: =59.8mg/L (96h,<br>Pimephales promelas) | -                          | -         |

**12.2. Persistence and degradability**

**Persistence and degradability** No information available.

**12.3. Bioaccumulative potential**

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**Bioaccumulation****Component Information**

| Chemical name       | Partition coefficient |
|---------------------|-----------------------|
| Potassium hydroxide | 0.83                  |

**12.4. Mobility in soil**

**Mobility in soil** No information available.

**12.5. Results of PBT and vPvB assessment**

**PBT and vPvB assessment** The product does not contain any substance(s) classified as PBT or vPvB.

| Chemical name                    | PBT and vPvB assessment         |
|----------------------------------|---------------------------------|
| Potassium hydroxide<br>1310-58-3 | The substance is not PBT / vPvB |
| Sodium hydroxide<br>1310-73-2    | The substance is not PBT / vPvB |
| Tetrasodium EDTA<br>64-02-8      | The substance is not PBT / vPvB |

**12.6. Endocrine disrupting properties**

**Endocrine disrupting properties** This product does not contain any known or suspected endocrine disruptors.

**12.7. Other adverse effects**

**Other adverse effects** No information available.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

**Waste codes / waste designations according to EWC / AVV** According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

**SECTION 14: Transport information****IMDG**

- 14.1 UN number or ID number** UN1760  
**14.2 UN proper shipping name** CORROSIVE LIQUID, N.O.S. (Potassium hydroxide, Sodium hydroxide)  
**14.3 Transport hazard class(es)** 8  
**14.4 Packing group** II  
**Description** UN1760, CORROSIVE LIQUID, N.O.S. (Potassium hydroxide, Sodium hydroxide), 8, II  
**14.5 Environmental hazards** No  
**14.6 Special Precautions for Users**  
**Special Provisions** 274  
**EmS-No.** F-A, S-B  
**14.7 Maritime transport in bulk according to IMO instruments** No information available

**RID**

- 14.1 UN number or ID number** UN1760

**(M)SDS Number** UL-NOX-012

|                                    |   |
|------------------------------------|---|
| 14.2 UN proper shipping name       | CORROSIVE LIQUID, N.O.S. (Potassium hydroxide, Sodium hydroxide)                |
| 14.3 Transport hazard class(es)    | 8   |
| 14.4 Packing group                 | II  |
| Description                        | UN1760, CORROSIVE LIQUID, N.O.S. (Potassium hydroxide, Sodium hydroxide), 8, II |
| 14.5 Environmental hazards         | No  |
| 14.6 Special Precautions for Users |   |
| Special Provisions                 | 274   |
| Classification code                | C9  |

**ADR**

|                                    |   |
|------------------------------------|---|
| 14.1 UN number or ID number        | UN1760  |
| 14.2 UN proper shipping name       | CORROSIVE LIQUID, N.O.S. (Potassium hydroxide, Sodium hydroxide)                |
| 14.3 Transport hazard class(es)    | 8   |
| 14.4 Packing group                 | II  |
| Description                        | UN1760, CORROSIVE LIQUID, N.O.S. (Potassium hydroxide, Sodium hydroxide), 8, II |
| 14.5 Environmental hazards         | No  |
| 14.6 Special Precautions for Users |   |
| Special Provisions                 | 274   |
| Classification code                | C9  |
| Tunnel restriction code            | (E)   |

**ADN**

|                                    |   |
|------------------------------------|---|
| 14.1 UN/ID no                      | UN1760  |
| 14.2 EPNN                          | CORROSIVE LIQUID, N.O.S. (Potassium hydroxide, Sodium hydroxide)                |
| 14.3 Transport hazard class(es)    | 8   |
| 14.4 Packing group                 | II  |
| Description                        | UN1760, CORROSIVE LIQUID, N.O.S. (Potassium hydroxide, Sodium hydroxide), 8, II |
| 14.5 Environmental hazard          | No  |
| 14.6 Special Precautions for Users |   |
| Special Provisions                 | 274   |
| Classification code                | C9  |
| Equipment Requirements             | PP, EP  |

**IATA**

|                                    |   |
|------------------------------------|---|
| 14.1 UN number or ID number        | UN1760  |
| 14.2 UN proper shipping name       | Corrosive liquid, n.o.s. (Potassium hydroxide, Sodium hydroxide)                |
| 14.3 Transport hazard class(es)    | 8   |
| 14.4 Packing group                 | II  |
| Description                        | UN1760, Corrosive liquid, n.o.s. (Potassium hydroxide, Sodium hydroxide), 8, II |
| 14.5 Environmental hazards         | No  |
| 14.6 Special Precautions for Users |   |
| Special Provisions                 | A3, A803  |
| ERG Code                           | 8L  |
| Note:                              | None  |

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations****Germany**

Water hazard class (WGK) slightly hazardous to water (WGK 1)

**European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

**Authorisations and/or restrictions on use:**

(M)SDS Number UL-NOX-012

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

| Chemical name                   | Restricted substance per REACH Annex XVII | Substance subject to authorisation per REACH Annex XIV |
|---------------------------------|---|--|
| Potassium hydroxide - 1310-58-3 | Use restricted. See entry 75.             | -  |
| Sodium hydroxide - 1310-73-2    | 75.                                       | -  |
| Tetrasodium EDTA - 64-02-8      | Use restricted. See entry 75.             | -  |

#### Persistent Organic Pollutants

Not applicable

#### Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

#### International Inventories

Contact supplier for inventory compliance status

#### 15.2. Chemical safety assessment

##### Chemical Safety Report

No information available

### SECTION 16: Other information

#### Key or legend to abbreviations and acronyms used in the safety data sheet

#### Full text of H-Statements referred to under section 3

H302 - Harmful if swallowed

H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage

#### Legend

SVHC: Substances of Very High Concern for Authorisation:

PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances

vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances

STOT: Specific Target Organ Toxicity

ATE: Acute Toxicity Estimate

LC50: 50% Lethal Concentration

LD50: 50% Lethal Dose

#### Legend Section 8: Exposure controls/personal protection

TWA TWA (time-weighted average)

Ceiling Maximum limit value

SCBA Self-contained breathing apparatus

STEL

Sk\*

STEL (Short Term Exposure Limit)

Skin designation

| Classification procedure  |                       |
|---|-----------------------|
| Classification according to Regulation (EC) No. 1272/2008 [CLP] | Method Used           |
| Acute oral toxicity   | On basis of test data |
| Acute dermal toxicity   | Calculation method    |
| Acute inhalation toxicity - gas                                 | Calculation method    |
| Acute inhalation toxicity - vapour                              | Calculation method    |
| Acute inhalation toxicity - dust/mist                           | Calculation method    |
| Skin corrosion/irritation                                       | On basis of test data |
| Serious eye damage/eye irritation                               | Calculation method    |
| Respiratory sensitisation                                       | Calculation method    |
| Skin sensitisation  | Calculation method    |
| Mutagenicity  | Calculation method    |
| Carcinogenicity   | Calculation method    |

(M)SDS Number **UL-NOX-012**

|                          |                    |
|--------------------------|--------------------|
| Reproductive toxicity    | Calculation method |
| STOT - single exposure   | Calculation method |
| STOT - repeated exposure | Calculation method |
| Acute aquatic toxicity   | Calculation method |
| Chronic aquatic toxicity | Calculation method |
| Aspiration hazard        | Calculation method |
| Ozone                    | Calculation method |

**Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)  
U.S. Environmental Protection Agency ChemView Database  
European Food Safety Authority (EFSA)  
European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA\_RAC)  
European Chemicals Agency (ECHA) (ECHA\_API)  
Environmental Protection Agency  
Acute Exposure Guideline Level(s) (AEGL(s))  
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
U.S. Environmental Protection Agency High Production Volume Chemicals  
Food Research Journal  
Hazardous Substance Database  
International Uniform Chemical Information Database (IUCLID)  
Japan GHS Classification  
Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
NIOSH (National Institute for Occupational Safety and Health)  
National Library of Medicine's ChemID Plus (NLM CIP)  
National Library of Medicine's PubMed database (NLM PUBMED)  
U.S. National Toxicology Program (NTP)  
New Zealand's Chemical Classification and Information Database (CCID)  
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications  
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme  
Organisation for Economic Co-operation and Development Screening Information Data Set  
World Health Organization

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**This safety data sheet complies with the requirements of Commission Regulation (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No. 1907/2006**

**Disclaimer**

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**End of Safety Data Sheet**